

GRC TRAINING: BUSINESS SYSTEMS ANALYSTS (IS&T)



Table of Contents

GRC ROLES & RESPONSIBILITIES – BUSINESS SYSTEM ANALYSTS	3
RESPONSIBILITIES REFERENCE.....	3
SAP SECURITY AND GOVERNANCE PROCEDURES	4
PROCESS 1: NEW OR AMENDED ROLES.....	6
PROCESS 2: MITIGATION ANALYSIS.....	18
PROCESS 3: NEW USERS AND USER ROLE PROVISIONING	28
PROCESS 4: FIREFIGHTER USERS AND ROLES	34
PROCESS 5: PERIODIC COMPLIANCE REVIEWS.....	47
GRC REPORTING	55
JOB AIDS	56
<i>Job Aid 01 Risk Violations</i>	<i>58</i>
<i>Job Aid 02 User Analysis</i>	<i>77</i>
<i>Job Aid 03 Violations Comparisons</i>	<i>94</i>
<i>Job Aid 04 Access Rule Library</i>	<i>103</i>
<i>Job Aid 05 SUIM Roles by Role Name</i>	<i>113</i>
<i>Job Aid 06 User to Role Relationship</i>	<i>123</i>
<i>Job Aid 07 Role Relationship with User - User Group</i>	<i>137</i>
<i>Job Aid 08 SUIM Users by User ID</i>	<i>153</i>
<i>Job Aid 09 Count Authorizations for Users</i>	<i>161</i>
<i>Job Aid 10 Action Usage by User Role and Profile</i>	<i>175</i>
<i>Job Aid 11 Mitigation Control Report</i>	<i>201</i>
<i>Job Aid 12 User Level</i>	<i>206</i>
<i>Job Aid 13 User Level Simulation</i>	<i>248</i>
<i>Job Aid 14 Role Level</i>	<i>278</i>
<i>Job Aid 15 Role Level Simulation</i>	<i>289</i>
<i>Job Aid 16 Profile Level</i>	<i>317</i>
<i>Job Aid 17 Profile Level Simulation</i>	<i>328</i>
REFERENCE AIDS.....	359
<i>Reference R1 Access GRC Reporting.....</i>	<i>361</i>
<i>Reference R2 Add or Remove Search Lines to a Report</i>	<i>370</i>
<i>Reference R3 Search for Input Values</i>	<i>372</i>
<i>Reference R4 Save a Variant.....</i>	<i>377</i>
<i>Reference R5 Execute a Background Job</i>	<i>380</i>
<i>Reference R6 Filter a Report</i>	<i>389</i>
<i>Reference R7 Change Your Report View</i>	<i>391</i>
<i>Reference R8 Export Data from GRC</i>	<i>399</i>
<i>Reference R9 Simple Sort.....</i>	<i>401</i>
GRC TERMINOLOGY	402
GRC ROLES & RESPONSIBILITIES.....	412
GRC SOD ANALYSIS STEPS.....	417
GRC FORMS	424
EXAMPLE FORM A: GRC MITIGATION CONTROL CHANGE REQUEST	425
EXAMPLE FORM B: GRC FIREFIGHTER CHANGE REQUEST	428
EXAMPLE FORM C: SAP USER OR ROLE CHANGE CHECKLIST.....	431
GRC CHANGE EVENTS	436

GRC Roles & Responsibilities – Business System Analysts

Business System Analysts (BSAs) will carry out the following tasks as part of their GRC-related responsibilities:

- Assist the Role Owner and Risk Owner with:
 - Analysis of changes to risks due to changes in roles or user/role assignments
 - Redesign of Roles in terms of business-relevant information and Single vs Composite role design
 - Understanding the Risk – i.e. what the SAP access allows and if there are any additional technical features which are being used , or can be used, to reduce / mitigate the risk – this includes configuration settings, MIT enhancements, additional access security.
- When there are new “Z” transactions, the BSA will assist in categorizing to the closest standard SAP action. The GRC Admin group will add these to the ruleset in the same place as that standard SAP action.
- Assist the BA to document the new / changed role design and communicate it to the SAP R/3 Security Admin group. Potentially assist in the initial role testing.
- Assist the BA with documenting any technical Mitigation Controls
- Prepare mini-specs for any new mitigation controls which require technical work (configuration settings, MIT enhancements, additional access security, and new SAP control reports).

Responsibilities Reference

TASKS	PROCESS & STEP
Analysis of Risks related to user access	1.2, 1.3, 2.1
User role redesign and test plan	1.4
Review for SOD issues from periodic ARA review	5 Q.2
Definition of Mitigation controls	2.2, 2.3
Assist with testing new or changed roles	1.7, 1.11

REPORTS	PROCESS
05 Roles by Role Name	1
06 User to Role Relationship	1
07 Role Relationship with User - User Group	1
08 Users by User ID	1
09 Count Authorizations for Users	1
10 Action Usage by User Role and Profile	1
11 Mitigation Control Report	2
12 User Level	1, 2
13 User Level Simulation	1, 2

FORMS	PROCESS & STEP
None	None

WORKFLOW OR EMAIL-TRIGGERED ACTIONS	PROCESS & STEP
None	None

SAP Security and Governance Procedures

PURPOSE OF THIS DOCUMENT

The SAP Security and Governance Procedures are documented in five flowcharts. The sections in this document describe the details of each step.

CONTENTS

Process 1: New or Amended Roles

Process 2: Mitigation Analysis

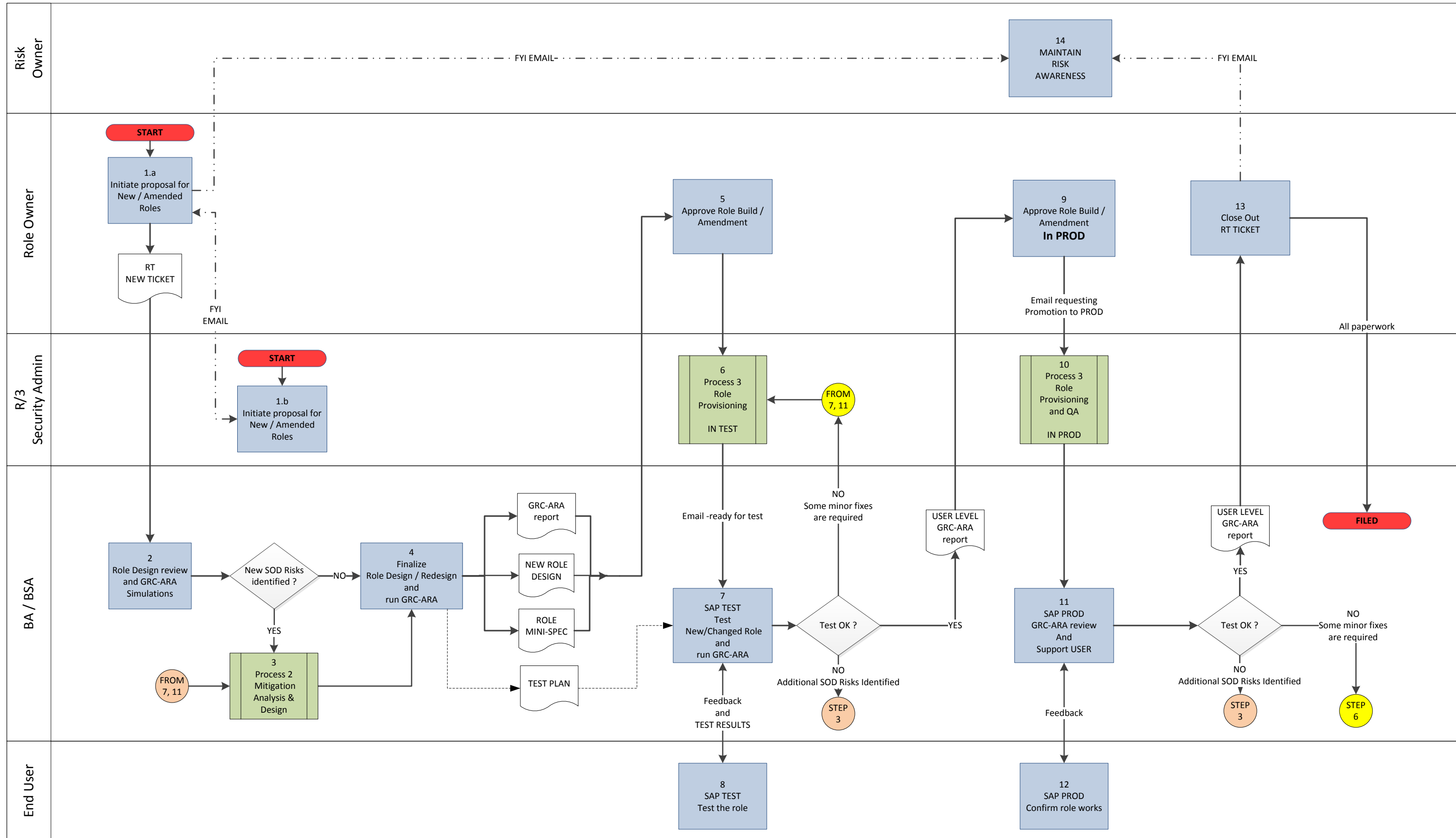
Process 3: New Users and User Role Provisioning

Process 4: FireFighter Users and Roles

Process 5: Periodic Compliance Reviews

Process 1: New or Amended Roles

MIT SAP Security & GRC Process : 1. New or Amended Roles



Process 1: New or Amended Roles

The “New or Amended Role” process is for the scenario where a new or amended business role is needed, and includes the high-level steps for initial investigation, design, development and GRC Access Risk assessment.

The requirement SAP Access Role maintenance can be identified during the following business events, with the first two being the most frequent and represented in the flowchart. The process for the other triggering events is almost the same, with any differences documented in the text.

1. Departmental reorganization.
2. New or changed job duties within a department.
3. New SAP functionality which is not expected to be included in common roles but is needed for several users with different access and does fit into an existing role. This may be :
 - Small changes, for extra functionality in existing applications
 - Larger, project-related changes where a whole new application is rolled-out, and probably multiple SAP Access roles.
4. Audits, Compliance and other reviews – this would be less common.
5. SAP Access role redesign / tidy-up (triggered from technical reviews).
6. Removal of functionality from roles – (no SOD risk issues).

Roles & Responsibilities for Process 1:

- **Risk Owner :** Maintains awareness of role changes and potential for new risks
- **Role Owner :** Initiates proposals for role changes, approved role changes, closes out role change process
- **BA / BSA :** **Involvement in several steps**
 - Performs preliminary role change analysis
 - Creates role design / redesign documentation and test plan
 - Tests new roles in TEST – including GRC-ARA simulation
 - Supports end-user in Production.

- **R/3 Security Admin:** Builds roles and provisions role (see process 3).
- **SOD Coordinator:** Indirectly involved if there is any Mitigation requirements – see Process 2.
- **GRC Admin:** Indirectly involved if there is any Mitigation requirements – see Process 2.
- **End User:** Test their User in SAP Production.

Reports available to support the Process 1:

Rept. 5	R/3 SUIM	Roles by Role Name
Rept. 6	GRC	User to Role relationship
Rept. 7	GRC	Role relationship with User
Rept. 8	R/3 SUIM	Users by User ID
Rept. 9	GRC	Count of Authorizations
Rept. 10	GRC	Action Usage by User, Role, Profile
Rept. 12	GRC	User Level access analysis
Rept. 13	GRC	User Level access analysis – simulation with added / removed actions, roles, profiles.
Rept. 14	GRC	Role Level access analysis
Rept. 15	GRC	Role Level access analysis – simulation with added / removed actions, roles, profiles.
TCODE	SU01D	Display User information – with Roles and Profiles tab

The following report are also available, but will be less frequently used in the MIT environment:

Rept. 16	GRC	Profile Level access analysis
Rept. 17	GRC	Profile Level access analysis – simulation with added / removed actions.

Process 1: New or Amended Roles - Detailed Steps

P.1 STEP	Business Role	Responsibility / Action	Output	Details
1	Role Owner	Initiate proposal for New/Amended Roles.	<ul style="list-style-type: none"> Email to BA/BSA and Risk Owner, SAP Security Admin and MIT Audit RT Queue – new task 	<p>a. Role Owner identifies a potential need for a new role due to :</p> <ul style="list-style-type: none"> Departmental Reorganization – new roles are needed to reflect completely new, permanent job duties, and old roles probably can be deactivated. New or changed job duties – may be combined roles or split role or just completely new. This is less likely where provisioning is managed with Composite roles which can have existing roles added / removed without the need for a new role. New SAP functionality which does not easily fit into an existing role. <p>b. Role Owner communicates (email) potential need to BA/BSA and Risk Owner.</p> <p>c. The requirement may be triggered from a technical role redesign proposed by SAP Security Admin.</p> <p>Note that MIT's has made more use of “composite roles” in the redesigned VPF access. The composite role is where several roles are linked together to represent a job position or a specific user's duties.</p> <ul style="list-style-type: none"> So some minor User access changes can be managed by adding or removing roles from the composite role. This would be identified by the Role Owner in simpler cases, or by the BA/BSA for more complicated cases – see step 2.

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P.1 STEP	Business Role	Responsibility / Action	Output	Details
2	BA/BSA	Role Design review and GRC-ARA simulations	<ul style="list-style-type: none"> GRC-ARA Risk simulation reports For existing risks, assessment of existing Mitigation Controls to new tcode combination. If new Risks, kick-off a full risk assessment (see next step = Process 2). 	<ol style="list-style-type: none"> For major changes, e.g. complete business reorganization or new major multi-role applications being rolled out, there will always be a need for everyone to be involved, like the SOD project had. For minor changes, the BA/BSA will review the current role design (GRC and SUIM reports) and decide if any new Roles are necessary to achieve the business changes. Where there are any new action tcodes (create, change, post etc.), or new combinations of tcodes due to composite role changes, a GRC-ARA SOD analysis is required for : <ul style="list-style-type: none"> The proposed new / changed role The users for whom the change will be made <ul style="list-style-type: none"> The GRC-ARA simulation can use the current user in PROD, plus any tcodes (entered) or existing roles (in DEV, TEST/QA or PROD). SAP R/3 Security Admin may need to advise on additional authorizations (permission level) which may reduce the risk. The BSA may need to advise on alternative tcodes (actions) and standard SAP equivalents of custom “Z” transactions. The proposed design can be workshopped, including bringing up any SOD issues and recommendations for mitigation. (See details in Process 2: Mitigation Analysis). In defining design requirements for the request, the BA/BSA works with the Role Owner and Risk Owner. <ul style="list-style-type: none"> to mitigate risks and SODs wherever possible, reaching out to the GRC Analysis Team when input is required Check any existing Mitigation Controls related to the current role, and check the detail of the new tcode combinations. It is possible the existing Mitigation Control does not fully cover the new tcodes.

P.1 STEP	Business Role	Responsibility / Action	Output	Details
3	BA/BSA Risk Owner Role Owner SOD Coordinator	Mitigation Analysis	See Process 2 Flowchart for details	<p>Also, see Flowchart for Process 2 for more details.</p> <p>a. Mitigation analysis is required where :</p> <ul style="list-style-type: none"> • New SOD Risks are reported • Existing SOD Risks remain, but are changed due to the new tcodes • New “Critical” transactions (actions) are reported. <p>b. Detailed SOD Risk analysis will confirm if :</p> <ul style="list-style-type: none"> • risk is low level and is acceptable, or • existing mitigation could apply / still applies, or • a new mitigation control can be defined, or • a new mitigation process may need to be developed <ul style="list-style-type: none"> ○ new report ○ system enhancement ○ system configuration change ○ additional SAP Access restrictions – permission level ○ new manual process. <p>c. The output of this step will be one or more role redesigns and potentially a new Mitigation Control if the Risk remains after the role redesigns. Note the Risk may have been avoided due to “Remediation” :</p> <ul style="list-style-type: none"> • Several roles and related user assignments were changed • The tcode causing the issue was put in a “FireFighter” role.

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P.1 STEP	Business Role	Responsibility / Action	Output	Details
4	BA/BSA	Finalize role Design / Redesign and run GRC- ARA simulation	<ul style="list-style-type: none"> • Role Mini-Spec • New Role Design spreadsheet • GRC-ARA Simulation reports • Test plan and test cases 	<p>a. Prepare Role Design / Redesign documentation – including :</p> <ul style="list-style-type: none"> • Composite Role changes <ul style="list-style-type: none"> ○ Existing Composite Role: roles to be added or removed ○ New Composite Role to be created and its roles ○ Changes in assignment of Composite Roles to User • Single Role changes <ul style="list-style-type: none"> ○ New Single Roles ○ Transaction Codes (Actions) to be added or removed ○ Authorizations (Permissions) to be added, removed or changed • FireFighter roles for back-up of new/amended role – <ul style="list-style-type: none"> ○ New FireFighter roles ○ Existing FireFighter roles - changes to tcodes and other authorizations. ○ Assignment of new FireFighter Roles to Users (see Process 4) • Mitigation documentation (part of Process 2: Mitigation Analysis). • GRC-ARA SOD Risk Analysis Role and/or User simulation Report 13 and 15, where possible. <p>b. For major redesigns or new complex applications, the supporting documentation must include full GRC-ARA analysis – probably on the new Roles built in DEV. This step is not included in the flowchart.</p>

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P.1 STEP	Business Role	Responsibility / Action	Output	Details
5	Role Owner	Approve Role Built / Amendment	<ul style="list-style-type: none"> a. Email SAP Security Admin b. SAP Mini-Spec for Access Change request 	<ul style="list-style-type: none"> a. Give the initial go ahead for new/amended role. <ul style="list-style-type: none"> • Check GRC-ARA simulation results (printed report) • Review detailed Mini-Spec / SAP Access Change request • Email SAP R/3 Security Admin <ul style="list-style-type: none"> ○ Give approval to proceed and RT # ○ Include New Role Design document (for new roles) ○ Include Role Mini-Spec (for new / amended roles)
6	SAP Security Admin	Process 3 : New Users and User Role Provisioning In TEST system	<ul style="list-style-type: none"> • Email to BA/BSA when complete • Amended Role • Saved copy of current role • Update RT Ticket 	<ul style="list-style-type: none"> a. IS&T have a process for managing RT tickets, their prioritization and execution, including a QA review prior to approval of transports going into Production. The details of this process are not documented here. b. Here are the action steps specific to the Role Change requests : <ul style="list-style-type: none"> • Review all supporting documentation for completeness and for correspondence with the RT ticket description. • Determine if this request involves the already redesigned roles, or the old roles. For amending original roles, proceed with the old provisioning process. • Identify any potential overlap with the RoleDB • For any new roles, determine naming convention and check the proposed assignment to composite roles (and related users) or users. • Build or amend the role in SAP Development, move it to TEST/QA, and then assign to a test user, alias or to a composite role. <ul style="list-style-type: none"> ○ Take a safety copy of any existing role being amended ○ This can be iterative where role design is incomplete or incorrect. • Perform basic unit testing. • Advise BA/BSA the new / amended role is ready for testing

GRC Training – Business Systems Analysts (IS&T)

P.1 STEP	Business Role	Responsibility / Action	Output	Details
7	BA/BSA	Check role build, GRC-ARA and assist user with testing	<ul style="list-style-type: none"> GRC-ARA simulation reports Functionality test results Updated RT-related documentation 	a. Check role build / amendments in TEST/QA system <ul style="list-style-type: none"> SUIM report b. Run GRC-ARA SOD Risk simulation Report 15 on the Role & Report 13 on all Users to be assigned the role. <ul style="list-style-type: none"> Use the new/amended Role from TEST/QA system, User from PROD system. If any new risks are reported, check the reason and revisit the Mitigation process (Step 3). c. Assist the business User with testing the role functionality in SAP TEST/QA system (see Step 8.) d. Update RT-related documentation with test results. e. Email Role owner when business user has accepted the changes.
8	End user and/or BA		<ul style="list-style-type: none"> Functionality test results 	a. Test the new/amended role functionality in TEST/QA system b. If there are any issues : <ul style="list-style-type: none"> Go back to Step 6 for minor changes (e.g. a previously unidentified permission is required for a new tcode). Go back to Step 4 for any major changes – e.g. additional or alternative tcodes are required. [Not shown on flowchart].
9	Role Owner	Review simulations - if no issues, approve move to SAP Production.	<ul style="list-style-type: none"> Email to SAP Security Admin Updated SAP Access Change request form Update RT Ticket 	a. Review all the paperwork, including Simulation reports. b. Follow-up any issues. c. If all is good, send email to SAP R/3 Security Admin to request promotion to PROD. <ul style="list-style-type: none"> Include any special requests – e.g. staggered roll-out to several users at a time, which is more difficult when using Composite Roles.

GRC Training – Business Systems Analysts (IS&T)

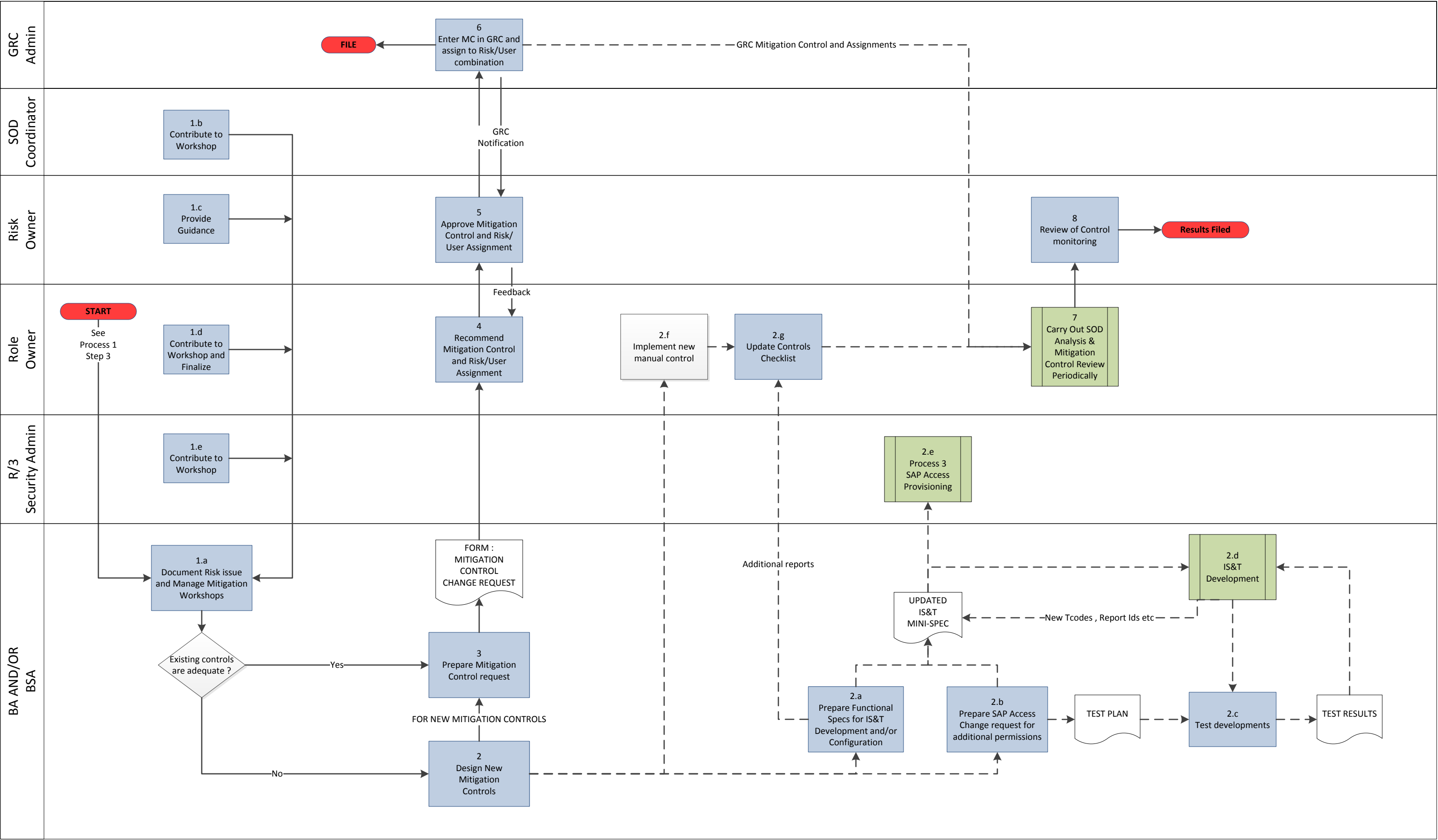
P.1 STEP	Business Role	Responsibility / Action	Output	Details
10	SAP Security Admin	Role provisioning and Transport QA review	<ul style="list-style-type: none"> Email to BA/BSA and Role Owner when complete Update RT Ticket 	<p>a. IS&T have a process for managing RT tickets, their prioritization and execution, including a QA review prior to approval of transports going into Production. The all the details of this process are not documented here, just the ones relating to the roles.</p> <ul style="list-style-type: none"> Ensure roles in DEV and TEST/QA are matching Ensure existing role to be amended in PROD is backed up Check all paperwork for release is complete, coordinate with BSA as appropriate. Request Transport QA review and promotion to PROD Check transports were imported and briefly review roles. <p>b. Email status to Role Owner</p> <ul style="list-style-type: none"> NOTE: It is also possible there is a need to tweak the RolesDataBase interface with SAP Production – i.e. stop a profile coming over for the users affected by the role changes.
11	BA/BSA	Run User level GRC simulation for all users expected to be assigned the new role. Potential risk that RolesDB profiles causes an issue see Step 17.	<ul style="list-style-type: none"> GRC-ARA simulation reports. 	Repeat of step 7 – except BA/BSA does not have access in PROD so cannot confirm anything is working.
12	End user	Test role functionality in Production	<ul style="list-style-type: none"> Functionality test results 	Repeat of Step 8.

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P.1 STEP	Business Role	Responsibility / Action	Output	Details
13	Role Owner	If no issues, close out the change request	<ul style="list-style-type: none"> Email to SAP Security Admin Updated RT Signed off SAP Access request? 	a. RT ticket can be closed out b. Courtesy email to all involved c. Paperwork check (or confirm with BA/BSA) – all is filed d. Mitigation: additional coordination required if new / amended Mitigations were required – see Process 2: Mitigation Analysis.
14	Risk Owner	Maintains awareness of role changes and their implementation.		Maintains general awareness of SAP access within business area. Look out for any new issues at next SOD Review.

Process 2: Mitigation Analysis

MIT SAP Security & GRC Process : 2. Mitigation Analysis



Process 2: Mitigation Analysis

The “Mitigation” process described in this flowchart is for the scenario where a new or amended business role is needed, and a new GRC SOD Risk is identified and cannot be avoided.

- See Process 1: New or Amended Roles - which described when role changes occur and where the SOD Risk Analysis and then this Mitigation step fits in.

When a new SOD Risk is identified, there can be several outcomes:

a. Mitigation is not required :

- a. Role change is not made – risk cannot be mitigated
- b. Functionality is added to a different user, creating no new Risk – require some additional role redesign, to move tasks between several end-users.
- c. Functionality is added to Emergency Access – Firefighter Role

b. Mitigation is required

- a. There is an existing Mitigation Control which applied to the Risk (and to the exact combination of tcodes creating the risk).
- b. A new Mitigation Control definition is required – based on :
 - existing business and/or system control processes
 - new control processes
 - new / amended Mitigation Control reports
 - new manual procedures
 - amended system configuration or enhancements providing additional restrictions
- c. additional Authorization (Permission Level) restrictions to be added to the SAP User security role

c. Where mitigation is required, the GRC system needs to be updated

- a. A new GRC Mitigation Control definition
- b. Assignment of existing or new Mitigation Controls to the Risk/User combination

Note: this process is initiated when a potential SOD risk has been identified and it seems like it cannot be avoided and so needs to be “mitigated”. It may also be that a “critical transaction” is assigned and so is being reported as a risk. This implies a “remediation” process has already been gone through, with the following steps, but none of which are acceptable or possible:

- Consider assigning the transaction code to a different user where there will not be an SOD issue
- If the specific user really needs the new transaction code assignment, then consider removing the assigned tcodes which are triggering the SOD.
- Investigate using any alternative transaction codes which deliver the functionality but do not trigger the SOD issue.
- For “critical transactions”, it may be that they are acceptable within a specific business area, but not outside that. It is proposed that MIT will have a GRC report to monitor this situation.

Roles & Responsibilities for Process 2:

- **Risk Owner:** Provide guidance for level of MIT risk acceptance and formally approve Mitigation Controls.
- **Role Owner:** Assist BA/BSA with Mitigation Control definition; propose final Mitigation Controls and User Assignments to Risk Owner.
- **BA / BSA :** **Involvement in several steps**
 - Manage Mitigation workshops / meetings
 - Assist in design of any new Mitigation Controls
 - Document existing and new Mitigation controls – prepare GRC MC Change Request for Role Owner
- **SOD Coordinator :** Contribute to Mitigation workshops / meetings
- **R/3 Security Admin :** Contribute to Mitigation workshops / meetings , and provision access to any new Mitigation Control reports
- **GRC Admin :** Update GRC Mitigation Controls and Risk/User assignments

Reports available to support the Process 2:

Rept. 11a	GRC	Mitigation Control report – lists Mitigation Controls
Rept. 11b	GRC	Mitigated Object report - lists assignment of Mitigation Controls to Risk/User combinations
Rept. 12	GRC	User Level access analysis
Rept. 13	GRC	User Level access analysis – simulation with added / removed actions, roles, profiles.
Rept. 14	GRC	Role Level access analysis
Rept. 15	GRC	Role Level access analysis – simulation with added / removed actions, roles, profiles.

The following report are also available, but will be less frequently used in the MIT environment:

Rept. 16	GRC	Profile Level access analysis
Rept. 17	GRC	Profile Level access analysis – simulation with added / removed actions.

Some important GRC concepts relevant to SOD Risk identification:

1. In SAP Access control and related GRC risk analysis, there can be two levels of access to review :
 - i. SAP Transaction Code (GRC Activity) level, like :
 - FB01 : Post a financial document
 - ME22 : Change a Purchase Order
 - FS00 : Create, change, display a GL Account master records
 - ii. SAP Authorization (GRC Permission) – like a RolesDB “qualifier”, but can be more than that.
 - Financial Document Posting : Company Codes allowed
 - Financial Document Posting : Customer usage restriction (e.g. not allowed to post to Sponsored Accounting customers)
 - Purchase Order Type : only allowed to access “NB” purchase orders
 - GL Account Master Maintenance: only allowed Display, not Create or Change – no matter what tcode is provisioned (like FS00).
 - iii. Note that one SAP transaction usually checks many different SAP authorizations – e.g. checking that a financial posting is allowed to specific objects like: a Company Code, FI Document Type, Customer account, GL Account, Prior Posting Period, Profit Center, Fund, etc.

Not all of the standard SAP authorization checks are being used at MIT – and the SAP R/3 Security Analyst is able to identify what is called up by standard SAP and what is used at MIT.

2. The way the GRC system identifies an SOD issue is by having a “rule set” of pre-defined data :
 - i. “SOD Risks” – with an id like X099 and a description like “Create a fictitious Vendor and post a fictitious Vendor invoice”.
 - ii. Combination of Functions which create the risk: e.g. ZAP01 = Create Vendor master WITH ZAP02 Post a Vendor Invoice.
 - iii. Activities (transaction codes) which the Function contains, e.g. :
 - Function ZAP01 may have 4 transaction codes like; FK01, FK02, XK01, XK02.
 - Function ZAP02 may have many transaction codes like : FB60, FB65, FB01, FB02, F-xx
 - So there are $4 \times 5 = 20$ possible combinations of transaction codes triggering the SOD issue.
3. There is no way of avoiding looking into the reported combinations of transaction codes which the user actually has and were reported. In most cases the pre-defined is reporting a clear and specific issue no matter what the combination of transaction codes. In that case an existing Mitigation Control for the same risk (by for another User) should apply to this user being reviewed. However :
 - i. In the example above, say that User 1 had transaction codes FK02 + FB02 and so Risk X099 was reported. Neither of these transaction codes is create/post, and the business risk for these may be lower than having FK01 + FB60. So any Mitigating Control assigned to User 1 for risk X099 may not apply to User 2 who has FK01 + FB60 for the same Risk = X099 .
 - ii. Additionally, User 2 may have additional restrictions – only creating Sponsor Vendors, or only posting to non-Sponsor vendors. So any Mitigating Control description will be different and so will need a new GRC mitigating Control definition.
4. In GRC risk analysis, always report at the Permission level. If some Activities (transaction codes) are not additionally defined with a Permission (authorization) level, they will still be shown in the “Permission level” report.
5. The GRC system manages “Mitigating Controls” in two steps :
 - i. Define a “Mitigating Control”, with a unique id and description
 - ii. Assign the Mitigating Control to a combination of Risk + User(s). So the GRC system can report to the Risk Owner any new users with the Risk who have not yet been assigned to the Mitigating Control.

Process 2: Mitigation Analysis - Detailed Steps

P.2 STEP	Role	Responsibility / Action	Output	Responsibility / Action
1.a	BA/BSA	Document the risk issue and manage the Mitigation Workshops / Process	<ul style="list-style-type: none"> Documentation of risk issue and existing possible mitigations Work plan and potential workshop agenda Workshop results – i.e. decision on what to do Workshop results sent to Audit - for their information. 	<ol style="list-style-type: none"> Describe the Risk and the exact combination of tcodes causing the risk. If possible, quantify / evaluate the risk in the MIT business environment – see also 1.c Risk Owner contribution. Review existing Mitigation Controls for the SOD Risk or similar SOD Risks – evaluate if they might apply. Also, the risk may already be subject to a Mitigation Control, but that may not apply to a new combination of tcodes reported for the same GRC Risk. Identify other business system controls (manual or automated) relevant to the risk. Prepare and manage a brief “workshop” meeting to review the information gathered and make a recommendation. Document the results of the workshop.
1.b	SOD Coordinator	Contribute to workshop	None	<ol style="list-style-type: none"> Contribute to the understanding of the risk and possible mitigations
1.c	Risk Owner	Provide Guidance	None	<ol style="list-style-type: none"> Provide guidance on the significance of the risk and the relative importance of mitigation – and therefore level of resource that can be justified to mitigate the risk. Potential suggestions for end-user role redesign or organizational adjustments, to eliminate or minimize risks.
1.d	Role Owner	Contribute to Workshop and Finalize Workshop results	<ul style="list-style-type: none"> Email to BA/BSA formally summarizing the workshop’s outcome / decision. 	<ol style="list-style-type: none"> Contributes to workshop Finalizes the workshop – ensures preliminary design is acceptable.
1.e	SAP Security Admin	Contribute to Workshop	None	<ol style="list-style-type: none"> Provide any technical assistance – information on addition permissions, RolesDB interactions.

GRC Training – Business Systems Analysts (IS&T)

P.2 STEP	Role	Responsibility / Action	Output	Responsibility / Action
2	BA/BSA	Design new Mitigation Controls	<ul style="list-style-type: none"> Detailed Workshop results with all proposed action items listed and reasons for rejecting alternatives. 	Design the proposed Mitigation approach and detailed activities required to implement the additional controls : <ol style="list-style-type: none"> New manual processes New/amended mitigation control reports New/amended SAP enhancements Changes to SAP configuration Additional Permission-level restrictions
2.a-g	BA/BSA	Mitigation Control development	<ul style="list-style-type: none"> New manual process New mitigation report with new tcode System enhancements Changed SAP configuration Additional SAP Security permissions 	See details in following 2.a – g steps
2.a.i	BA/BSA	SAP Development - Prepare Mini-Spec	<ul style="list-style-type: none"> Functional Specification Test plan 	Prepare Functional Mini-Specification for SAP Development : <ol style="list-style-type: none"> new / amended report new / amended enhancement. Create or amend a test plan.
2.a.ii	BA/BSA	IMG configuration change - Prepare Mini-Spec	<ul style="list-style-type: none"> Functional Specification Test plan 	Prepare Functional Mini-Specification for SAP IMG configuration change Create or amend a test plan.
2.b	BA/BSA	SAP Access Change Request – additional permissions	<ul style="list-style-type: none"> FORM : SAP Access Change Request 	Prepare SAP Access Change Request – additional permissions Create or amend a test plan.
2.c	BA/BSA	Test configuration and reports	<ul style="list-style-type: none"> Test results 	Test new / amended configuration and reports

GRC Training – Business Systems Analysts (IS&T)

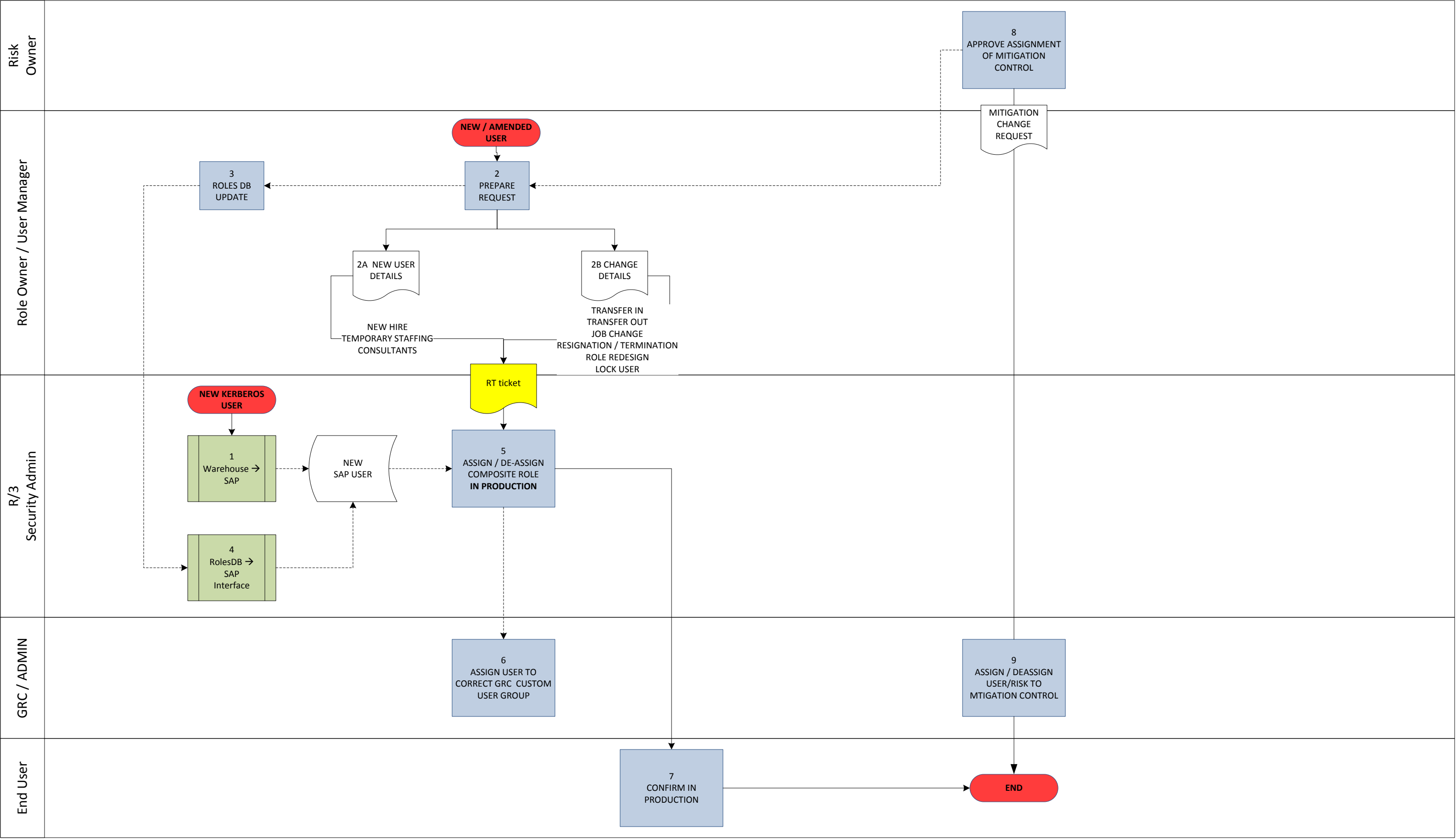
P.2 STEP	Role	Responsibility / Action	Output	Responsibility / Action
2.d	IS&T Development or BSA	Develop reports, enhancements and make config changes	<ul style="list-style-type: none"> New/amended report New/amended enhancement Changed configuration 	There are no additional processes here. The standard IS&T processes apply to these.
2.e	SAP Security Admin	<ul style="list-style-type: none"> Amend permissions Add tcodes 	<ul style="list-style-type: none"> Updated See Process 3. New Users and User Role Provisioning 	For Mitigation-related activities : <ul style="list-style-type: none"> Amend permission-level data to restrict existing end users Add new tcodes for Mitigation reports to user roles
2.f	Role Owner	Implement and document new manual control	<ul style="list-style-type: none"> Manual Process documentation Updated Controls Checklist 	Implement and document new manual control. Ensure all new controls which require periodic review are added to any Controls Checklist which may be managed for the business area.
3	BA/BSA	Prepare Mitigation Control (MC) request	<ul style="list-style-type: none"> FORM : Mitigation Control Request : MC Definition and/or Assignments 	Prepare Mitigation Control (MC) request : <ol style="list-style-type: none"> New / Amended MC definition – with details from Step 2 above. New / Amended MC assignments - MC : Risk/User combinations
4	Role Owner	Recommend Mitigation Controls	<ul style="list-style-type: none"> Send MC Request – as it should have all the details. Risk Owner may provide feedback. 	Inform Risk Owner of workshop final outcome – confirming the proposed mitigation approach is still valid.
5	Risk Owner	Approve Mitigation Control and Risk/User assignment	Request to add/amend in GRC <ul style="list-style-type: none"> Mitigation Control definition Mitigation Control assignment to Risk/User combination 	<ol style="list-style-type: none"> Check final result was as advised from workshop results, review MC definition and assignment. Request GRC Administrator to update the GRC system with the new / amended MC definition and new/amended assignments to users.
6	GRC Admin	Enter approved Mitigation Control definition and/or Risk/User assignments.	<ul style="list-style-type: none"> Updated MC definition and/or assignments Automated email for assignment changes 	Update GRC system : <ul style="list-style-type: none"> Mitigation Control definition and/or MC assignments to Risk / User combinations

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P.2 STEP	Role	Responsibility / Action	Output	Responsibility / Action
7	Role Owner	Periodic : Carry out SOD analysis and Mitigation Control review	<ul style="list-style-type: none"> Signed off Checklist and supporting documentation (reports, screen prints etc.) 	Role Owner or delegate carry out periodically : <ol style="list-style-type: none"> Where specifically mentioned in Mitigation Controls, confirm that general business control processes– e.g. Bank Reconciliations – are still in place. Specific Mitigation Control processes (manual or supported by reports).
8	Risk Owner	Review results of mitigation control processes and signs off checklist.	<ul style="list-style-type: none"> Completed and filed checklist and supporting documentation. 	<ol style="list-style-type: none"> Review results of mitigation control processes and If there is a period review checklist, signs off checklist has been completed for the period under review. Additionally, check that any “exceptions” reported were adequately followed up.

Process 3: New Users and User Role Provisioning

MIT SAP Security & GRC Process : 3. New Users & User Role Provisioning



Process 3: New Users and User Role Provisioning

The “Role Provisioning” process described here is primarily for the scenario where SAP User access is assigned or amended, within the current role definitions. Of course there can be new roles (see process 1) which would require assignment. Secondly, for completeness, some additional SAP User administration is briefly included here, and often has to precede the role assignments. Also, the MIT Roles Database is referred to in places, but its detailed administration is not included in this flowchart, nor is Kerberos Id assignment for new hires etc.

The requirement for SAP Role provisioning changes are most often identified during the following business events:

- 1 Departmental reorganization
- 2 New or changed job duties for a user – including transfers to different departments / business areas.
- 3 New hire
- 4 Temporary Staffing, where SAP access is required.
- 5 Resignation / termination / semi-permanent leave

Less common situations are:

- 6 New roles have been defined (see Process 1) - e.g. for new Functionality - which need to be assigned to users
- 7 Audits, Compliance and other reviews require changes (usually removal of access, which may also require role redesign)
- 8 General role redesign / tidy-up - triggered from technical reviews or MIT RolesDatabase redesign.
- 9 Removal of functionality from roles (so usually no SOD risk issues) so they can be assigned more widely.

Additional User provisioning requirements which are not specifically role related:

- New and existing users – new / changed administrative data: name, address, defaults/PIDs, account number, validity period etc.
- Changes to User Group (SAP core) and Custom User Group (in GRC only)
- Lock / unlock user
- Reset password

Note the following points relating to the VPF business areas which have affected the process of SAP access management:

- Typically each person has a unique set of job duties, and a “Composite Roles” is created for this.
 - The Composite Role has a number of “Single Roles” assigned to it.
 - So each VPF business area has a number of single roles – between 5 and 10 – which are combined in different combinations into Composite Roles to reflect the different job duties.
 - Additional “common roles” can be included in the Composite Role.
 - Where access is provisioned from the MIT Roles database, this access is added to the SAP User as an additional “Profile” and is not adjusting the single or composite roles definitions as such.
- In the cases where there are users with identical access requirements, they have been assigned the same Composite Role.
- There are some VPF User “FireFighter” roles – see **Process 4** – which are used for emergency back-up requirements, rather than building the access into the regular user’s role or amending a user.
- In general, the process of making minor changes to individual user access has been eliminated. There are tested and complete business roles, and these are assigned through Composite Roles. So any requested minor access change would be a role change – see process 1 – unless it was complete assignment or de-assignment of a role in a Composite role.

Roles & Responsibilities for Process 3:

- **Risk Owner** Requests assignment / deassignment of User in GRC Mitigation Control
- **Role Owner / User Manager** Requests new SAP user, assignment / deassignment of roles
 - This includes VPF Roles and IS&T Support roles.
 - Assignment of Users to GRC EAM FireFighter roles is covered in Process 4.
- **SAP R/3 Security Admin** Several tasks :
 - Assignment of roles to composite roles and Composite Roles to Users
 - Performs the maintenance of SAP User admin data
 - Manages MIT custom RolesDatabase interface to SAP User security.
- **GRC Admin** Manager user-related GRC data at the request of the Risk Owner – assignment of Users to MCs

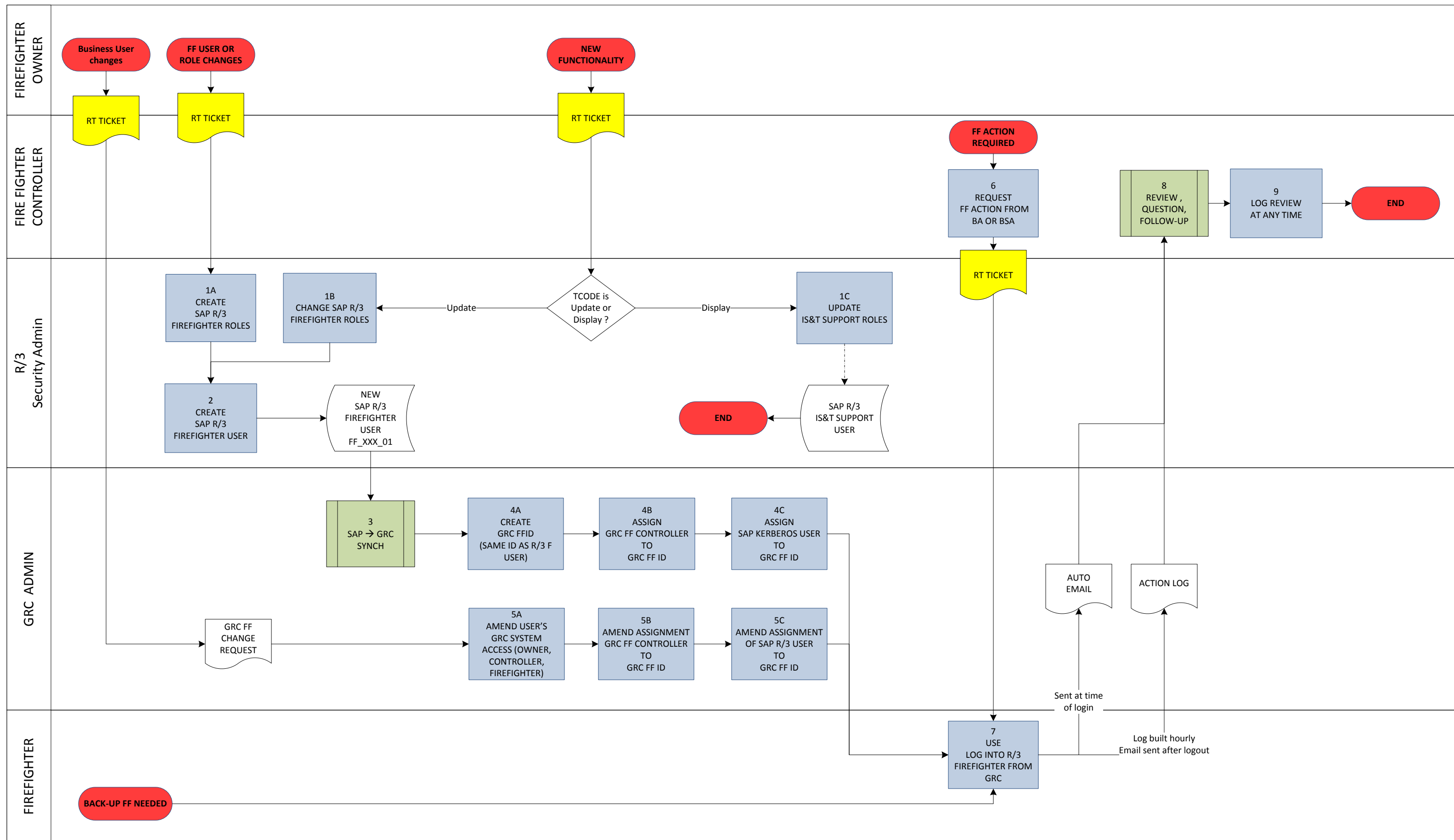
Process 3: New Users and User Role Provisioning - Detailed Steps

P.3 STEP	Business Role	Responsibility / Action	Output	Details
1a	AUTOMATED	KERBEROS /WAREHOUSE	<ul style="list-style-type: none"> New SAP User 	<ul style="list-style-type: none"> New SAP User automatically created from various sources, including Warehouse. Basic admin information and some basic ESS etc. access profiles are assigned.
2a	Role Owner / User manager	Request new user	<ul style="list-style-type: none"> Email / Form with details 	<ul style="list-style-type: none"> Provide Admin details: Kerberos Id, Name, MIT address, validity period etc. Provide Role Assignment information: Composite Role or variation of role combinations required. Note: if any role changes were required, this would have gone through Process 1 and 2 first to define the new role, with any SOD analysis as required. TEMPORARY STAFFING – may need 2 composite roles – potential SOD.
2b	Role Owner / User manager	Request user role change	<ul style="list-style-type: none"> Email / Form with details 	<ul style="list-style-type: none"> Provide Role Assignment information: Composite Role or variation of role combinations required. Note: if any role changes were required, this would have gone through Process 1 and 2 first to define the new role, with any SOD analysis as required.
2c	Role Owner / User manager	Request user admin data change	<ul style="list-style-type: none"> Email / Form with details 	<ul style="list-style-type: none"> Provide changes to User Admin data information – rare.
3	User manager	RolesDB provisioning	<ul style="list-style-type: none"> Updated RolesDB 	<ul style="list-style-type: none"> Update RolesDB with required information
4	R/3 Security Admin	RolesDB → SAP interface	<ul style="list-style-type: none"> Updated User access 	<ul style="list-style-type: none"> Any SAP-relevant RolesDB provisioning will result in the SAP User having additional “profiles” assigned, in addition to the profiles generated from the assigned SAP Security roles.

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P.3 STEP	Business Role	Responsibility / Action	Output	Details
5	R/3 Security Admin	Maintain business-related roles to user	•	<ul style="list-style-type: none"> Assign Roles – for VPF, this is now a “Composite Role” which has a number of roles relating to the VPF business area. In some cases, a VPF user is unique and so effectively has a job or user specific composite role. <ul style="list-style-type: none"> New User : add composite role Transfer In : add composite role (confirm removal of Id composite role) Transfer Out : remove composite role Job Change : remove old Composite / add new Composite Consultants : validity period – approval for PRODUCTION access (several IS&T approvers required) Temporary Staff: potential SOD if two composite roles assigned. Termination with Prejudice : Lock immediately
6	GRC Admin	Assign user to GRC Custom User Group	• Updated user assignment	• Assign user to GRC Custom User Group
7	End User	Confirm access	• Email	• Confirm changed access in Production
8	Risk Owner	Approve assignment of GRC MC	• MC change form	• Request assignment of Mitigation Control to Risk User combination.
9	GRC Admin	Update User/Risk -> MC	• GRC updated	• Update assignment of Mitigation Control to Risk User combination.

Process 4: FireFighter Users and Roles



Process 4: FireFighter Users and Roles

This section covers the special circumstances where users and roles are created for emergency “FireFighter” use *and for changes to IS&T Support roles*. Where the term “FireFighter” is used here, it relates to the use of the GRC-EAM (Emergency Access Management) functions which have some special features which require administration and monitoring.

The features in use at MIT are:

- Special SAP R/3 FireFighter Users and Roles – typically with limited update functionality. Access rights to the R/3 FF Users are pre-assigned in GRC-EAM to specific business users who need occasional or emergency access to functions which would otherwise create SOD issues if permanently assigned. Some Firefighter Users have roles with more access than others - see the various FFID types described below.
- The firefighter logs into the GRC-EAM system with their SAP Kerberos User ID run the transaction /n GRAC_SPM; they will see the Firefighter launch pad, with the pre-assigned FireFighter user. The firefighter “logs in” to the pre-assigned Firefighter user, which allows them to access SAP R/3 to perform the emergency or back-up business functions. When finished, they log out of their SAP R/3 session, and then log out of SAP GRC.
 - A FFID can be shared, but can only one person can log into it at a time.
 - The FireFighter ID Owner determines the appropriate assignment for the Firefighter ID.
 - The FireFighter Controller for that FFID is notified when it is used
 - The FireFighter User actions are logged and reviewed by FireFighter Controller or Delegate when the Firefighter logs out.
- All SAP Users which are set up for FireFighter usage will be named like “FF_XXX_NN” where XXX = the business area letters (can be a few more characters if needed) and NN is a sequential number. User Type = SERVICE and special role assigned to identify it as a GRC FireFighter (see step 2A). The R/3 → GRC Repository Synch job synchronizes R/3 user assignment data with production GRC. The GRC Admin creates a FFID in the NWBC (NetWeaver Business Client) interface with the same id as the R/3 User. All Firefighter users must have their own personal SAP IDs manually created in GRC. The different

FFID types have different roles in R/3:

- **Business User FFID:** has limited update transactions, specific to the business areas or job duties for the users being backed-up. This would have SODs when combined with business user’s standard role.
- **Business Analyst FFID:** has update transactions with broad business access – roles are either Finance/Logistics or HR/Payroll focused. Will always have SODs as they are broad access to deal with any issues. At MIT these are Composite Roles combining all the standard business roles for the business area.

GRC Training – Business Systems Analysts (IS&T)

- **IS&T BSA FFID and BSA Manager FFID:** has update transactions with broad business access – roles are either Finance/Logistics or HR/Payroll focused. Will always have SODs as they are broad access to deal with any issues.
- **IS&T Basis Admin FFID:** has *some special access over and above what they already have*.
- **IS&T Developer FFID and Developer Manager FFID:** has update transactions with broad business access to deal with any issues – and these will always have SODs. The roles are either Finance/Logistics or HR/Payroll focused and some Developer FFIDs and the Developer Manager FFID include EDI and Workflow support access,
- **Note: Support User in IS&T BSA:** has display only transactions with broad business access, so should never have an SOD for these.
- **Note: Regular BA users:** display only transactions with broad business access, so should never have an SOD for these.

After the initial FireFighter process set-up, the ongoing administration consists of:

- **More frequently**
 - Creation of SAP Kerberos ID in GRC for Firefighters
 - GRC Assignment of SAP Users to FireFighter Ids (adding and removing assignment)
 - SAP R/3 FireFighter Role maintenance – new functionality for the business needs to be added, and discontinued functionality removed.
- **Less frequently**
 - GRC Assignment / de-assignment of FireFighter Ids to FFID Controllers
 - New SAP R/3 FireFighter Users when there are additional FFID Controllers

Some additional MIT-specific background points related to FireFighter design:

- The FireFighter SAP R/3 users do not have Kerberos ids, so they are created by SAP R/3 Security Admin, and no profiles are provisioned through Warehouse or RolesDB.
- So that automated monitoring of BA and BSA FireFighter Id usage can go to the appropriate business manager, separate FireFighter Users have been set up for each business area manager (the FFID Controller). Typically the same role is assigned to several FF R/3 Users, as the BA/BSA needs the same access no matter which manager requested the FireFighter usage.
- Use of FF will require an RT Ticket to be created and justification and details of its usage are documented there.

GRC FireFighter terminology

- **R/3 FireFighter User:** - the R/3 User called up by GRC when the FireFighter requests access via GRC – it cannot be accessed in SAP R/3 directly.
- **FireFighter** - the business user, BA or BSA or BSA Manager or IS&T Developer or IS&T Developer Manager, SAPADM user or SAPADM manager who needs access to the R/3 FireFighter User in Production.
- **FireFighter Id** - the GRC object used to control access to the R/3 FireFighter User – it links the R/3 FireFighter User to the FireFighter.
- **FireFighter's R/3 Role Owner** - like the standard R/3 Security Role Owner – will usually be the same as the FireFighter ID Owner.
- **FireFighter ID Owner** - requests/approves GRC assignment of Users to FF Ids. *GRC functionality for FFID Owner is not being used.*
- **FireFighter ID Controller** - informed of FF usage at start and end of session and reviews logs. Typically the Business Role Owner.
- **FireFighter ID Controller's Delegate** *Not currently being used at MIT.*

Roles & Responsibilities for Process 4:

- **SAP R/3 Security Admin** Maintain FireFighter and Support Users in SAP, and their assignment to MIT personnel
- **GRC Admin** Maintain FFIDs and assignments - also can maintain R/3 Users.
- **FFID Owner** Requests user assignment to FFIDs and any new FFIDs
 - For VPF, this varies per business area. **May be Risk Owner or Role Owner.**
 - For IS&T, these are Frank and Siobhan
- **FFID Controller** Review FFID actions.
 - For VPF, this is Controller or Director level. **May be Role Owner or Business Area manager.**
 - For IS&T this is Bart
- **FireFighter**

Process 4: FireFighter Users and Roles - Detailed Steps

P.4 STEP	Business Role	Responsibility / Action	Output	Details
1a	R/3 Security Admin	Create FireFighter Roles	<ul style="list-style-type: none"> Roles 	<p>There are several types of FF roles :</p> <ul style="list-style-type: none"> Business Analysts (BA) IS&T Business System Analysts (BSA) IS&T Basis Role IS&T Developers IS&T Managers Business users – limited and specific to each requirement (mostly for back-up) <p>The Role Provisioning process (requesting, approving, auctioning, and testing) is no different to any other role – except that SOD issues are not relevant.</p>
1b	R/3 Security Admin	Maintain FireFighter Roles	<ul style="list-style-type: none"> Roles updated 	<p>Changes should be infrequent, once the system matures :</p> <ul style="list-style-type: none"> Add new Functionality Remove <p>The Role Provisioning process (requesting, approving, auctioning, and testing) is no different to any other role – except that SOD issues are not relevant.</p> <p>There are special designated approvers for changes to FF roles :</p> <ul style="list-style-type: none"> <i>FFID Owner for BAs</i> <i>FFID Owner for IS&T FireFighters</i> <i>FFID Owner for Business FF = Risk Owner of the business area?</i>
1c	R/3 Security Admin	Maintain IS&T Support Roles	<ul style="list-style-type: none"> Roles updated 	<p>IS&T Support Roles</p> <ul style="list-style-type: none"> These are Display only roles and are in daily use. They are not part of the “FireFighter” control process. <p>The Role Provisioning process (requesting, approving, auctioning, and testing) is no different to any other role. There must be NO SOD ISSUES in these roles.</p>

GRC Training – Business Systems Analysts (IS&T)

P.4 STEP	Business Role	Responsibility / Action	Output	Details
2A	R/3 Security Admin	Maintain FireFighter Users	<ul style="list-style-type: none"> Users updated Business Roles assigned FireFighter role assigned 	<p>The R/3 FireFighter Users are generic in that they are assigned to anyone / more than one person via the GRC system. See Step 4.c</p> <p>New R/3 FireFighter Users will be infrequent - perhaps if there is a whole new area of SAP implemented.</p> <ul style="list-style-type: none"> Creation of R/3 FF Users is a manual process (cf. regular Kerberos R/3 users are automatically created during MIT on-boarding.) The R/3 FireFighter User is assigned the special FireFighter role with some RFC access privileges (identified in the GRC system parameter 4010 as Z_SAP_GRAC_EAM_FFID). This identifies the FireFighter R/3 User to GRC as a FireFighter. Also the User Type = SERVICE, as the login is activated/controlled by a call from the GRC system when the user logs into the FF ID from GRC.
2B	R/3 Security Admin	Lock/Unlock R/3 Users	<ul style="list-style-type: none"> R/3 User locked or unlocked 	<p>Like any other R/3 User, the R/3 FireFighter user can have validity periods (not used much at MIT) or can be locked / unlocked to control access.</p> <ul style="list-style-type: none"> Users are created in Production – so may be locked until needed.
3	Basis / GRC	Synch systems : SAP to GRC Repository	<ul style="list-style-type: none"> GRC = ECC 	<p>An automated process makes sure that the GRC system has up-to-date information from SAP R/3 about roles and users. In this case, specific to FireFighters :</p> <ul style="list-style-type: none"> The FireFighter R/3 User needed for step 4.A The Business R/3 Users are needed for step 4A, 4B and 4C Any new FireFighter roles – in case GRC-ARA analysis is needed (not at MIT).

GRC Training – Business Systems Analysts (IS&T)

P.4 STEP	Business Role	Responsibility / Action	Output	Details
4A	GRC Admin	Maintain FFIDs	<ul style="list-style-type: none"> FF Ids in GRC-EAM 	<p>The GRC FFID attribute settings are central to the control and usage of the FireFighter roles in R/3</p> <ul style="list-style-type: none"> In this step the following updates are made in the GRC-EAM system : <ul style="list-style-type: none"> The FFID is created– with the same naming convention as the SAP R/3 FireFighter user - like FF_FAR_01. The FFID is assigned to the matching SAP R/3 FireFighter User. The FFID is assigned to an FFID Owner – at MIT this is mostly for information only, as the FFID Owner will <u>not</u> be logging in to GRC to maintain user assignment. Additional information for the FFID can be added if required. <p>The GRC FFIDs are mostly set up during the initial phase of the GRC project, and is related to the business organization, so additions will be less frequent.</p>
4B	GRC Admin	Assign FFID Controllers NOTE : FFID Controller “Delegates” not currently used at MIT	<ul style="list-style-type: none"> FF Id assigned to FFID Controller (SAP R/3 User) 	<p>In this step an FFID is assigned an FFID Controller (which is another R/3 User) :</p> <ul style="list-style-type: none"> The FFID Controller is emailed when the FFID user logs in and logs out – with a link to the FFID detailed usage logs after logging out. For the VPF business areas, the VPF business managers are the FFID Controllers – for the Business FF, BA FF and BSA FF. For non-VPF areas, there are FFID Controllers in IS&T so that the BSA FFID usage can be monitored.
4C	GRC Admin	Assign FFID to SAP Users	<ul style="list-style-type: none"> FF Id assigned to SAP R/3 Users 	<p>In this step an FFID is assigned the R/3 User who is the actual FF person - and this is a different R/3 user than the FFID’s Controller.</p> <ul style="list-style-type: none"> An FFID can be assigned to several R/3 users An R/3 User can be assigned to several FFIDs The assignment can be for a limited period.


GRC Training – Business Systems Analysts (IS&T)

P.4 STEP	Business Role	Responsibility / Action	Output	Details
5A	GRC Admin	Grant appropriate access to the GRC system	<ul style="list-style-type: none"> Assign GRC access rights to R/3 Users 	<p>There are several types of GRC users who need specific access privileges in GRC – predefined in GRC access roles :</p> <ol style="list-style-type: none"> FFID Owners (although MIT is not really using this feature) – GRC Role = Z_FFID_OWNER FFID Controllers GRC Role = Z_FF_CONTROLLER FFID Users – those who have to log in to the FFID. GRC Role = Z_FF_ENDUSER Other MIT users who may want to run FF-related reports. <p>This data will typically need updating as users change their job positions or when they join / leave the MIT workforce.</p>
5B	GRC Admin	Amend FFID / Controller assignment	<ul style="list-style-type: none"> FF Id assigned to different Controller 	<p>This assignment will typically need updating where the FFID Controller changes jobs, leaves MIT or if there is a Departmental Reorganization.</p> <ul style="list-style-type: none"> Change the assignment (an FFID has only one Controller) <p>An RT Ticket is required, plus a new Form – GRC FireFighter ID Assignment Change request.</p> <p><i>Note: if this reassignment is made after the event, the FFID logs can still be reviewed through FRC-EAM reporting.</i></p>
5C	GRC Admin	Amend FFID / SAP User assignment	<ul style="list-style-type: none"> FF Id assigned to different SAP Users 	<p>This assignment in GRC will need updating when the R/3 User changes jobs, leaves MIT or perhaps if there is a Departmental Reorganization.</p> <ul style="list-style-type: none"> Add an assignment – with a future “Valid From” date if known in advance. Remove an assignment and amend the “Valid To” date if move is known in advance? <p>An RT Ticket is required, plus a new Form – GRC FireFighter ID Assignment Change request.</p>

GRC Training – Business Systems Analysts (IS&T)

P.4 STEP	Business Role	Responsibility / Action	Output	Details
6	FireFighter Controller / Business Manager	Request FF usage	<ul style="list-style-type: none"> RT ticket 	An RT Ticket is required where the business manager has requested support from BA/BSA etc. - with justification and details of expected usage.
7a	SAP User	Log into the FFID	<ul style="list-style-type: none"> RT ticket, if not already created Email to FFID Controller 	<p>The Business FireFighters performing back-up / unusual work do not need a ticket. Otherwise there is an RT Ticket either from step 6. or created by the BA or BSA based on email from the Business Manager (FireFighter Controller). Also, a "Reason Code" is selected when logging in to the FFID, and additional information can be entered by the FireFighter.</p> <p>When the FFID is used,</p> <ul style="list-style-type: none"> an email is sent immediately to the FFID Controller an activity log is started and is updated hourly
7b	SAP User	Log out of the FFID		<p>Where there is an RT Ticket, any additional / unexpected FireFighter usage will be noted on the RT ticket by the FireFighter.</p> <p>When the user logs out of the FFID, within the hour the activity log is updated and an email is sent to the FFID Controller with a link to the Activity Log for that FFID and time period it was used.</p>

GRC Training – Business Systems Analysts (IS&T)

P.4 STEP	Business Role	Responsibility / Action	Output	Details
8	FFID Controller	Review, Question, Follow-up	<ul style="list-style-type: none"> Approval or action list 	<ul style="list-style-type: none"> The email from GRC to the FFID Controller is a request for approval and a link to the details action log. Action logs are reviewed – looking for unusual activities in general, and activities inconsistent with the <ul style="list-style-type: none"> Business FireFighters have limited, pre-approved access, so it is unlikely that anything will result from review of the logs alone. For the other FireFighters, any master data changes or financial postings need to be reviewed and approved – a common technique for this is printing the log and initialing each line that was verified. In SAP the master data change history and financial documents are available for review at any point afterwards. The reviewer's options are to : <ul style="list-style-type: none"> Request the FireFighter to provide more details Approve the whole log. "Hold" the log – i.e. not approve it yet. The work item will stay in their GRC inbox for subsequent processing. Additional notes can be made on the log for any action to be taken.
9	Reporting Actions	Review FFID usage and Activity Logs at any time	<ul style="list-style-type: none"> Reports – some of the standard reports will be used – Log Summary and Consolidated Log (see next two pages) 	 <p>Emergency Access Management Reports</p> <hr/> <p>View details related to reviewing Emergency Access User Activities</p> <p>Quick Links</p> <ul style="list-style-type: none"> Consolidated Log Report Invalid Superuser Report Firefighter Log Summary Report Reason Code and Activity Report Transaction Log and Session Details SOD Conflict Report for Firefighter IDs

Firefighter Log Summary Report

Close

Saved Variants:

[Delete](#)

System is ZZSF203001
 Date is between 04/01/2012 And 05/14/2013
[Clear](#) Save Variant As: [Save](#)

Resultset size: 100

[Run in foreground](#) [Run in background](#)

Result set: 1 [Go](#) [Previous](#) [Next](#) [Export Table](#)

View: [Standard View] <input type="button" value="Display As: Table"/> Print Version Export Filter Settings									
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FF_FIN_FI_02	ZZSF203001	FF_FIN_FIOWN	04/26/2013 15:51:54	Finance Support	Siobhan Cunningham	testing	testing		Session Details
FF_SAPADM_03	ZZSF203001	Richard Katkowski	04/03/2013 09:21:37	Security Maintenance	Ronald Parker	Log testing.	Run transactions SM04, SM51, SM59, SE38		Session Details
FF_SAPADM_03	ZZSF203001	Richard Katkowski	04/03/2013 09:21:37	Security Maintenance	Ronald Parker	Log testing.	Run transactions SM04, SM51, SM59, SE38		Session Details
FF_SAPADM_03	ZZSF203001	Qian Kang	03/27/2013 12:27:11	Security Maintenance	Ronald Parker	Firefighter id test	spro se16 su01		Session Details
FF_SAPADM_03	ZZSF203001	Qian Kang	03/27/2013 12:27:11	Security Maintenance	Ronald Parker	Firefighter id test	spro se16 su01		Session Details
FF_SAPADM_03	ZZSF203001	Richard Katkowski	03/27/2013 10:24:03	Security Maintenance	Ronald Parker	Run general Basis transactions for logging purposes.	Execute transactions.####SE38##SM59##SM04##SM51		Session Details
FF_SAPADM_03	ZZSF203001	Richard Katkowski	03/27/2013 10:24:03	Security Maintenance	Ronald Parker	Run general Basis transactions for logging purposes.	Execute transactions.####SE38##SM59##SM04##SM51		Session Details
FF_EHS_01	ZZSF203001	SQUIGLEY_TST	03/18/2013 12:48:50	Year End	FF_FIN_FIOWN	test	test		Session Details
FF_FIN_FI_01	ZZSF203001	JD Sudhakar	03/12/2013 16:56:45	Finance Support	FF_FIN_FIOWN	testing Finance T-codes	FB01##FCH3##		Session Details
FF_FIN_FI_03	ZZSF203001	Sarah Quigley	03/12/2013 07:54:06	Year End	JD Sudhakar	test	st22, sm21##	Se16 for test	Session Details
FF_FIN_FI_03	ZZSF203001	Sarah Quigley	03/11/2013 15:33:10	Year End	JD Sudhakar	Test	se16		Session Details
FF_FIN_FI_03	ZZSF203001	Sarah Quigley	03/11/2013 15:14:20	Year End	JD Sudhakar	st22	test	additional testing	Session Details
FF_FIN_FI_03	ZZSF203001	Sarah Quigley	03/11/2013 15:10:41	Year End	JD Sudhakar	test	test		Session Details
FF_SAPADM_03	ZZSF203001	Richard Katkowski	03/11/2013 13:40:23	Security Maintenance	FF_FIN_FIOWN	hack the system and give myself a big check	sm04	anything	Session Details
FF_SAPADM_03	ZZSF203001	Richard Katkowski	03/11/2013 13:40:23	Security Maintenance	FF_FIN_FIOWN	hack the system and give myself a big check	sm04	anything	Session Details
FF_FIN_FI_01	ZZSF203001	Sarah Quigley	03/08/2013 10:38:08	Finance Support	FFD_OWNER	Test after SP13	SE16, SM30		Session Details
FF_FIN_FI_01	ZZSF203001	Slava Plyushchikov	02/28/2013 13:55:50	Finance Support	FF_FIN_FIOWN	emergency vendor master change.##RT #45776	xk02		Session Details
FF_FIN_FI_01	ZZSF203001	Slava Plyushchikov	02/28/2013 12:37:03	Finance Support	FF_FIN_FIOWN	test3	xk02		Session Details
FF_FIN_FI_01	ZZSF203001	Slava Plyushchikov	02/28/2013 12:33:59	Finance Support	FF_FIN_FIOWN	test2	su01		Session Details
FF_FIN_FI_01	ZZSF203001	Slava Plyushchikov	02/28/2013 12:32:45	Finance Support	FF_FIN_FIOWN	emergency change in vendor master.##Ticket # 234567	xk02		Session Details

Consolidated Log Report

Close

Saved Variants:

Delete

Report Name is All system logs

System is ZZSF203001

Date is between 04/01/2012 And 05/14/2013

Clear

Save Variant As:

Save

Resultset size: 100

Run in foreground Run in background

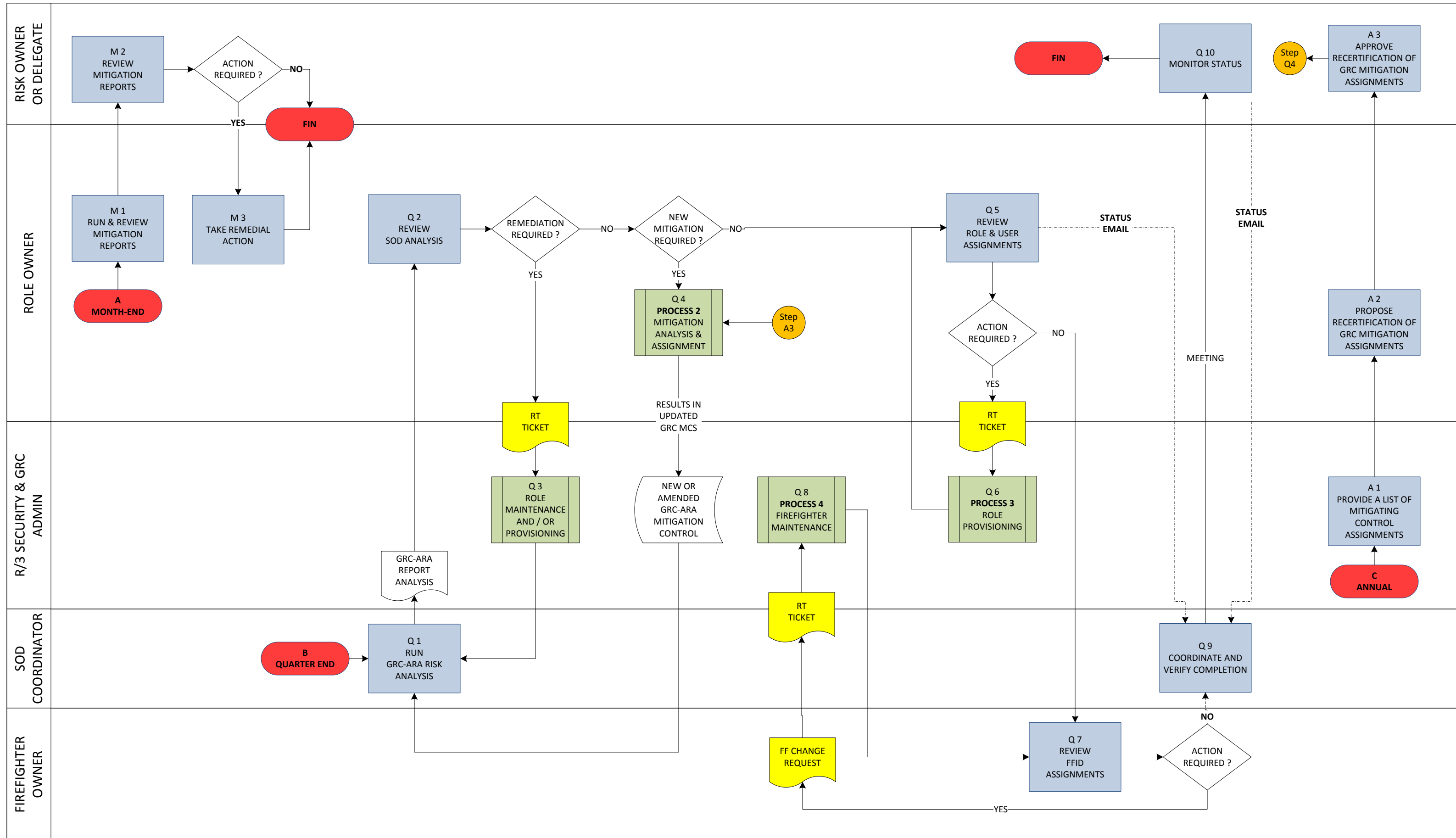
Result set: 1 Go Previous Next Export Table

View: * [Standard View] Display As: Table Print Version Export Filter Settings												
Firefighter ID	Firefighter	Owner	Date/Time	Transaction	Table Name	Field Name	Field Text	Program	Old Value	New Value	Reason Code	Item Id
FF_FIN_FI_01	SQUIGLEY	FFID_OWNER	03/08/2013 10:38:36	SE16				/1BCDWB/DBUSR02			Finance Support	
FF_FIN_FI_01	SQUIGLEY	FFID_OWNER	03/08/2013 10:38:21	SE16				SAPLSETB			Finance Support	
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 13:56:51	XK02				SAPMSYST			Finance Support	
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 13:56:47	XK02				RSM13000			Finance Support	
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 13:56:34	XK02				SAPMF02K			Finance Support	
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 12:37:42	XK02				SAPMSYST			Finance Support	
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 12:37:40	XK02				SAPMF02K			Finance Support	
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/27/2013 17:37:51	XK02				SAPMSYST			Finance Support	
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/27/2013 17:37:18	XK02				RSM13000			Finance Support	
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/27/2013 17:37:17	XK02				SAPMF02K			Finance Support	
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 13:56:47	XK02	LFA1	STRAS	House number and street		1080 MAIN ST.	88 SECOND ST.	Finance Support	0000126965
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 12:37:40	XK02	LFA1	STRAS	House number and street		Second ave.	MAIN ST.	Finance Support	0000126965
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 12:33:24	XK02	LFA1	STRAS	House number and street		1080 MAIN ST.	Second ave.	Finance Support	0000126965
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 12:04:46	XK02	LFA1	STRAS	House number and street		1080 MAIN ST	1080 MAIN ST.	Finance Support	0000126965
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/27/2013 17:37:15	XK02	LFA1	STRAS	House number and street		1080 MAIN ST	1080 MAIN ST.	Finance Support	0000126965
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 13:56:47	XK02	ADRC	STREET	Street		1080 MAIN ST.	88 SECOND ST.	Finance Support	BP 0050126403
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 12:37:40	XK02	ADRC	STREET	Street		Second ave.	MAIN ST.	Finance Support	BP 0050126403
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 12:33:24	XK02	ADRC	STREET	Street		1080 MAIN ST.	Second ave.	Finance Support	BP 0050126403
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/28/2013 12:04:46	XK02	ADRC	STREET	Street		1080 MAIN ST	1080 MAIN ST.	Finance Support	BP 0050126403
FF_FIN_FI_01	SPLYUSHC.SAP	FF_FIN_FIOWN	02/27/2013 17:37:15	XK02	ADRC	STREET	Street		1080 MAIN ST	1080 MAIN ST.	Finance Support	BP 0050126403

Last updated at 05/14/2013 08:30:00

Process 5: Periodic Compliance Reviews

MIT SAP Security & GRC Process : 5. Periodic Compliance Reviews



Process 5: Periodic Compliance Reviews

This section covers the different activities which are periodically carried out to ensure the mitigation controls are in place and the various access-related and mitigation-related user assignments are still valid.

1. **Monthly** : **Operation and verification of Mitigation Controls**, including :
 - 1.1. Reports specifically designed to provide mitigation control for SOD issues or monitoring Critical Actions
 - 1.2. Other general business controls (typically reports) which were incorporated in the Mitigation Control definition.
2. **Quarterly** : **Access Analysis** , including :
 - 2.1. GRC-ARA - reviewing Access Risk Analysis (SOD and Critical Action) reports
 - 2.2. GRC & R/3 - checking User / Role and Role / User assignments and Single Role / Composite Role assignments
 - 2.3. GRC-ARA - checking User / Risk to Mitigation Control assignments
 - 2.4. GRC-EAM - checking FireFighter and FireFighter Controller assignments
3. **Annual** : recertification of GRC Mitigation Controls
 - 3.1. GRC-ARA - recertification of GRC Mitigation Controls definitions

Roles & Responsibilities for Process 5:

- | | |
|---------------------------------|--|
| • SAP R/3 Security Admin | Maintain FireFighter and Support Users in SAP, and their assignment to MIT personnel |
| • GRC Admin | Assist in the review of FFIDs assignments and Mitigating Control Assignments. |
| • FFID Owner | Ensure all FFIDs are correctly assigned to Controllers and to FireFighters (Business, BA, BSA, IS&T Manager, etc.) |
| • Role Owner | Ensure all “owned” roles assignments are valid, and all users for that business area have appropriate roles |
| • Risk Owner | Check that mitigation controls are in place and operating effectively. |
| • SOD Coordinator | Execute GRC-ARA reports and provide interpretation to Role Owner and Risk Owner. |

Process 5: Periodic Compliance Reviews - Detailed Steps

P.5 STEP	Business Role	Responsibility / Action	Output	Details
M	MONTHLY			
M1	ROLE OWNER	Review mitigation reports	<ul style="list-style-type: none"> Mitigation reports 	<ul style="list-style-type: none"> Mitigation reports may be specific for GRC issues or general (existing for the business). The reports may be executed by different people, but the Role Owner / Business Area manager brings them all together and checks for explanations and follow-up actions. The assumption is that the Mitigation Control report identified some unusual activity (master data creation/changes and/or financial postings). This would be followed up by Role owner to determine if it was <ul style="list-style-type: none"> unusual but not an issue a mistake which may or may not need correcting / reversing / reposting a deliberate attempt
M2	RISK OWNER	Ensure all mitigation controls are in place and functioning	<ul style="list-style-type: none"> Signed-off checklist Email to SOD Coordinator 	<ul style="list-style-type: none"> Role owner (usually a business area manager) or delegates run the Mitigation Control reports for the SAP users in their business area. These list out, per user, any unusual activity related to the specific SOD risk.

GRC Training – Business Systems Analysts (IS&T)

P.5 STEP	Business Role	Responsibility / Action	Output	Details
M3	ROLE OWNER	Take remedial action	Depends on the issue	<ul style="list-style-type: none"> • Role owner and Risk Owner decide on any remedial action. This may include : <ul style="list-style-type: none"> ○ Correcting / reversing / reposting data ○ Better training / job aids ○ Amending the Mitigation Control report to filter out the exact item if it is “not so unusual”. ○ Worst case : investigate the historical posting activity of the user
Q	QUARTERLY			
Q1	SOD COORDINATOR	Execute and interpret the GRC-ARA risk analysis reports	<ul style="list-style-type: none"> • GRC-ARA report • Analysis interpretation 	<ul style="list-style-type: none"> • Execute GRC-ARA Report 12 - Risk Analysis – User level for each User Group or for each Custom User Group – to show any unmitigated risks <ul style="list-style-type: none"> ○ Note: use option “Show All Objects” to ensure all users are listed – with or without violation. • Prepare a summary document providing interpretation of any SOD or Critical Risk results. • If this is a new issue, also determine what has changed in the user’s access to trigger this. • Assist Risk Owner with interpretation of the four recommended Access Dashboard Reports: <ul style="list-style-type: none"> ○ GRC Report 1 – Risk Violations ○ GRC Report 2 – User Analysis ○ GRC Report 3 – Violations Comparisons ○ GRC Report 4 – Access Rule library

GRC Training – Business Systems Analysts (IS&T)

P.5 STEP	Business Role	Responsibility / Action	Output	Details
Q2	ROLE OWNER	Review analysis and initiate action	<ul style="list-style-type: none"> • Sign-off • Request for action where required • Email final status to SOD Coordinator 	<ul style="list-style-type: none"> • Provide a sign-off where there were no unmitigated risks (i.e. a nil report) • Assist the SOD Coordinator to review any new issues which would have occurred because of deliberate or accidental changes : <ul style="list-style-type: none"> ○ User has new roles assigned (e.g. their composite role has a new role assigned) ○ One of the user's roles has new actions or permissions ○ User has new profiles from RolesDatabase • Initiate any request for : <ul style="list-style-type: none"> ○ Role amendments ○ Role provisioning amendments ○ Mitigation Control creation and assignment to Risk/User.
Q3	R/3 SECURITY ADMIN	Role Maintenance Role Provisioning	<ul style="list-style-type: none"> • Amended roles or composite roles • Amended user/role assignments 	See GRC Process 3 for details.
Q4	ROLE OWNER RISK OWNER BA AND BSA GRC ADMIN	GRC Mitigation Control definition , approval, maintenance and assignment	<ul style="list-style-type: none"> • New or existing Mitigation Controls defined and assigned in GRC 	See GRC Process 2 for details, including : <ul style="list-style-type: none"> • Definition, review and approval (business side) • Creating a new GRC Mitigation Control definition in GRC • Assigning the Mitigation Control to the Risk / User combination.
Q 5	ROLE OWNER	Validate role and user assignments	<ul style="list-style-type: none"> • GRC reports • If required, request for role provisioning change 	<ul style="list-style-type: none"> • NOTE : MONTHLY FOR NEW SYSTEM – MOVE TO QUARTERLY • Several GRC and R/3 SUIM reports will be used for this: <ul style="list-style-type: none"> ○ Roles for a User ○ Users for a Role
Q 6	R/3 SECURITY ADMIN	Amend role provisioning to user	<ul style="list-style-type: none"> • Amended user access 	See details of Process 3: New Users and User Role Provisioning

GRC Training – Business Systems Analysts (IS&T)

P.5 STEP	Business Role	Responsibility / Action	Output	Details
Q 7	FIRE FIGHTER ID OWNER	Confirm FFID assignments to Controllers and FireFighters	<ul style="list-style-type: none"> Confirmation of assignments If required, request to amend assignments 	<ul style="list-style-type: none"> GRC-EAM Reports <ul style="list-style-type: none"> FFID – controller assignment (business manager) FFID – user assignment (business user, BA, BSA, BSA manager, Developer etc.) A change request will be need for any changes : <ul style="list-style-type: none"> FFID Controllers may have transferred / resigned / retired Firefighters may have transferred / resigned / retired
Q 8	GRC ADMIN	Amend FFID assignments	<ul style="list-style-type: none"> Report showing updated, correct assignments 	<ul style="list-style-type: none"> See GRC Process 4: FireFighter Users and Roles.
Q9	SOD COORDINATOR	Quarterly GRC Review Status & Closure	<ul style="list-style-type: none"> Email to Risk Owners 	<ul style="list-style-type: none"> Summary of results and action items (closed or still open) for the review – per risk owner.
Q10	RISK OWNER	Status monitoring	N/A	<ul style="list-style-type: none"> Maintain awareness of status of the review. Monitor the overall situation with the four recommended Access Dashboard Reports (assisted by SOD Coordinator) : <ul style="list-style-type: none"> GRC Report 1 – Risk Violations GRC Report 2 – User Analysis GRC Report 3 – Violations Comparisons GRC Report 4 – Access Rule library
A	ANNUAL			
A1	GRC ADMIN	Provide information on MC assignments	<ul style="list-style-type: none"> Risk / User → Mitigation Control report 	<ul style="list-style-type: none"> Generate the Risk / User → Mitigation Control report – per Risk Owner <ul style="list-style-type: none"> GRC-ARA Report 11a Mitigation Control Report = List GRC-ARA Report 11b Mitigated Object Report <ul style="list-style-type: none"> Report by User / User Group GRC-ARA Report 12 Risk Analysis – User level <ul style="list-style-type: none"> Run with option showing Invalid users assignments (MC assigned but no longer have the risk).

GRC Training – Business Systems Analysts (IS&T)

P.5 STEP	Business Role	Responsibility / Action	Output	Details
A2	ROLE OWNER	Review and propose recertification	•	<ul style="list-style-type: none"> Identify any MCs that are no longer in place - rare Identify any assignments that are no longer valid – these will not be recertified – should be unusual, but could be due to job transfers / resignations not fully processed. Propose the recertification list to the Risk Owner
A3	RISK OWNER		•	<ul style="list-style-type: none"> Review and approve recertification list. Advise GRC Admin to recertify the MCs

GRC Reporting

Job Aids

PURPOSE OF THIS DOCUMENT

Procedures on execution of each of the GRC Reports in scope for Business Analysts are documented in reporting Job Aids. The Job Aid for each report provides details on execution for each step of the report. For some reports, multiple report execution scenarios have been identified.

CONTENTS

- 01 Risk Violations
- 02 User Analysis
- 03 Violations Comparisons
- 04 Access Rule Library
- 05 SUIM Roles by Role Name
- 06 User to Role Relationship
- 07 Role Relationship with User - User Group
- 08 SUIM Users by User ID
- 09 Count Authorizations for Users
- 10 Action Usage by User Role and Profile
- 11 Mitigation Control Report
- 12 User Level
- 13 User Level Simulation
- 14 Role Level
- 15 Role Level Simulation
- 16 Profile Level
- 17 Profile Level Simulation

Job Aid 01 Risk Violations**USE**

This report can be used to gain insight into MIT's overall exposure to risk. The report provides an overview of risk violations across all MIT ECC systems.

INFORMATION



Risk count by risk level and process.

RELATED PROCESSES

- Process 5: Periodic Compliance Reviews

SPECIFIC SCENARIOS

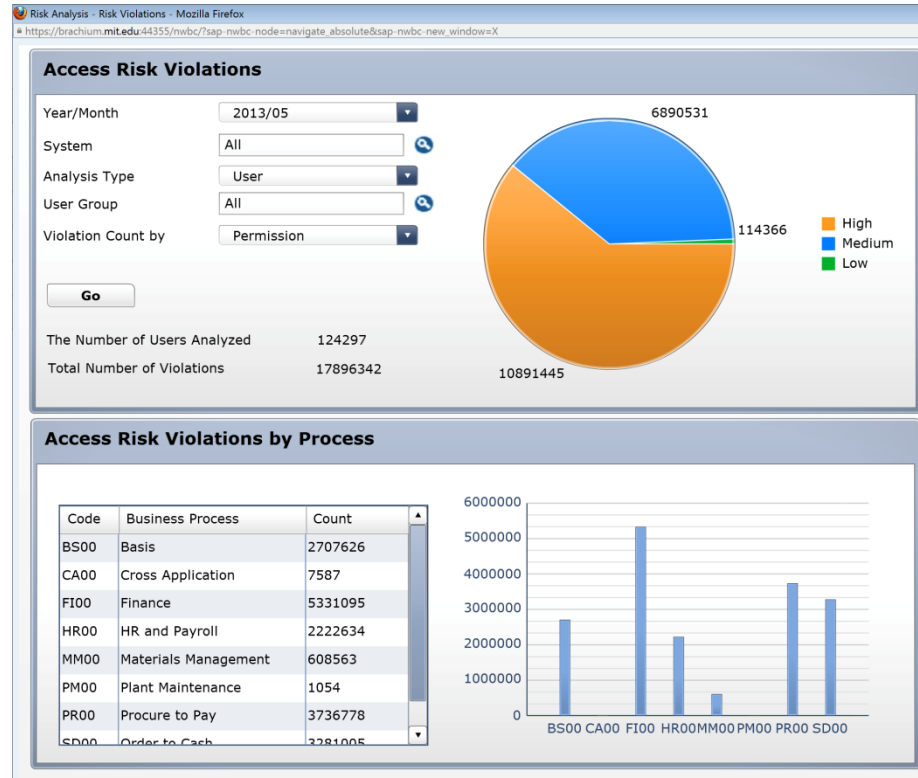
- Step 14A: Analyze report data by Risk Level. (Pie Chart)
- Step 14B: Analyze report data by Business Process. (Table)
- Step 14C: Analyze report data by Business Process. (Bar Graph)


Step	Description	Screenshot
1	Navigate to the 'Reports and Analytics' tab.	 <p>Reports and Analytics</p>
2	Click on the 'Risk Violations' report located in the 'Access Dashboards' section.	

3

The report will show risk violations information for the latest period, across all systems (to which GRC is connected) and user groups, at the user level. The count will be given by permission (i.e. each instance of a violation will be counted, even if it is a repeated violation for a user).

The report data must be appropriately filtered to provide information that can be of use to MIT.



4	<p>In the report filters section, click on the drop down for 'Year/Month' to select the time period for which data is required. In this case, '2013/05' is selected.</p>	 <p>The screenshot shows a web browser window titled 'Risk Analysis - Risk Violations - Mozilla Firefox'. The URL is 'https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new.v'. The main heading is 'Access Risk Violations'. Below it, there are several filter fields: 'Year/Month' (set to 2013/05), 'System' (set to 2013/05), 'Analysis Type' (set to 2013/04), 'User Group' (set to 2013/03), and 'Violation Count by' (set to 2013/02). A 'Go' button is located at the bottom left of the filter section.</p>
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5

In the report filters section, select the system for which information is required. Click on the search icon next to 'System'. Since the desired selection is PS1 (Production), select the connector for PS1. Click on 'OK'.

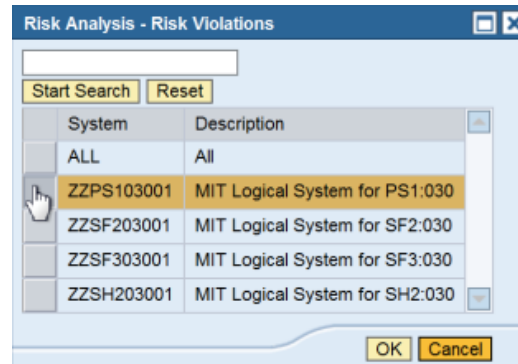


Risk Analysis - Risk Violations - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_win

Access Risk Violations

Year/Month: 2013/05
System: All
Analysis Type: User
User Group: All
Violation Count by: Permission

Go

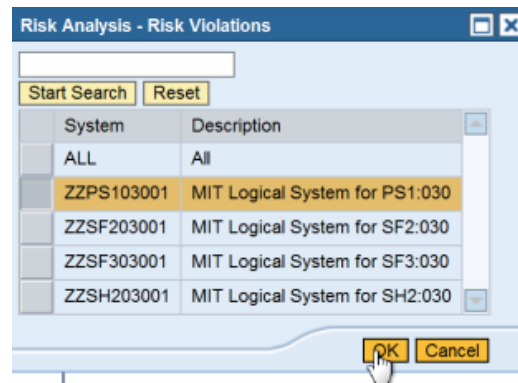


Risk Analysis - Risk Violations

Start Search Reset

System	Description
ALL	All
ZZPS103001	MIT Logical System for PS1:030
ZZSF203001	MIT Logical System for SF2:030
ZZSF303001	MIT Logical System for SF3:030
ZZSH203001	MIT Logical System for SH2:030

OK Cancel




Risk Analysis - Risk Violations

Start Search Reset

System	Description
ALL	All
ZZPS103001	MIT Logical System for PS1:030
ZZSF203001	MIT Logical System for SF2:030
ZZSF303001	MIT Logical System for SF3:030
ZZSH203001	MIT Logical System for SH2:030

OK Cancel

6	<p>In the report filters section, click on the drop down for 'Analysis Type' to select the security object (user, role or profile) for which data is required. In this case, 'User' is selected.</p>	 <p>The screenshot shows a web browser window titled 'Risk Analysis - Risk Violations - Mozilla Firefox'. The URL is 'https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_w'. The main heading is 'Access Risk Violations'. Below this, there are several filter fields: 'Year/Month' set to '2013/05', 'System' set to 'MIT Logical System for PS', 'Analysis Type' set to 'User', 'User Group' set to 'User', and 'Violation Count by' set to 'Role'. A hand cursor is pointing at the 'User' option in the 'Analysis Type' dropdown menu. A 'Go' button is located at the bottom left of the form.</p>
---	--	---

7

In the report filters section, select the user group for which information is required. Click on the search icon next to 'User Group'.

Enter search criteria to search for the desired user group. In this case, 'VPF-T*' is entered to search for all VPF user groups starting with 'T'.

Click on 'Start Search'. Select the desired user group from the search results. In this case, 'VPF-TAX' is selected.

Click on 'OK'.



Risk Analysis - Risk Violations - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_win

Access Risk Violations

Year/Month: 2013/05

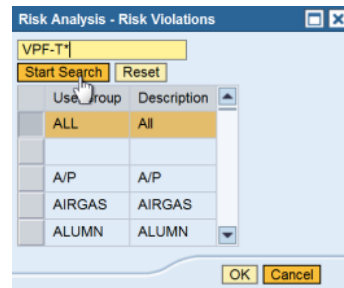
System: MIT Logical System for PS

Analysis Type: User

User Group: All

Violation Count by: Permission

Go



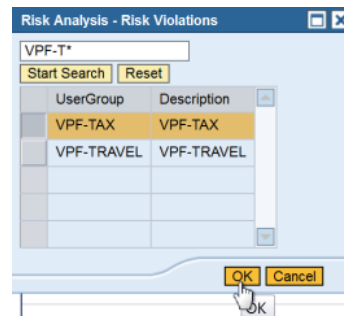
Risk Analysis - Risk Violations

VPF-T*

Start Search Reset

User Group	Description
ALL	All
A/P	A/P
AIRGAS	AIRGAS
ALUMN	ALUMN

OK Cancel



Risk Analysis - Risk Violations

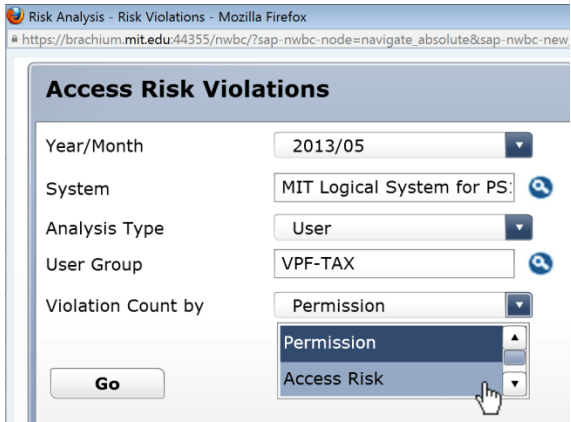
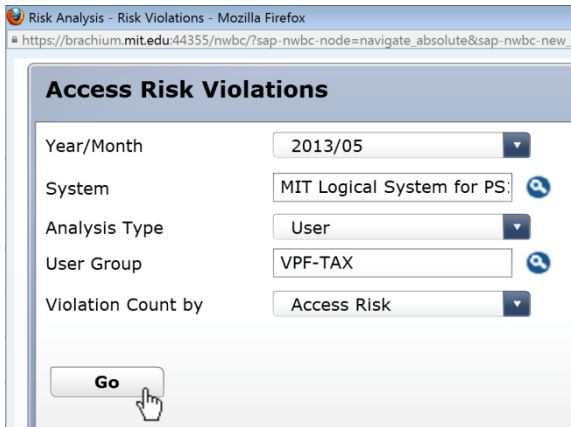
VPF-T*

Start Search Reset

UserGroup	Description
VPF-TAX	VPF-TAX
VPF-TRAVEL	VPF-TRAVEL

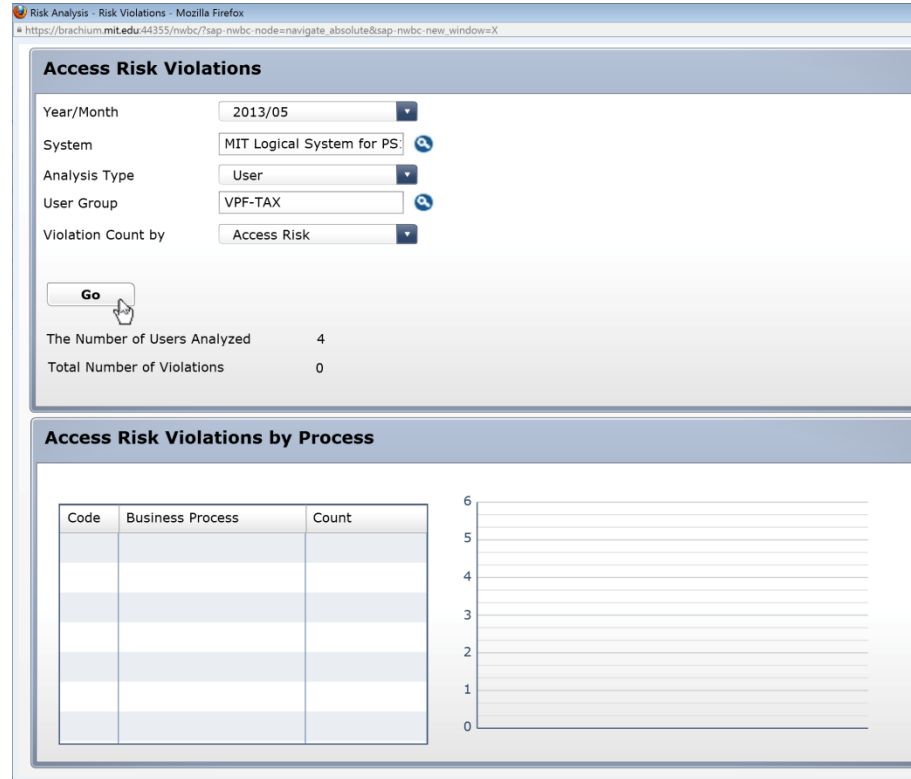
OK Cancel

OK

8	<p>In the report filters section, click on the drop down for 'Violation Count by' to select the count methodology required for the report. In this case, 'Access Risk' is selected to count unique violations per user.</p>	 <p>The screenshot shows a web browser window titled 'Risk Analysis - Risk Violations - Mozilla Firefox'. The URL is 'https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new...'. The page has a header 'Access Risk Violations'. Below the header are several filter fields: 'Year/Month' (2013/05), 'System' (MIT Logical System for PS), 'Analysis Type' (User), 'User Group' (VPF-TAX), and 'Violation Count by' (Permission). The 'Violation Count by' dropdown menu is open, showing 'Permission' and 'Access Risk' options. A mouse cursor is pointing at 'Access Risk'. There is a 'Go' button at the bottom left of the filter section.</p>
9	<p>Click on 'Go' to execute the report based on the criteria that have been defined.</p>	 <p>The screenshot shows the same web browser window as the previous one. The 'Violation Count by' dropdown menu is now closed, and 'Access Risk' is selected. The 'Go' button is highlighted with a mouse cursor.</p>

10

The report shows that there are a total of 4 users in the 'VPF-TAX' user group. The report also shows that these 4 users have 0 unmitigated violations. No pie chart, business process table, or business process bar graph are shown due to the fact that the violation count is 0.



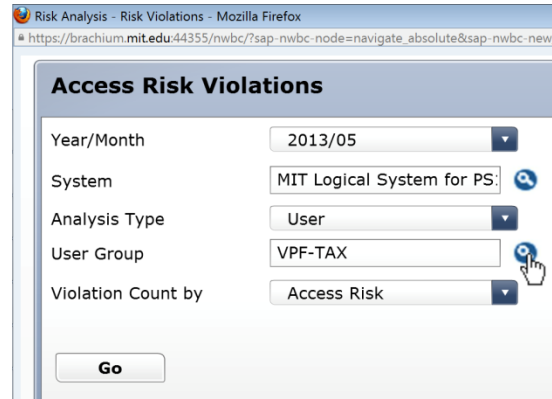
11

In the report filters section, select another user group for which information is required. Click on the search icon next to 'User Group'.

Enter search criteria to search for the desired user group. In this case, 'VPF-T*' is entered to search for all VPF user groups starting with 'T'.

Click on 'Start Search'. Select the desired user group from the search results. In this case, 'VPF-TRAVEL' is selected.

Click on 'OK'.



Risk Analysis - Risk Violations - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new.v

Access Risk Violations

Year/Month: 2013/05

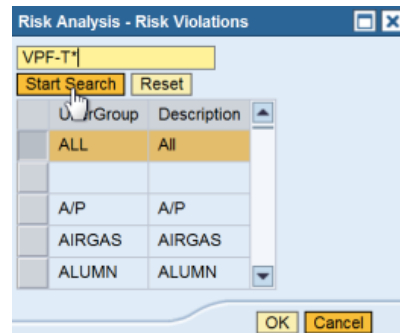
System: MIT Logical System for PS:

Analysis Type: User

User Group: VPF-TAX

Violation Count by: Access Risk

Go



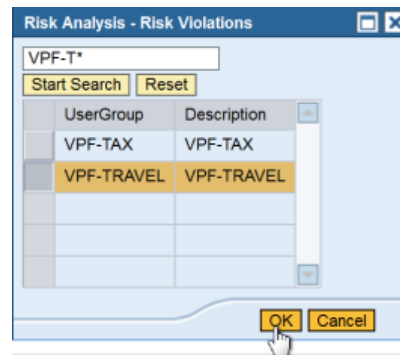
Risk Analysis - Risk Violations

VPF-T*

Start Search Reset

UserGroup	Description
ALL	All
A/P	A/P
AIRGAS	AIRGAS
ALUMN	ALUMN

OK Cancel



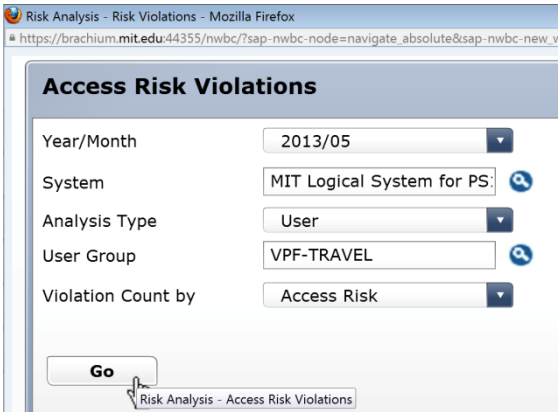
Risk Analysis - Risk Violations

VPF-T*

Start Search Reset

UserGroup	Description
VPF-TAX	VPF-TAX
VPF-TRAVEL	VPF-TRAVEL

OK Cancel

12	Click on 'Go' to execute the report based on the updated criteria that have been defined.	
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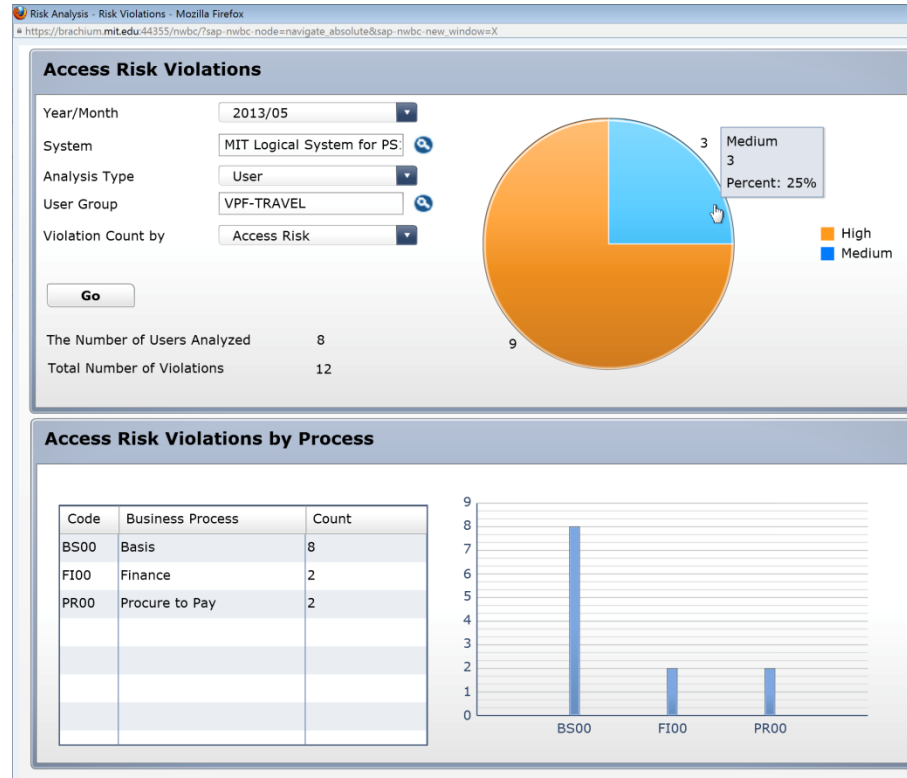
13

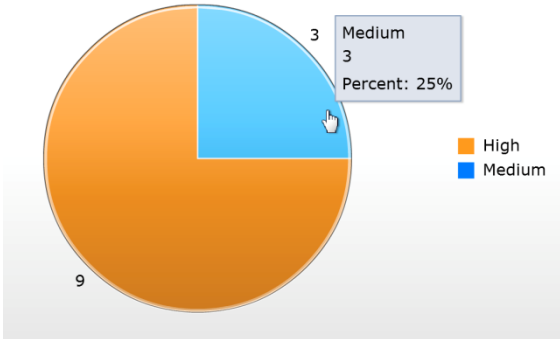
The report shows that there are a total of 8 users in the 'VPF-TRAVEL' user group. The report also shows that these 8 users have 12 unmitigated violations.

The graphic displays are populated based on information regarding the 12 unmitigated violations.

The User Level analysis report (12), reports that:

- 8 users have unmitigated Basis Critical Transactions
- 2 users have unmitigated Finance SODs
- 2 users have unmitigated Procure to Pay SODs



14A-1	<p>Analyze report data by risk level.</p> <p>Scroll over the different pieces of the pie chart to see information about unmitigated violations at each risk level.</p> <p>Click on the 'Medium' risk level piece of the pie chart for more information about medium risks.</p>	 <table><thead><tr><th>Risk Level</th><th>Count</th><th>Percent</th></tr></thead><tbody><tr><td>High</td><td>9</td><td>75%</td></tr><tr><td>Medium</td><td>3</td><td>25%</td></tr></tbody></table>	Risk Level	Count	Percent	High	9	75%	Medium	3	25%
Risk Level	Count	Percent									
High	9	75%									
Medium	3	25%									

14A-2 Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Access Risk: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Description: Business description of the Access Risk

Business Process: The 4-digit ID representing the Business Process to which the Access Risk has been mapped in the standard rule set

Business Process Description: The business description for the Business Process to which the Access Risk has been mapped in the standard rule set

No. of Violations: The number of violations for each Access Risk that exist

Risk Violation Drilldown Report - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

System ZZPS103001
Rule Set GLOBAL,ZAUDIT
Last Updated On 05/11/2013 14:01:35

Medium Access Risk Violations - User Level

View: [Standard View] | Display As: Table | Print Version | Export | Filter Settings

Access Risk ID	Description	Business Process	Business Process Description	No. of Violations
F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	FI00	Finance	1
F029	Adjust the AR subsidiary balance using AR payments and then conceal with journal entries	FI00	Finance	1
P037	Requisition an item and then release a requisition	PR00	Procure to Pay	1

14A-3 Click on the 'No. of Violations' link for each Access Risk to view the Users that have violations for that Risk. In this case, clicking on '1' for Access Risk 'F028' shows the 7 VPF-TRAVEL Users that have related violations.

Risk Violation Drilldown Report - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

System ZZPS103001
Rule Set GLOBAL_ZAUDIT
Last Updated On 05/11/2013 14:01:35

Medium Access Risk Violations - User Level

View: [Standard View] Display As: Table Print Version Export Filter Settings

Access Risk ID	Description	Business Process	Business Process Description	No. of Violations
F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	FI00	Finance	1
F029	Adjust the AR subsidiary balance using AR payments and then conceal with journal entries	FI00	Finance	
P037	Requisition an item and then release a requisition	PR00	Procure to Pay	1

Risk Violation Drilldown Report - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

System ZZPS103001
Access Risk ID F028
Last Updated On 05/11/2013 14:01:35

Medium Access Risk Violations - User Level

View: [Standard View] Display As: Table Print Version Export Filter Settings

Object ID	Description	User Group	Telephone Number	Department
DEVINMW	Mead-Ward, Devin	VPF-TRAVEL	617 253-4655	
D_ROTH	Roth, Daniel Joseph	VPF-TRAVEL	617 253-0307	
GREGLEON	Leonelli, Gregory	VPF-TRAVEL		
KHARMON	Harmon, Kimberly J	VPF-TRAVEL	617 253-8360	Purchasing
KMCGRATH	McGrath, Kathleen	VPF-TRAVEL	617 253-8366	
SECHRIST	Sechrist, Kara Byrne	VPF-TRAVEL	617 324-5289	
SIWY	Siwy, Steven	VPF-TRAVEL	617 258-8879	

14B-1 Analyze report data by Business Process.

Scroll over the different line items of the Business Process Table to see information about unmitigated violations for each Business Process.

Click on the 'Finance' risk level row of the Table for more information about Finance Risks.

Code	Business Process	Count
BS00	Basis	8
FI00	Finance	2
PR00	Procure to Pay	2

14B-2 Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Access Risk: The 4-digit ID representing each Finance-Risk (as defined in the standard rule set) for which violations exist

Description: Business description of the Access Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

No. of Violations: The number of violations for each Access Risk that exist

Risk Violation Drilldown Report - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

System ZZPS103001
Rule Set GLOBAL_ZAUDIT
Last Updated On 05/11/2013 14:01:35

F100 Access Risk Violations - User Level

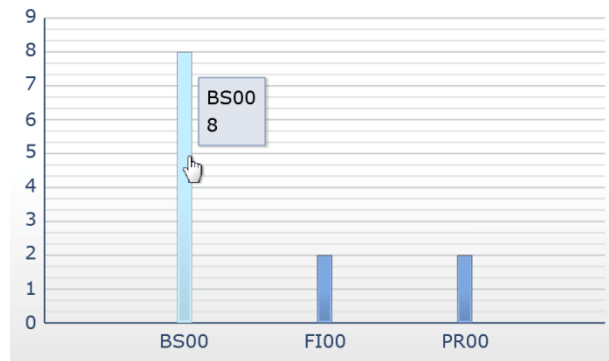
View: [Standard View] Display As: Table Print Version Export Filter Settings

Access Risk ID	Description	Risk Level	No. of Violations
F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	Medium	1
F029	Adjust the AR subsidiary balance using AR payments and then conceal with journal entries	Medium	1

14C-1 Analyze report data by Business Process.

Scroll over the different bars of the Business Process Bar Graph to see information about unmitigated violations for each Business Process.

Click on the 'BS00' Risk bar of the Graph for more information about Basis Risks.



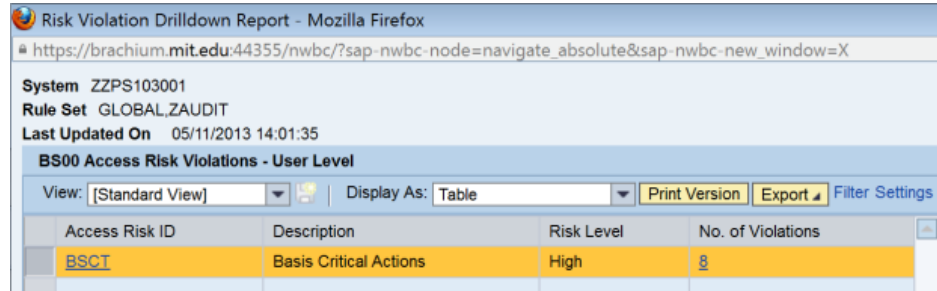
14C-2 Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Access Risk: The 4-digit ID representing each Basis-Risk (as defined in the standard rule set) for which violations exist

Description: Business description of the Access Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

No. of Violations: The number of violations for each Access Risk that exist



The screenshot shows a web browser window titled "Risk Violation Drilldown Report - Mozilla Firefox". The address bar displays the URL: https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X. Below the address bar, the following information is displayed:

- System: ZZPS103001
- Rule Set: GLOBAL,ZAUDIT
- Last Updated On: 05/11/2013 14:01:35

The main heading is "BS00 Access Risk Violations - User Level". Below this, there are controls for "View: [Standard View]" and "Display As: Table", along with buttons for "Print Version", "Export", and "Filter Settings". A table is displayed with the following columns: "Access Risk ID", "Description", "Risk Level", and "No. of Violations". The table contains one row with the following data:

Access Risk ID	Description	Risk Level	No. of Violations
BSCT	Basis Critical Actions	High	8

Job Aid 02 User Analysis**USE**

This report can be used to gain insight into MIT's overall exposure to risk. The report provides an overview of user violations across all MIT ECC systems.

INFORMATION


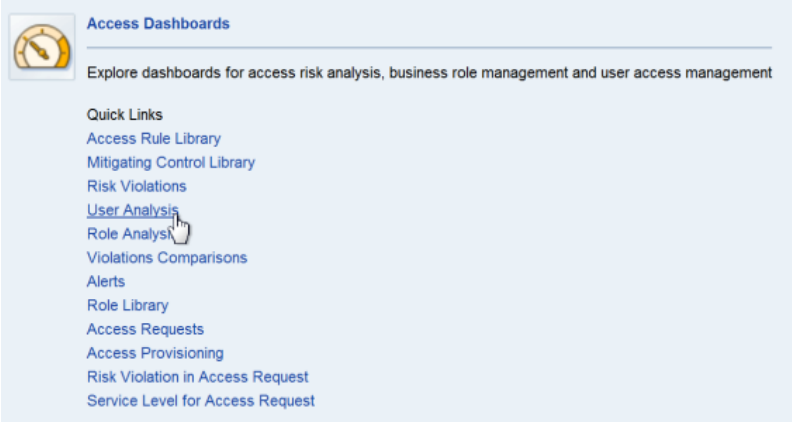
Risk count by risk type and user.

RELATED PROCESSES

- Process 5: Periodic Compliance Reviews

SPECIFIC SCENARIOS

- Step 13A: Analyze report data by Mitigated Users. (Pie Chart)
- Step 13B: Analyze report data by Risk Level. (Pie Chart)
- Step 13C: Analyze report data by Critical Actions, Roles and Profiles. (Bar Graph)

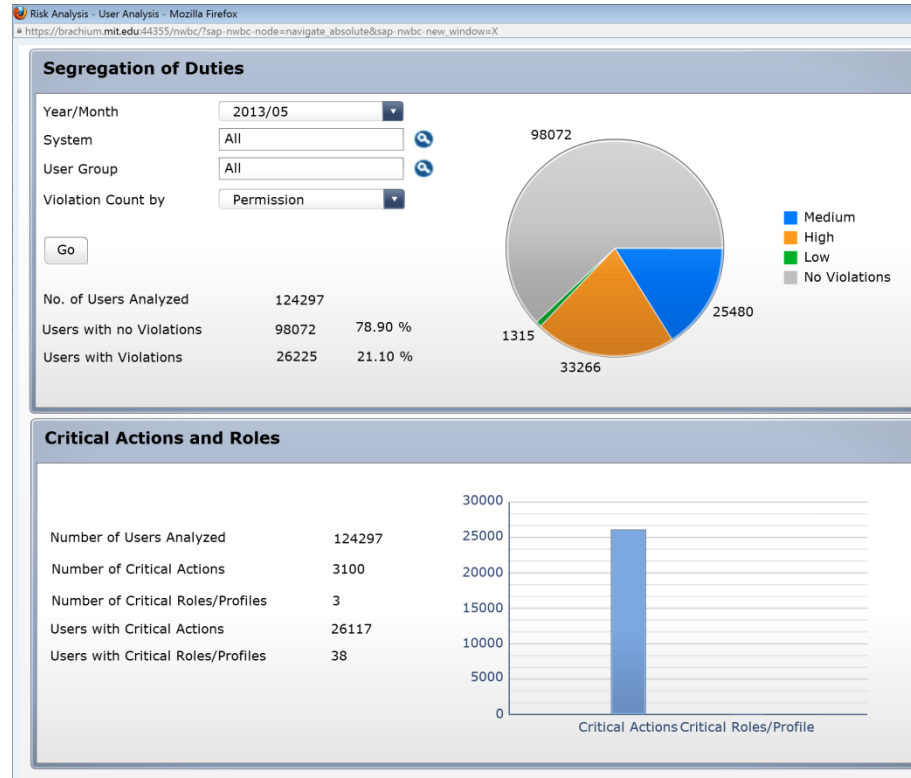
Step	Description	Screenshot
1	Navigate to the 'Reports and Analytics' tab.	 <p>Reports and Analytics</p>
2	Click on the 'User Analysis' report located in the 'Access Dashboards' section.	

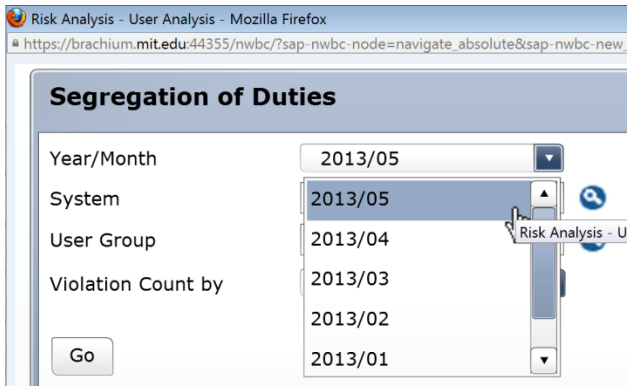
3

The report will show risk violations and critical actions, roles and profiles information for the latest period, across all systems (to which GRC is connected) and user groups, at the user level. The violation count will be given by permission (i.e. each instance of a violation will be counted, even if it is a repeated violation for a user).

The 'Critical Actions and Roles' section will state the number of each that were evaluated for the selected user group.

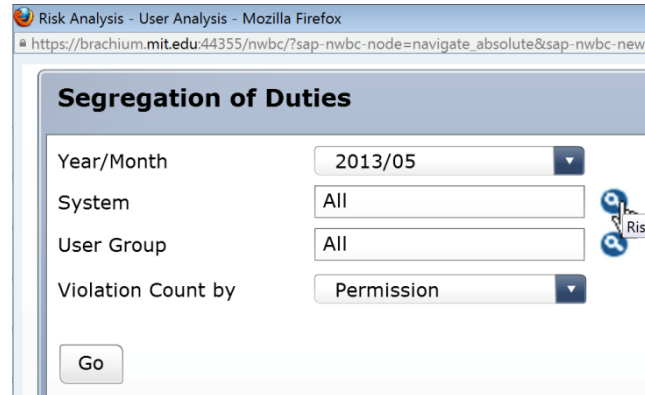
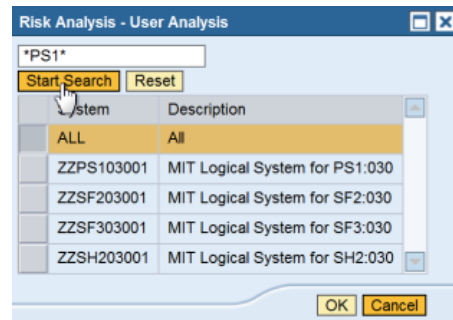
The report data must be appropriately filtered to provide information that can be of use to MIT.



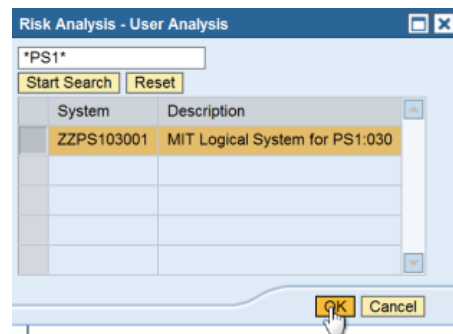
4	<p>In the report filters section, click on the drop down for 'Year/Month' to select the time period for which data is required. In this case, '2013/05' is selected.</p>	
---	--	--

5

In the report filters section, select the System for which information is required. Click on the Search icon next to 'System'. Since the desired selection is PS1 (Production), select the Connector for PS1; if necessary, '*PS1*' can be used as search criteria to find the correct connector for PS1. Click on 'OK'.

System	Description
ALL	All
ZZPS103001	MIT Logical System for PS1:030
ZZSF203001	MIT Logical System for SF2:030
ZZSF303001	MIT Logical System for SF3:030
ZZSH203001	MIT Logical System for SH2:030



System	Description
ZZPS103001	MIT Logical System for PS1:030

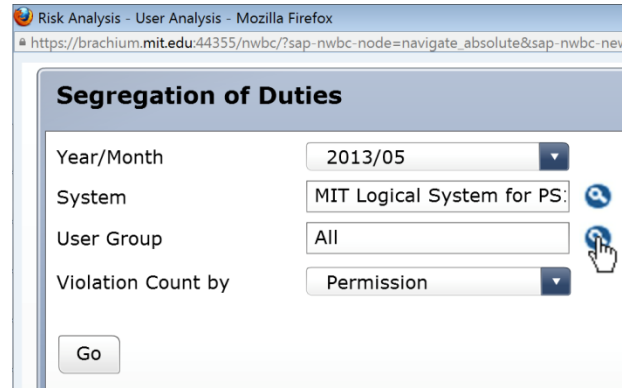
6

In the report filters section, select the user group for which information is required. Click on the Search icon next to 'User Group'.

Enter search criteria to search for the desired user group. In this case, 'VPF-T*' is entered to search for all VPF user groups starting with 'T'.

Click on 'Start Search'. Select the desired user group from the search results. In this case, 'VPF-TAX' is selected.

Click on 'OK'.

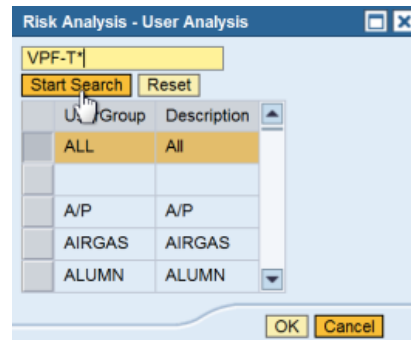


Risk Analysis - User Analysis - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new

Segregation of Duties

Year/Month: 2013/05
System: MIT Logical System for PS
User Group: All
Violation Count by: Permission

Go



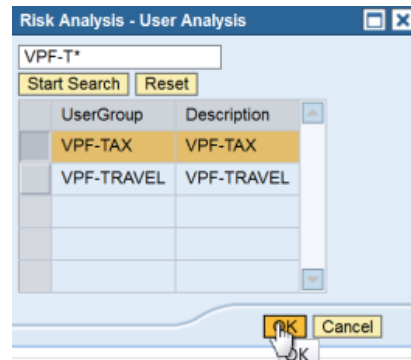
Risk Analysis - User Analysis

VPF-T*

Start Search Reset

User Group	Description
ALL	All
A/P	A/P
AIRGAS	AIRGAS
ALUMN	ALUMN

OK Cancel



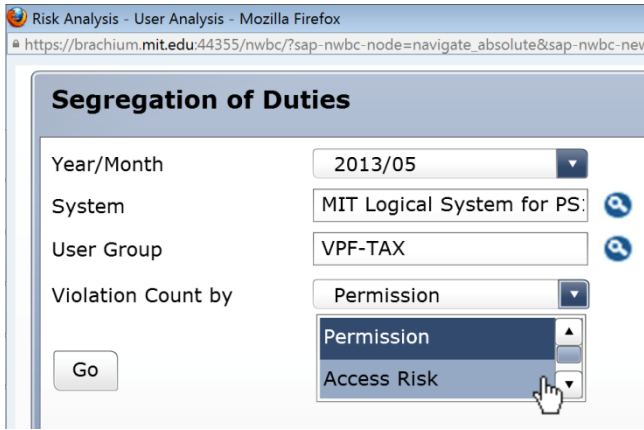
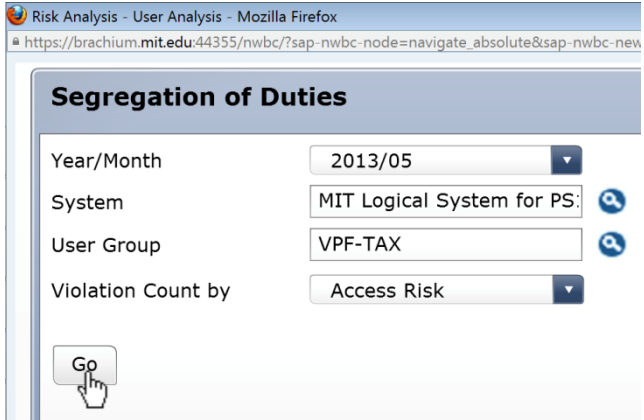
Risk Analysis - User Analysis

VPF-T*

Start Search Reset

UserGroup	Description
VPF-TAX	VPF-TAX
VPF-TRAVEL	VPF-TRAVEL

OK Cancel

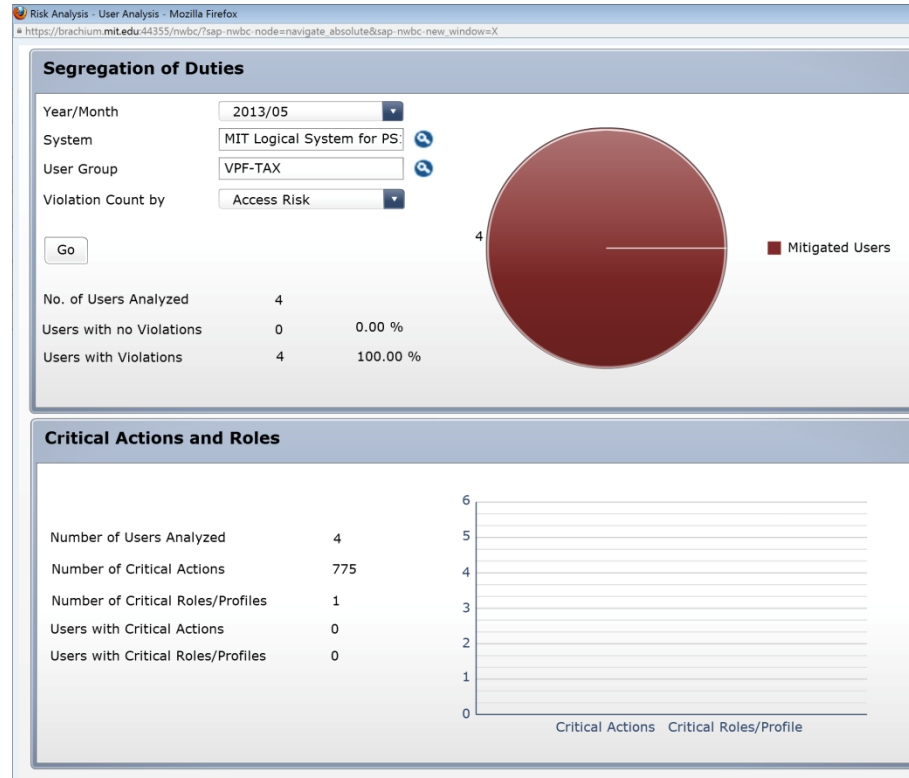
7	<p>In the report filters section, click on the drop down for 'Violation Count by' to select the count methodology required for the report. In this case, 'Access Risk' is selected to count unique violations per User.</p>	 <p>The screenshot shows a web browser window titled 'Risk Analysis - User Analysis - Mozilla Firefox'. The URL is 'https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new'. The page title is 'Segregation of Duties'. Below the title, there are four filter fields: 'Year/Month' (2013/05), 'System' (MIT Logical System for PS), 'User Group' (VPF-TAX), and 'Violation Count by' (Permission). The 'Violation Count by' dropdown menu is open, showing 'Permission' and 'Access Risk' options. A mouse cursor is pointing at 'Access Risk'. There is a 'Go' button below the filters.</p>
8	<p>Click on 'Go' to execute the report based on the criteria that have been defined.</p>	 <p>The screenshot shows the same web browser window as the previous one. The 'Violation Count by' dropdown menu is now closed, and 'Access Risk' is selected. The 'Go' button is highlighted with a mouse cursor.</p>

9

The report shows that there are a total of 4 Users in the 'VPF-TAX' user group. The report also shows that these 4 Users all have mitigated violations.

In the 'Critical Actions and Roles' section, the report shows:

- 4 Users were analyzed
- The users were evaluated for violations against 775 Critical Actions and 1 Critical Role/Profile
- 0 VPF-TAX Users have Critical Actions
- 0 VPF-TAX Users have Critical Roles/Profiles



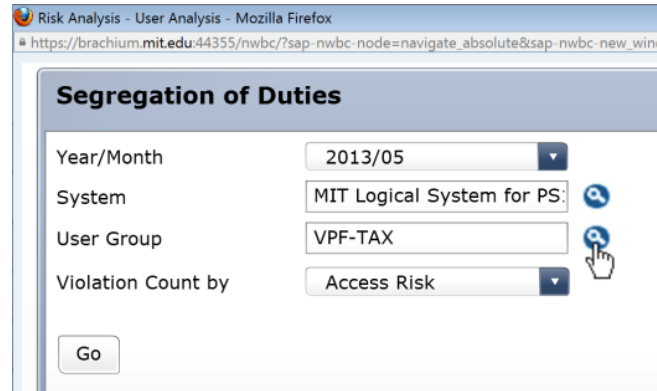
10

In the report filters section, select another user group for which information is required. Click on the Search icon next to 'User Group'.

Enter search criteria to search for the desired user group. In this case, 'VPF-T*' is entered to search for all VPF user groups starting with 'T'.

Click on 'Start Search'. Select the desired user group from the search results. In this case, 'VPF-TRAVEL' is selected.

Click on 'OK'.

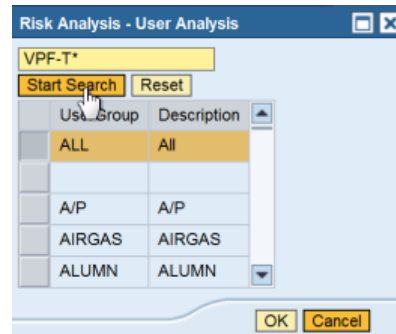


Risk Analysis - User Analysis - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_wind

Segregation of Duties

Year/Month: 2013/05
System: MIT Logical System for PS
User Group: VPF-TAX
Violation Count by: Access Risk

Go



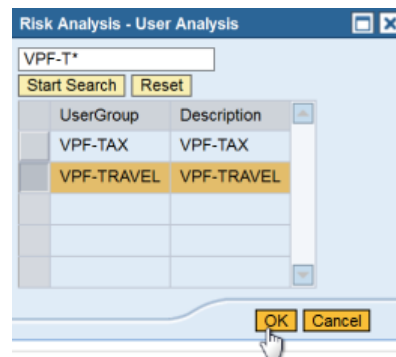
Risk Analysis - User Analysis

VPF-T*

Start Search Reset

User Group	Description
ALL	All
A/P	A/P
AIRGAS	AIRGAS
ALUMN	ALUMN

OK Cancel



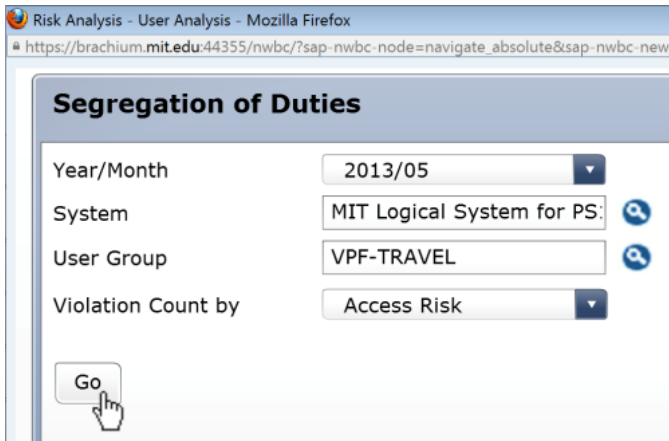
Risk Analysis - User Analysis

VPF-T*

Start Search Reset

UserGroup	Description
VPF-TAX	VPF-TAX
VPF-TRAVEL	VPF-TRAVEL

OK Cancel

11	Click on 'Go' to execute the report based on the updated criteria that have been defined.	
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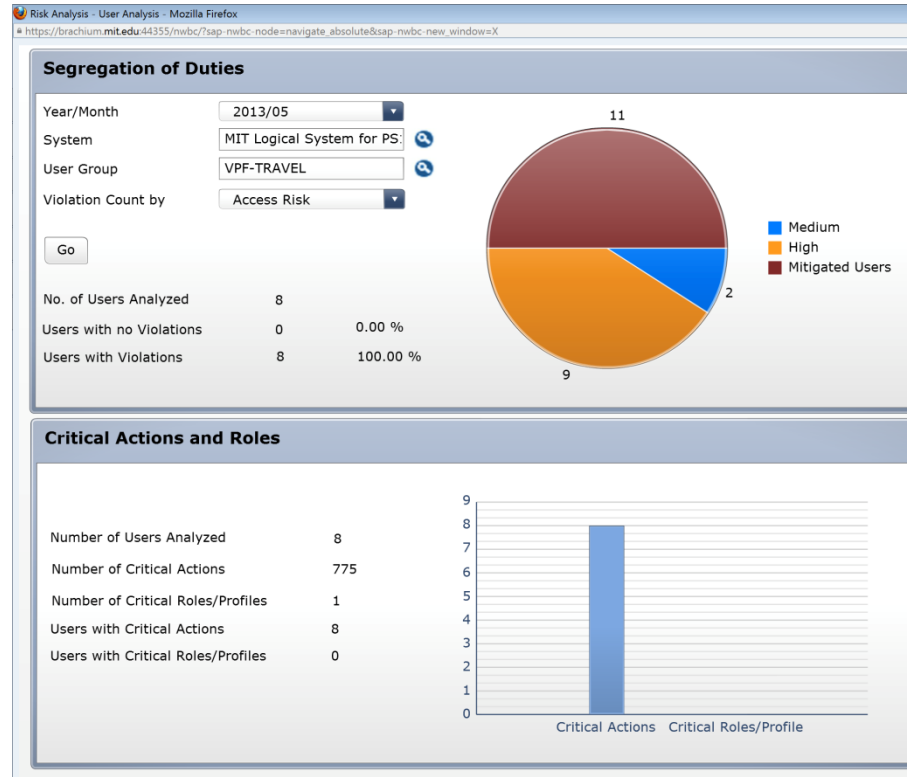
12

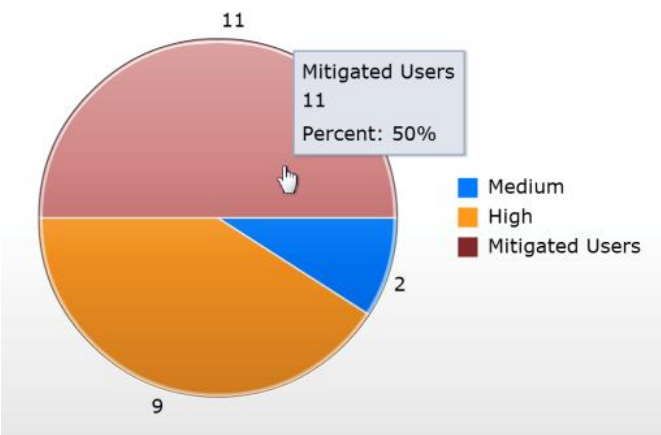
The report shows that there are a total of 8 Users in the 'VPF-TRAVEL' user group. The report also shows that these 8 Users have 11 mitigations, as well as 11 instances (9 High Risk + 2 Medium Risk) of Users with unmitigated violations.

NOTE: Each type of Violation – SOD, Critical Transaction, etc. – is counted only once per User. Thus, a User with only 2 SOD, contributes 1 to the violation count. And a User with 1 SOD and 1 Critical Action, contributes 2 to the violation count.

In the 'Critical Actions and Roles' section, the report shows:

- 8 users were analyzed
- The users were evaluated for violations against 775 Critical Actions and 1 Critical Role/Profile
- 8 VPF-TRAVEL users have Critical Actions
- 0 VPF-TRAVEL users have Critical Roles/Profiles



13A-1	<p>Analyze report data by mitigated users.</p> <p>Scroll over the different pieces of the pie chart to see information about mitigated violations as well as unmitigated violations at different risk levels.</p> <p>Click on the 'Mitigated Users' piece of the pie chart for more information about VPF-TRAVEL users that have Mitigated Risks.</p>	 <p>A pie chart illustrating the distribution of risk levels for VPF-TRAVEL users. The chart is divided into three segments: a large red segment representing 'Mitigated Users' with a value of 11 (50% of the total), an orange segment representing 'High' risk with a value of 9, and a small blue segment representing 'Medium' risk with a value of 2. A legend on the right identifies the colors: blue for Medium, orange for High, and red for Mitigated Users. A tooltip is displayed over the red segment, showing 'Mitigated Users', '11', and 'Percent: 50%'.</p> <table><thead><tr><th>Risk Level</th><th>Count</th><th>Percentage</th></tr></thead><tbody><tr><td>Mitigated Users</td><td>11</td><td>50%</td></tr><tr><td>High</td><td>9</td><td>45%</td></tr><tr><td>Medium</td><td>2</td><td>10%</td></tr></tbody></table>	Risk Level	Count	Percentage	Mitigated Users	11	50%	High	9	45%	Medium	2	10%
Risk Level	Count	Percentage												
Mitigated Users	11	50%												
High	9	45%												
Medium	2	10%												

13A-2 Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

User Name: User name associated with the user ID

User Group: User group code

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Risk Description: Business description of the Access Risk

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

User/Role Violations Mgmt Drilldown - Mozilla Firefox

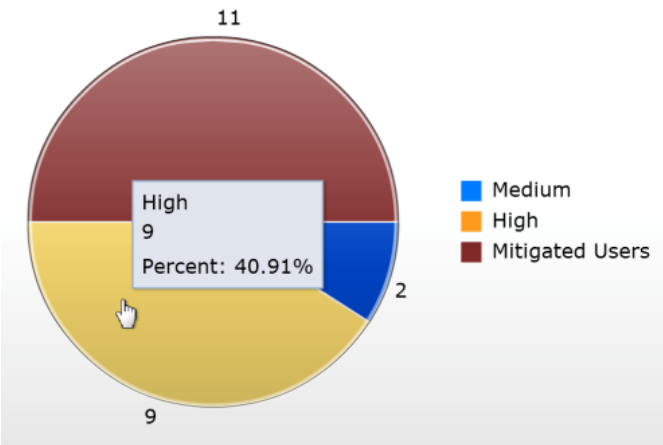
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Mitigated Users - User Analysis

View: [Standard View] [Print Version] [Export]

Filter Settings

User ID	User Name	User Group	Access Risk ID	Risk Description	Control	Monitor
SIWY	Siwy,Steven	VPF-TRAVEL	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	MC_TRV_002	KMCGRATH
SIWY	Siwy,Steven	VPF-TRAVEL	F029	Adjust the AR subsidiary balance using AR payments and then conceal with journal entries	MC_TRV_001	KMCGRATH
SIWY	Siwy,Steven	VPF-TRAVEL	P003	Create fictitious vendor invoice and initiate payment for it	MC_TRV_002	KMCGRATH
KHARMON	Harmon,Kimberly J	VPF-TRAVEL	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	MC_TRV_002	KMCGRATH
DEVINMW	Mead-Ward,Devin	VPF-TRAVEL	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	MC_TRV_002	KMCGRATH
DEVINMW	Mead-Ward,Devin	VPF-TRAVEL	F029	Adjust the AR subsidiary balance using AR payments and then conceal with journal entries	MC_TRV_001	KMCGRATH
DEVINMW	Mead-Ward,Devin	VPF-TRAVEL	P003	Create fictitious vendor invoice and initiate payment for it	MC_TRV_002	KMCGRATH
D_ROTH	Roth,Daniel Joseph	VPF-TRAVEL	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	MC_TRV_002	KMCGRATH
D_ROTH	Roth,Daniel Joseph	VPF-TRAVEL	F029	Adjust the AR subsidiary balance using AR payments and then conceal with journal entries	MC_TRV_001	KMCGRATH
D_ROTH	Roth,Daniel Joseph	VPF-TRAVEL	P003	Create fictitious vendor invoice and initiate payment for it	MC_TRV_002	KMCGRATH

13B-1	<p>Analyze report data by risk level.</p> <p>Click on the 'High' risks piece of the pie chart for more information about VPF-TRAVEL Users that have high risk level risks.</p>	 <p>The pie chart displays the distribution of risk levels for VPF-TRAVEL Users. The data is as follows:</p> <table border="1"> <thead> <tr> <th>Risk Level</th> <th>Count</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Mitigated Users</td> <td>11</td> <td>59.09%</td> </tr> <tr> <td>High</td> <td>9</td> <td>40.91%</td> </tr> <tr> <td>Medium</td> <td>2</td> <td>10.00%</td> </tr> </tbody> </table> <p>A tooltip is shown for the 'High' risk category, indicating a count of 9 and a percentage of 40.91%.</p>	Risk Level	Count	Percentage	Mitigated Users	11	59.09%	High	9	40.91%	Medium	2	10.00%
Risk Level	Count	Percentage												
Mitigated Users	11	59.09%												
High	9	40.91%												
Medium	2	10.00%												

13B-2 Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

User Name: User name associated with the user ID

User Group: User group code

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Risk Description: Business description of the Access Risk

Business Process: The 4-digit ID representing the Business Process to which the Access Risk has been mapped in the standard rule set

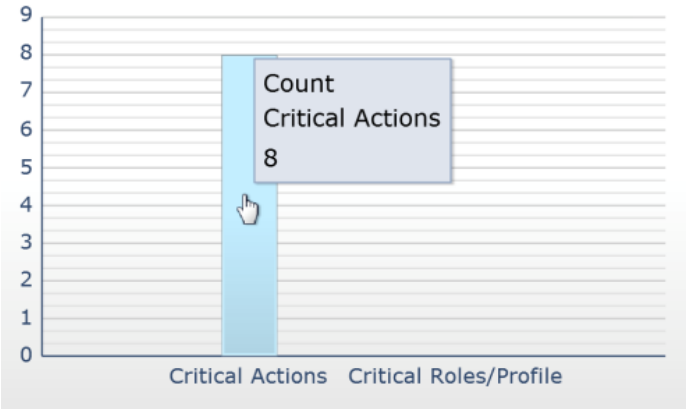
Business Process Description: The business description for the Business Process to which the Access Risk has been mapped in the standard rule set

User/Role Violations Mgmt Drilldown - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

High Access Risk Violations - User Analysis

View: [Standard View] [Print Version] [Export] Filter Settings

User ID	User Name	User Group	Access Risk ID	Risk Description	Business Process	Business Process Description
GREGLEON	Leonelli, Gregory	VPF-TRAVEL	BSCT	Basis Critical Actions	BS00	Basis
GREGLEON	Leonelli, Gregory	VPF-TRAVEL	P003	Create fictitious vendor invoice and initiate payment for it	PR00	Procure to Pay
SIWY	Siwy, Steven	VPF-TRAVEL	BSCT	Basis Critical Actions	BS00	Basis
KHARMON	Harmon, Kimberly J	VPF-TRAVEL	BSCT	Basis Critical Actions	BS00	Basis
DEVINMW	Mead-Ward, Devin	VPF-TRAVEL	BSCT	Basis Critical Actions	BS00	Basis
D_ROTH	Roth, Daniel Joseph	VPF-TRAVEL	BSCT	Basis Critical Actions	BS00	Basis
SECHRIST	Sechrist, Kara Byrne	VPF-TRAVEL	BSCT	Basis Critical Actions	BS00	Basis
PANDER	Andersen, Paul	VPF-TRAVEL	BSCT	Basis Critical Actions	BS00	Basis
KMCGRATH	McGrath, Kathleen	VPF-TRAVEL	BSCT	Basis Critical Actions	BS00	Basis

<p>13C-1</p> <p>Analyze report data by Critical Actions, Roles and Profiles.</p> <p>Scroll over the different bars of the Bar Graph to see information about Critical Actions and Critical Roles/Profiles.</p> <p>Click on the 'Critical Actions' bar of the Graph for more information about Critical Actions violations.</p>	 <p>The graph displays two categories on the x-axis: 'Critical Actions' and 'Critical Roles/Profile'. The y-axis represents a count, ranging from 0 to 9. The 'Critical Actions' bar is highlighted in blue, and a tooltip indicates a count of 8. The 'Critical Roles/Profile' bar is not visible, suggesting a count of 0.</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>Critical Actions</td> <td>8</td> </tr> <tr> <td>Critical Roles/Profile</td> <td>0</td> </tr> </tbody> </table>	Category	Count	Critical Actions	8	Critical Roles/Profile	0
Category	Count						
Critical Actions	8						
Critical Roles/Profile	0						

13C-2 Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

User Name: User name associated with the user ID

User Group: User group code

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Risk Description: Business description of the Access Risk

User/Role Violations Mgmt Drilldown - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_wind

Critical Actions - User Analysis

View: [Standard View] [Print Version](#) [Export](#) [Filter Settings](#)

User ID	User Name	User Group	Access Risk ID	Risk Description
KHARMON	Harmon, Kimberly J	VPF-TRAVEL	BSCT	Basis Critical Actions
SIWY	Siwy, Steven	VPF-TRAVEL	BSCT	Basis Critical Actions
PANDER	Andersen, Paul	VPF-TRAVEL	BSCT	Basis Critical Actions
GREGLEON	Leonelli, Gregory	VPF-TRAVEL	BSCT	Basis Critical Actions
KMCGRATH	McGrath, Kathleen	VPF-TRAVEL	BSCT	Basis Critical Actions
D_ROTH	Roth, Daniel Joseph	VPF-TRAVEL	BSCT	Basis Critical Actions
DEVINMW	Mead-Ward, Devin	VPF-TRAVEL	BSCT	Basis Critical Actions
SECHRIST	Sechrist, Kara Byrne	VPF-TRAVEL	BSCT	Basis Critical Actions

Job Aid 03 Violations Comparisons**USE**

This report can be used to gain insight into the progress MIT is making with respect to reducing and mitigating risk exposure. The report provides an overview of violations remediation/mitigation progress.

INFORMATION


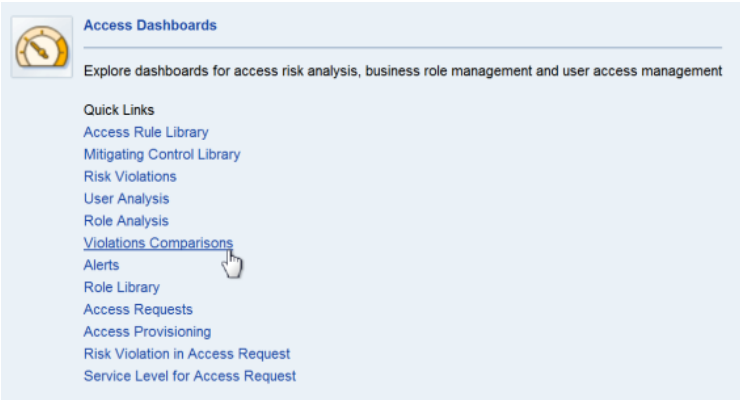
Violation count and comparison over time.

RELATED PROCESSES

- Process 5: Periodic Compliance Reviews

SPECIFIC SCENARIOS

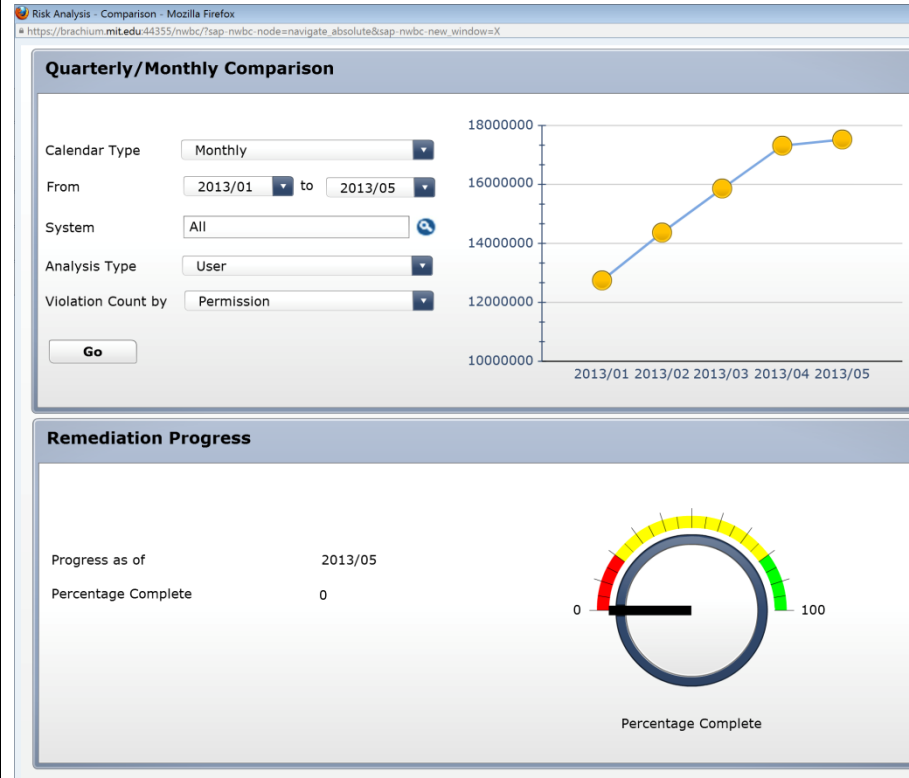
- N/A

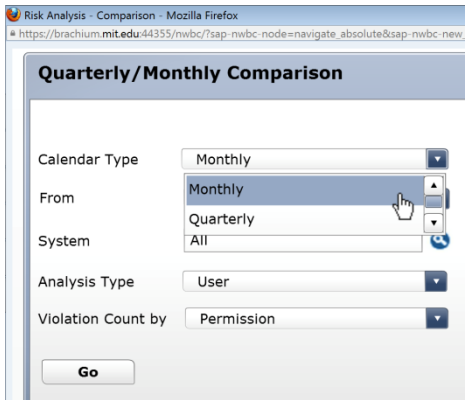
Step	Description	Screenshot
1	Navigate to the 'Reports and Analytics' tab.	 <p>Reports and Analytics</p>
2	Click on the 'Violations Comparisons' report located in the 'Access Dashboards' section.	

3

The report will show risk violations information over time, across all systems (to which GRC is connected) on a monthly basis, at the user level. The count will be given by permission (i.e. each instance of a violation will be counted, even if it is a repeated violation for a user).

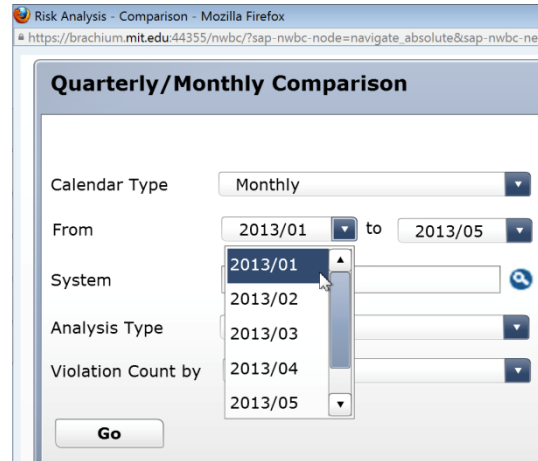
The report data must be appropriately filtered to provide information that can be of use to MIT.



4	<p>In the report filters section, click on the drop down for 'Calendar Type' to select the reporting periods by which data will be reported. In this case, 'Monthly' is selected.</p>	 <p>The screenshot shows a web browser window titled 'Risk Analysis - Comparison - Mozilla Firefox'. The URL is 'https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new...'. The main content area is titled 'Quarterly/Monthly Comparison'. It contains several filter fields: 'Calendar Type' (set to 'Monthly'), 'From' (set to 'Monthly'), 'System' (set to 'All'), 'Analysis Type' (set to 'User'), and 'Violation Count by' (set to 'Permission'). A 'Go' button is located at the bottom of the filter section.</p>
---	---	---

5

In the report filters section, click on the drop down for 'From' to select the start of the time period for which data is required. In this case, '2013/01' is selected. Next, click on the drop down for 'to' to select the end of the time period for which data is required. In this case, '2013/05' is selected.



Risk Analysis - Comparison - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new

Quarterly/Monthly Comparison

Calendar Type: Monthly

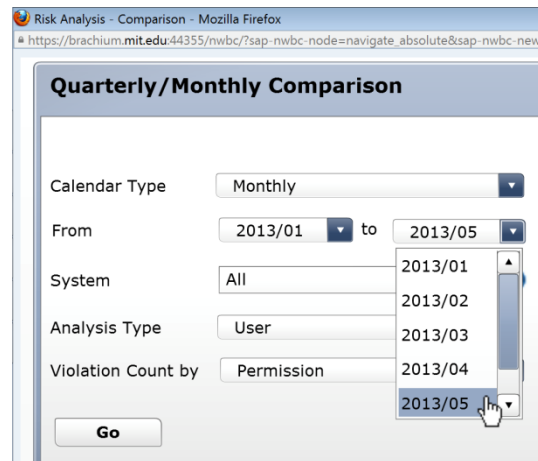
From: 2013/01 to 2013/05

System: 2013/01

Analysis Type: 2013/03

Violation Count by: 2013/04

Go



Risk Analysis - Comparison - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new

Quarterly/Monthly Comparison

Calendar Type: Monthly

From: 2013/01 to 2013/05

System: All

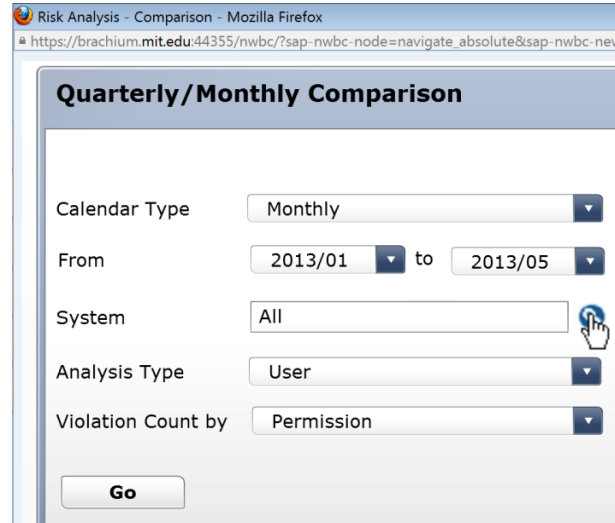
Analysis Type: User

Violation Count by: Permission

Go

6

In the report filters section, select the System for which information is required. Click on the Search icon next to 'System'. Since the desired selection is PS1 (Production), select the Connector for PS1; if necessary, '*PS1*' can be used as search criteria to find the correct connector for PS1. Click on 'OK'.



Risk Analysis - Comparison - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new

Quarterly/Monthly Comparison

Calendar Type: Monthly

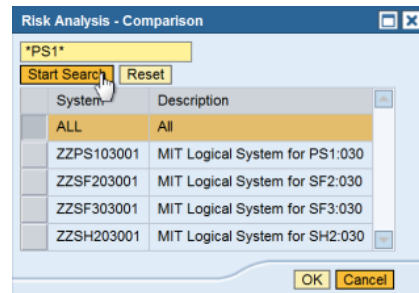
From: 2013/01 to 2013/05

System: All

Analysis Type: User

Violation Count by: Permission

Go



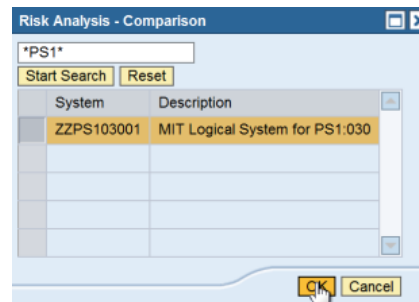
Risk Analysis - Comparison

PS1

Start Search Reset

System	Description
ALL	All
ZZPS103001	MIT Logical System for PS1:030
ZZSF203001	MIT Logical System for SF2:030
ZZSF303001	MIT Logical System for SF3:030
ZZSH203001	MIT Logical System for SH2:030

OK Cancel



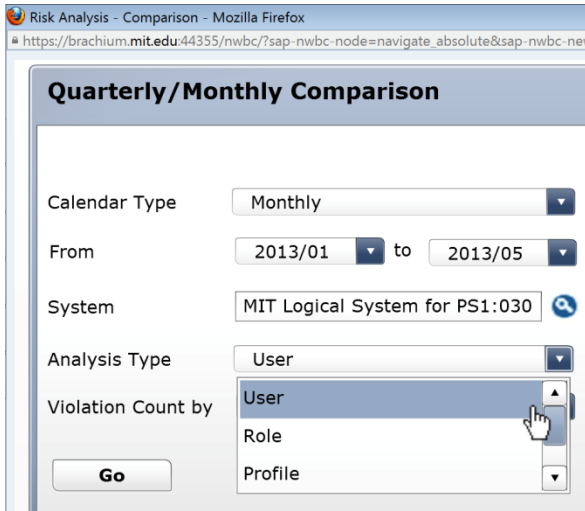
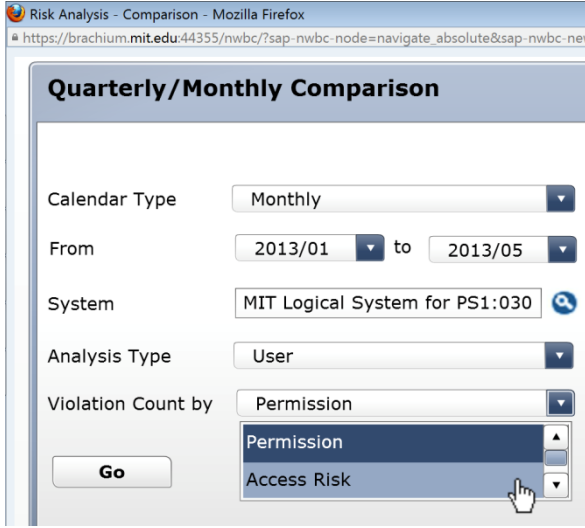
Risk Analysis - Comparison

PS1

Start Search Reset

System	Description
ZZPS103001	MIT Logical System for PS1:030

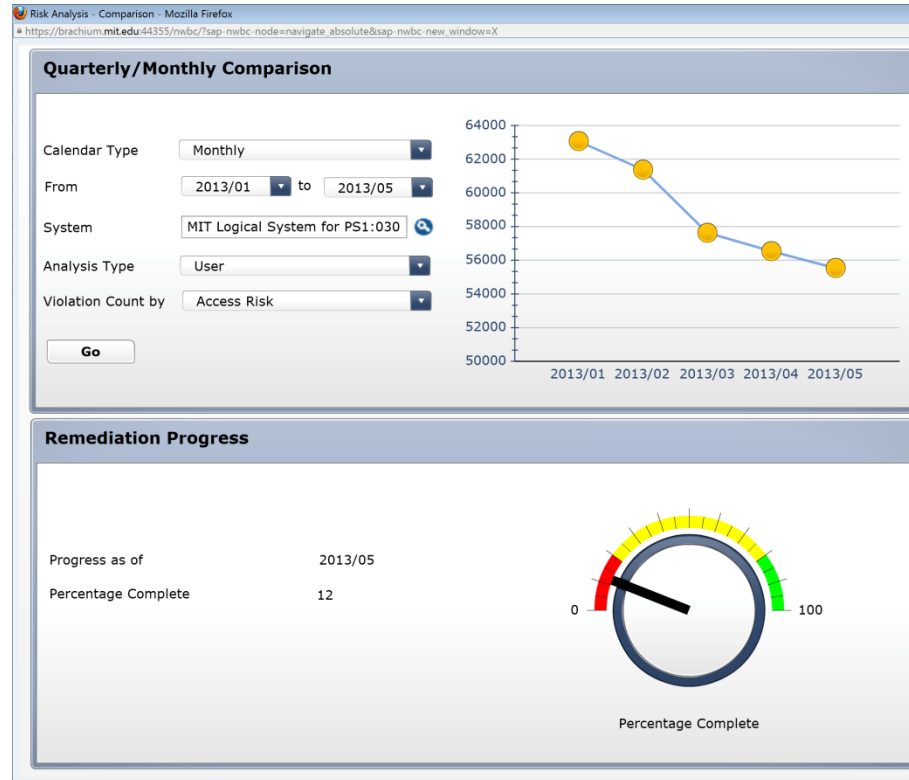
OK Cancel

7	<p>In the report filters section, click on the drop down for 'Analysis Type' to select the Security Object (User, Role or Profile) for which data is required. In this case, 'User' is selected.</p>	 <p>The screenshot shows the 'Risk Analysis - Comparison' interface in Mozilla Firefox. The 'Analysis Type' dropdown menu is open, showing options: User, Role, and Profile. 'User' is selected. The 'Violation Count by' dropdown is also open, showing options: User, Role, and Profile. The 'Go' button is visible at the bottom left of the form.</p>
8	<p>In the report filters section, click on the drop down for 'Violation Count by' to select the count methodology required for the report. In this case, 'Access Risk' is selected to count unique violations per User.</p>	 <p>The screenshot shows the 'Risk Analysis - Comparison' interface in Mozilla Firefox. The 'Violation Count by' dropdown menu is open, showing options: Permission and Access Risk. 'Access Risk' is selected. The 'Go' button is visible at the bottom left of the form.</p>

9	Click on 'Go' to execute the report based on the criteria that have been defined.	
---	---	--

10

The report shows the steady decrease in Access Risk violations in MIT's Production System since the start of the SOD/GRC initiative. A cleanup of the majority of the VPF Areas has yielded a cleanup of 12% of the PS1 system.



Job Aid 04 Access Rule Library**USE**

This report can be used to understand MIT's GRC rule set. The report provides an overview of risk rules in GRC.

INFORMATION


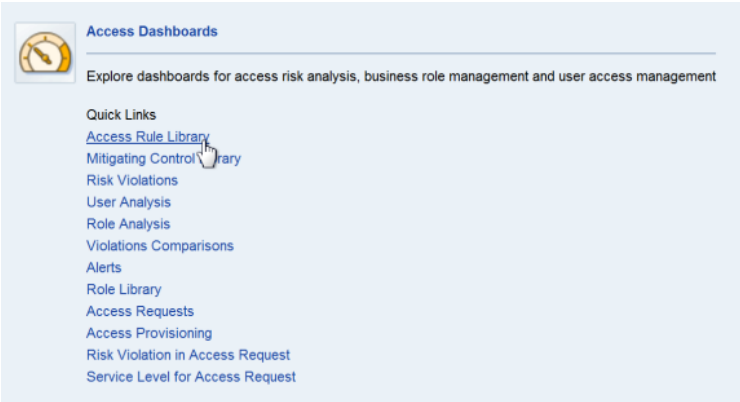
Rule count by risk level and process.

RELATED PROCESSES

- Process 5: Periodic Compliance Reviews

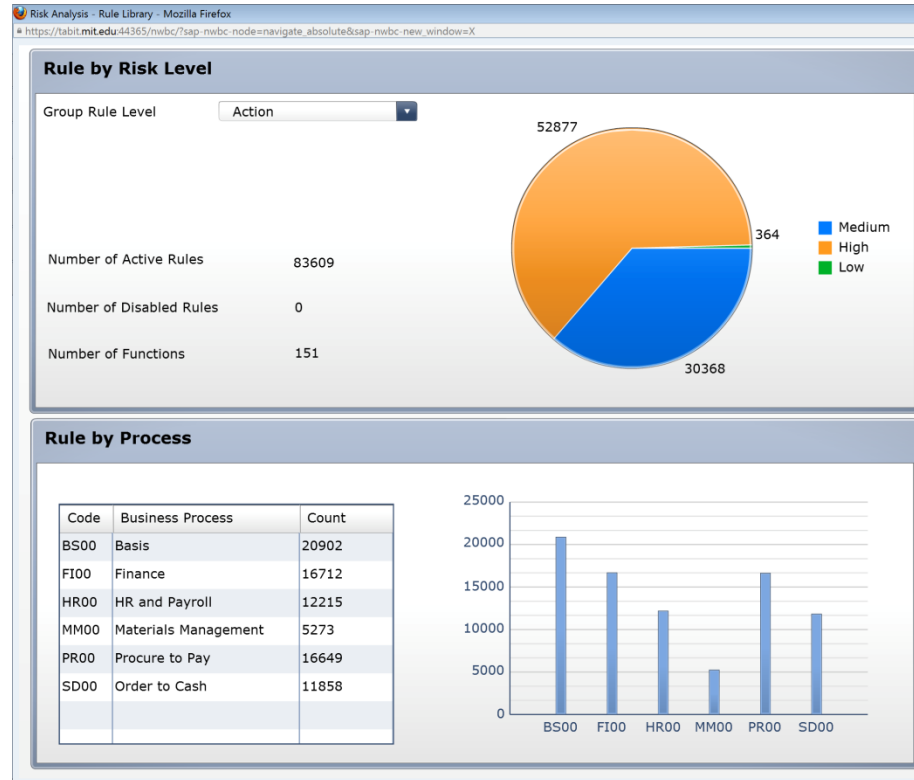
SPECIFIC SCENARIOS


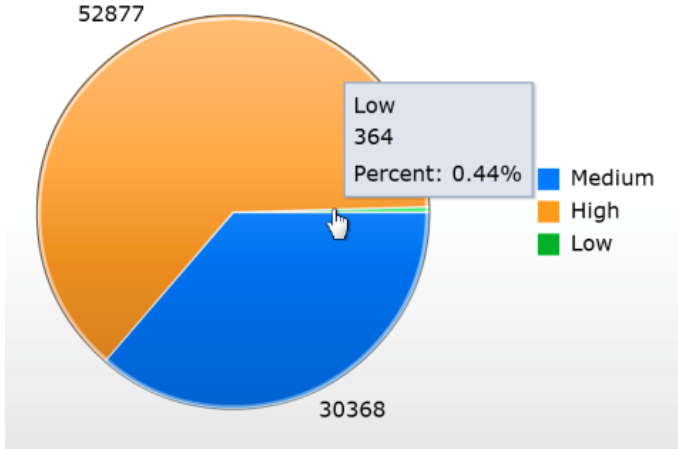
- Step 5A: Analyze report data by Risk Level. (Pie Chart)
- Step 5B: Analyze Access Rules by Business Process. (Table)
- Step 5C: Analyze report data by Business Process. (Bar Graph)

Step	Description	Screenshot
1	Navigate to the 'Reports and Analytics' tab.	 <p>Reports and Analytics</p>
2	Click on the 'Access Rule Library' report located in the 'Access Dashboards' section.	 <p>Access Dashboards</p> <p>Explore dashboards for access risk analysis, business role management and user access management</p> <p>Quick Links</p> <ul style="list-style-type: none"> Access Rule Library Mitigating Control Library Risk Violations User Analysis Role Analysis Violations Comparisons Alerts Role Library Access Requests Access Provisioning Risk Violation in Access Request Service Level for Access Request

3

The report will show information on rules that are defined within all rule sets within the GRC environment.



4	<p>The report data can be filtered to provide information pertaining to rules that are specific to Actions and Permissions. The report can also be filtered to provide information on Critical Actions, Critical Permissions, and Access Risks, including how many of each exist. In this case, 'Actions' is selected.</p>													
5A-1	<p>Analyze report data by risk level.</p> <p>Scroll over the different pieces of the pie chart to see information about unmitigated violations at each risk level.</p> <p>Click on the 'Low' risk level piece of the pie chart for more information about rules that pertain to Low Level Risks.</p>	 <table border="1"> <thead> <tr> <th>Risk Level</th> <th>Count</th> <th>Percent</th> </tr> </thead> <tbody> <tr> <td>High</td> <td>52877</td> <td></td> </tr> <tr> <td>Medium</td> <td>30368</td> <td></td> </tr> <tr> <td>Low</td> <td>364</td> <td>0.44%</td> </tr> </tbody> </table>	Risk Level	Count	Percent	High	52877		Medium	30368		Low	364	0.44%
Risk Level	Count	Percent												
High	52877													
Medium	30368													
Low	364	0.44%												

5A-2

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Access Risk ID: The 4-digit ID representing each Low Risk (as defined in the standard rule set) for which violations exist

Description: Business description of the Access Risk

Business Process: The 4-digit ID representing the Business Process to which the Access Risk has been mapped in the standard rule set

Business Process Description: The business description for the Business Process to which the Access Risk has been mapped in the standard rule set

Risk Level: The risk level defined for each Access Risk in the standard rule set

Active: Whether the rule is active

Rule Count: The number of rules for each Access Risk that exist

Rule Library Risk Management Report - Mozilla Firefox
https://tabit.mit.edu:44365/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Access Risks with Risk Level Low

View: [Standard View] | Display As: Table | Print Version | Export | Filter Settings

Access Risk ID	Description	Business Process	Business Process Description	Risk Level	Active	Rule Count
F009	Allocate costs to unauthorized cost centers	FI00	Finance	Low	<input checked="" type="checkbox"/>	3
M003	Inc production to reduce cost var due to productivity loss	MM00	Materials Management	Low	<input checked="" type="checkbox"/>	91
M002	Production Order Processing & Confirmation	MM00	Materials Management	Low	<input checked="" type="checkbox"/>	56
F010	Settle expenses from an unauthorized order	FI00	Finance	Low	<input checked="" type="checkbox"/>	20
M004	Move stock to GR to meet delivery schedule	MM00	Materials Management	Low	<input checked="" type="checkbox"/>	78
F011	Alter activity type used for cost allocation purposes	FI00	Finance	Low	<input checked="" type="checkbox"/>	12
M001	Increase production to reduce cost variances	MM00	Materials Management	Low	<input checked="" type="checkbox"/>	104

5A-3

Click on the 'Rule Count' link for each Access Risk to view the actual rule definitions. In this case, clicking on '3' for Access Risk 'F009' shows the details of the 3 rules that make up that Risk.

Rule Library Risk Management Report - Mozilla Firefox
https://tabit.mit.edu:44365/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Access Risks with Risk Level Low

View: [Standard View] Display As: Table Print Version Export Filter Settings

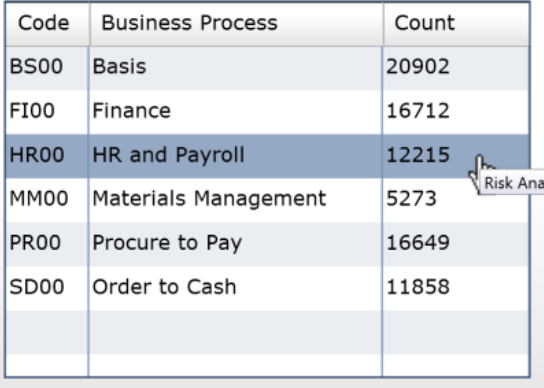
Access Risk ID	Description	Business Process	Business Process Description	Risk Level	Active	Rule Count
F009	Allocate costs to unauthorized cost centers	FI00	Finance	Low	<input checked="" type="checkbox"/>	3
M003	Inc production to reduce cost var due to productivity loss	MM00	Materials Management	Low	<input checked="" type="checkbox"/>	56
M002	Production Order Processing & Confirmation	MM00	Materials Management	Low	<input checked="" type="checkbox"/>	56
F010	Settle expenses from an unauthorized order	FI00	Finance	Low	<input checked="" type="checkbox"/>	20
M004	Move stock to GR to meet delivery schedule	MM00	Materials Management	Low	<input checked="" type="checkbox"/>	78
F011	Alter activity type used for cost allocation purposes	FI00	Finance	Low	<input checked="" type="checkbox"/>	12
M001	Increase production to reduce cost variances	MM00	Materials Management	Low	<input checked="" type="checkbox"/>	104

Rule Details

View: [Standard View] Display As: Table Print Version Export Filter Settings

Access Risk ID	Rule ID	Function ID	Target Connector	Action	Active
F009	0001	CC01	SAP_NHR_LG	FCOEX	<input checked="" type="checkbox"/>
F009	0001	CC04	SAP_NHR_LG	KSV5	<input checked="" type="checkbox"/>
F009	0002	CC01	SAP_NHR_LG	KSV1	<input checked="" type="checkbox"/>
F009	0002	CC04	SAP_NHR_LG	KSV5	<input checked="" type="checkbox"/>
F009	0003	CC01	SAP_NHR_LG	KSV2	<input checked="" type="checkbox"/>
F009	0003	CC04	SAP_NHR_LG	KSV5	<input checked="" type="checkbox"/>

Close

<p>5B-1</p>	<p>Analyze Access Rules by Business Process.</p> <p>Scroll over the different line items of the Business Process Table to see information about rules for Risks mapped to each Business Process.</p> <p>Click on the 'HR and Payroll' Risk row of the Table for more information about rules for HR/Payroll Risks.</p>	<table border="1"> <thead> <tr> <th>Code</th><th>Business Process</th><th>Count</th></tr> </thead> <tbody> <tr> <td>BS00</td><td>Basis</td><td>20902</td></tr> <tr> <td>FI00</td><td>Finance</td><td>16712</td></tr> <tr> <td>HR00</td><td>HR and Payroll</td><td>12215</td></tr> <tr> <td>MM00</td><td>Materials Management</td><td>5273</td></tr> <tr> <td>PR00</td><td>Procure to Pay</td><td>16649</td></tr> <tr> <td>SD00</td><td>Order to Cash</td><td>11858</td></tr> </tbody> </table> 	Code	Business Process	Count	BS00	Basis	20902	FI00	Finance	16712	HR00	HR and Payroll	12215	MM00	Materials Management	5273	PR00	Procure to Pay	16649	SD00	Order to Cash	11858
Code	Business Process	Count																					
BS00	Basis	20902																					
FI00	Finance	16712																					
HR00	HR and Payroll	12215																					
MM00	Materials Management	5273																					
PR00	Procure to Pay	16649																					
SD00	Order to Cash	11858																					

5B-2

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Access Risk: The 4-digit ID representing each Finance-Risk (as defined in the standard rule set) for which violations exist

Description: Business description of the Access Risk

Business Process: The 4-digit ID representing the Business Process to which the Access Risk has been mapped in the standard rule set

Business Process Description: The business description for the Business Process to which the Access Risk has been mapped in the standard rule set

Risk Level: The risk level defined for each Access Risk in the standard rule set

Active: Whether the rule is active

Rule Count: The number of rules for each Access Risk that exist

Rule Library Risk Management Report - Mozilla Firefox
https://tabit.mit.edu:44365/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Access Risks with Business Process HR00

View: [Standard View] Display As: Table Print Version Export Filter Settings

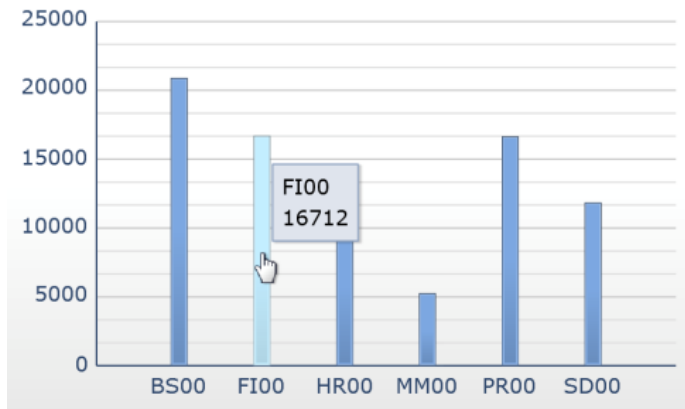
Access Risk ID	Description	Business Process	Business Process Description	Risk Level	Active	Rule Count
H004	Enter and approve time which could result in fraudulent payroll amounts.	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	42
H008	Changing payroll master data and modifying PD Structure	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	612
H009	Maintaining Time Data and performing payroll maintenance	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	14
H019	Perform time evaluations and perform payroll maintenance	HR00	HR and Payroll	Medium	<input checked="" type="checkbox"/>	2
H002	Change HR Benefits and process payroll without authorization	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	1,818
H015	Modify payroll master data and perform payroll maintenance	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	17
H020	Perform time evaluations and process payroll	HR00	HR and Payroll	Medium	<input checked="" type="checkbox"/>	404
H010	Change payroll and processing payroll without authorization	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	202
H017	Perform time evaluations and maintain time data	HR00	HR and Payroll	Medium	<input checked="" type="checkbox"/>	28
H018	Perform time evaluations and modify PD structure	HR00	HR and Payroll	Medium	<input checked="" type="checkbox"/>	72
H011	Change payroll config and maintain payroll settings	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	8
H005	Modify time data and process payroll without authority	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	2,828
H006	Change configuration of payroll then process payroll	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	1,616
H013	Entering false time data and maintaining PD Structure	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	504
H007	Change config of payroll then modify payroll master data	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	136
H016	Maintain schemas for payroll and maintain time data	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	70
H021	Perform time evaluations and work schedule evaluations	HR00	HR and Payroll	Medium	<input checked="" type="checkbox"/>	10
H003	Master data & remittance could result in fraudulent payments	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	48
H001	Modify payroll master data and then process payroll	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	3,434
H012	Enter false time data and modify payroll configuration	HR00	HR and Payroll	High	<input checked="" type="checkbox"/>	112

5C-1

Analyze report data by
Business Process.

Scroll over the different bars
of the Business Process Bar
Graph to see information
about Rules for Risks tied to
each Business Process.

Click on the 'FI00' Risk bar
of the Graph for more
information about Rules
related to Finance Risks.



5C-2

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Access Risk: The 4-digit ID representing each Finance-Risk (as defined in the standard rule set) for which violations exist

Description: Business description of the Access Risk

Business Process: The 4-digit ID representing the Business Process to which the Access Risk has been mapped in the standard rule set

Business Process Description: The business description for the Business Process to which the Access Risk has been mapped in the standard rule set

Risk Level: The risk level defined for each Access Risk in the standard rule set

Active: Whether the rule is active

Rule Count: The number of rules for each Access Risk that exist

Rule Library Risk Management Report - Mozilla Firefox
https://tabit.mit.edu:44365/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Access Risks with Business Process FI00

View: [Standard View] Display As: Table Print Version Export Filter Settings

Access Risk ID	Description	Business Process	Business Process Description	Risk Level	Active	Rule Count
F005	Maintain bank account and post a payment from it	FI00	Finance	High	<input checked="" type="checkbox"/>	319
F008	Hide cash deposited and cash collections differences	FI00	Finance	High	<input checked="" type="checkbox"/>	304
F009	Allocate costs to unauthorized cost centers	FI00	Finance	Low	<input checked="" type="checkbox"/>	3
F013	Maintain an asset and manipulate the receipt of the asset	FI00	Finance	High	<input checked="" type="checkbox"/>	85
F015	Use fictitious project/WBS to allocate overages	FI00	Finance	High	<input checked="" type="checkbox"/>	28
F017	Maintain bank account and divert incoming payments	FI00	Finance	High	<input checked="" type="checkbox"/>	209
F018	Open closed periods and inappropriately post entries	FI00	Finance	Medium	<input checked="" type="checkbox"/>	345
F019	Open closed periods and post payments after month end	FI00	Finance	Medium	<input checked="" type="checkbox"/>	145
F020	Open closed periods previously enter incoming payments	FI00	Finance	Medium	<input checked="" type="checkbox"/>	95
F030	Adjust the AR subsidiary balance using cash application and then conceal with journal entries.	FI00	Finance	Medium	<input checked="" type="checkbox"/>	1,311
F001	Maintain fictitious GL account & hide activity via postings	FI00	Finance	Medium	<input checked="" type="checkbox"/>	2,691
F002	Alter a cost center and process unauthorized cost transfers	FI00	Finance	Medium	<input checked="" type="checkbox"/>	63
F007	Create an invoice via ERS GR & hide via asset depreciation	FI00	Finance	High	<input checked="" type="checkbox"/>	180
F014	Post overhead expenses and settle project without approvals	FI00	Finance	High	<input checked="" type="checkbox"/>	16
F022	Maintain fictitious GL account & hide activity via currency or tax postings	FI00	Finance	Medium	<input checked="" type="checkbox"/>	780
F026	Open closed periods and post manual checks after month end	FI00	Finance	Medium	<input checked="" type="checkbox"/>	85
F031	Adjust the AR subsidiary balance using billing documents and then conceal with journal entries.	FI00	Finance	Medium	<input checked="" type="checkbox"/>	621
F004	Manipulate cc reports to hide inappropriate journal entries	FI00	Finance	Medium	<input checked="" type="checkbox"/>	345
F021	Open closed period & receive or issue goods after month end	FI00	Finance	Medium	<input checked="" type="checkbox"/>	70
F029	Adjust the AR subsidiary balance using AR payments and then conceal with journal entries	FI00	Finance	Medium	<input checked="" type="checkbox"/>	2,277

Job Aid 05 SUIM Roles by Role Name**USE**

This report can be used to understand the mapping between single and composite roles. The report displays which single roles are assigned to a composite role.

INFORMATION

Report shows:

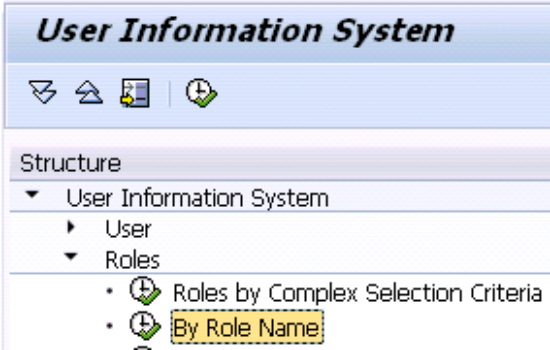
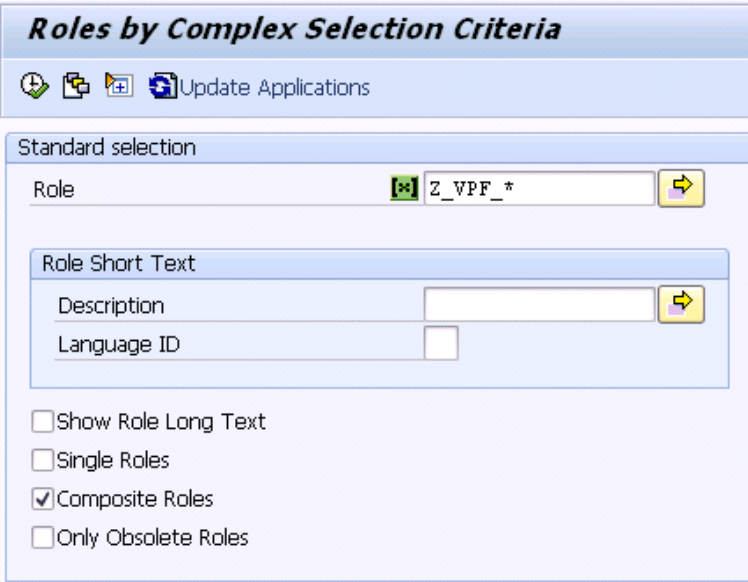
- List of transaction codes included in the roles
- Other composite roles which have a selected single role
- Users assigned to the roles

RELATED PROCESSES

- Process 1: New or Amended Roles

SPECIFIC SCENARIOS

- N/A

Step	Description	Screenshot
1	<p>In SAP R/3 EEC– use transaction code SUIM.</p> <p>Then click on the ‘Roles’ node and double click on the option for “By Role Name”</p> <p>Or use Transaction Code</p> <ul style="list-style-type: none"> S_BCE_68001418 	
2	<p>Select the Composite Role or Roles to be analyzed</p> <p>– e.g. Z_VPF*</p> <p>Also, check the “Composite Roles” selection only, so that single roles are not listed at this point.</p>	

3







The report will show a list of Composite Roles matching the selection criteria. It shows :

- Role id
- Role name

From this report, you can drill down to get the following information :

- Administrative Details
- Transaction Assignments
- Contained Single roles
- Users Assigned the composite role

Roles by Complex Selection Criteria
























Transaction Assignments

Number of Selected Roles: 93





System SF2 **Client** 030 **Checked by** SJCHERNY 05/16/2013 13:27:02

Selection Criteria:
 Role I CP Z_VPF_*
 Composite Roles X


Role	Type	Role name
Z_VPF_C_ADMIN_APPROVER		Composite role for VPF Admin Approver
Z_VPF_C_ADMIN_COMMON		Composite role for VPF admin
Z_VPF_C_ADMIN_COMMON_ORIG		Composite role for VPF admin
Z_VPF_C_ADMIN_COMMON_ROLES		Common roles for VPF Admin
Z_VPF_C_ADMIN_HR_PAY		VPF Admin HR Pay for FireFighter
Z_VPF_C_ADMIN_MGR_APPROVER		Composite role for VPF Admin Approver
Z_VPF_C_AR_ACCOUNT_MAINTENANCE		VPF AR Account Maintenance Composite Role
Z_VPF_C_AR_DOCUMENT_REVERSE		VPF AR Document Reverse Composite Role
Z_VPF_C_AR_FINANCIAL		VPF AR Financial
Z_VPF_C_AR_GENERAL		VPF AR General Composite Role
Z_VPF_C_AR_HR_DATA		VPF AR HR Data Composite Role
Z_VPF_C_AR_INVOICE_PROCESS		VPF AR Invoice Process
Z_VPF_C_AR_MANAGER		VPF AR Manager Role
Z_VPF_C_AR_MASTER_DATA_MAINTEN		VPF AR Master Data Maintenance Role

- 3a ADMINISTRATIVE DETAILS
- Double click on a Composite role or
- Click on a Composite Role to highlight it, then :
- Menu : GoTo → Display details
- or Icon 
- To exit back to the list, click on
-  Back (F3).
- Click on Roles tab to see a list of roles – but this the long way – see 3.c instead.






Display Roles

  Other role  

Role

Role 










Description

 Description  Roles  Menu  User  Personalization

Administration Information

	Created	Changed
User	RGMEYER	GEORGE P
Date	02/12/2013	04/22/2013
Time	07:01:12	16:19:07

Long Text

2013/01/04 RGMEYER Set up per SoD Role Design Specs

Change Log (Newest to Oldest):

=====

2013/mm/dd (userid) RT xxxxxxxx

3b

TRANSACTIONS

For the Transaction List , click on a Composite Role to highlight it, then :

Menu : Role → Transaction Assignments
or Icon

Transaction Assignments

There is no more drill down from here.

To exit the list, click on





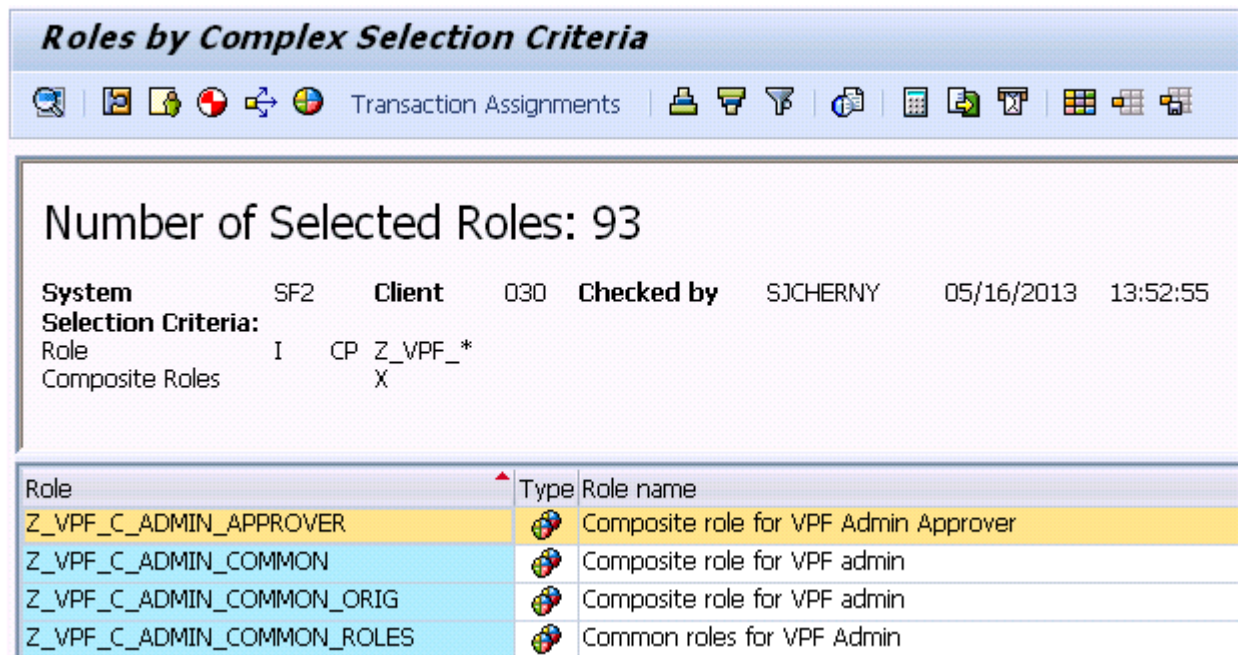













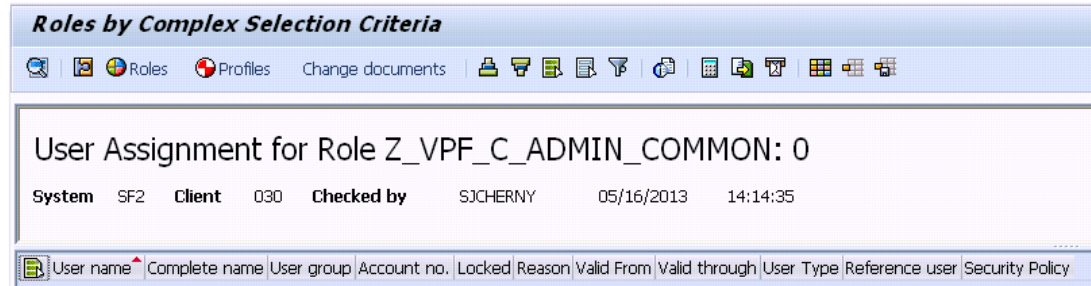
Back (F3).

Roles by Complex Selection Criteria



Transactions in Menu of Z_VPF_C_ADMIN_APPROVER



Transaction Code	Language	Transaction Text
CJ03		Display Work Breakdown Structure
CJ31		Display Project Original Budget
FB03		Display Document
FBV2		Change Parked Document
FBV3		Display Parked Document
FD03		Display Customer (Accounting)
FD10		Customer Account Balance
FD10N		Customer Balance Display
FM2M		Index of Funds Centers
FM3M		Index of Commitment Items
FM5M		Index of Funds
FS03		Display Master Record

3c	<p>ROLES CONTAINED</p> <p>For the quick Role List , click on a Composite Role to highlight it, then :</p> <p>Menu : Role → Contained Single Roles or Click on Icon </p> <p>To drilldown further on the single role – see Step 4 for details.</p> <p>To exit the list, click on  Back (F3).</p>	 <p>Roles by Complex Selection Criteria</p> <p>Transaction Assignments</p> <p>Number of Selected Roles: 93</p> <p>System SF2 Client 030 Checked by SJCHERNY 05/16/2013 13:52:55</p> <p>Selection Criteria: Role I CP Z_VPF_* Composite Roles X</p> <table><tr><th>Role</th><th>Type</th><th>Role name</th></tr><tr><td>Z_VPF_C_ADMIN_APPROVER</td><td></td><td>Composite role for VPF Admin Approver</td></tr><tr><td>Z_VPF_C_ADMIN_COMMON</td><td></td><td>Composite role for VPF admin</td></tr><tr><td>Z_VPF_C_ADMIN_COMMON_ORIG</td><td></td><td>Composite role for VPF admin</td></tr><tr><td>Z_VPF_C_ADMIN_COMMON_ROLES</td><td></td><td>Common roles for VPF Admin</td></tr></table>	Role	Type	Role name	Z_VPF_C_ADMIN_APPROVER		Composite role for VPF Admin Approver	Z_VPF_C_ADMIN_COMMON		Composite role for VPF admin	Z_VPF_C_ADMIN_COMMON_ORIG		Composite role for VPF admin	Z_VPF_C_ADMIN_COMMON_ROLES		Common roles for VPF Admin
Role	Type	Role name															
Z_VPF_C_ADMIN_APPROVER		Composite role for VPF Admin Approver															
Z_VPF_C_ADMIN_COMMON		Composite role for VPF admin															
Z_VPF_C_ADMIN_COMMON_ORIG		Composite role for VPF admin															
Z_VPF_C_ADMIN_COMMON_ROLES		Common roles for VPF Admin															
3d	<p>USERS ASSIGNED</p> <p>Menu : Role → User Assignment or Click on Icon </p>	 <p>Roles by Complex Selection Criteria</p> <p>Roles Profiles Change documents</p> <p>User Assignment for Role Z_VPF_C_ADMIN_COMMON: 0</p> <p>System SF2 Client 030 Checked by SJCHERNY 05/16/2013 14:14:35</p> <table><tr><th>User name</th><th>Complete name</th><th>User group</th><th>Account no.</th><th>Locked</th><th>Reason</th><th>Valid From</th><th>Valid through</th><th>User Type</th><th>Reference user</th><th>Security Policy</th></tr></table>	User name	Complete name	User group	Account no.	Locked	Reason	Valid From	Valid through	User Type	Reference user	Security Policy				
User name	Complete name	User group	Account no.	Locked	Reason	Valid From	Valid through	User Type	Reference user	Security Policy							





4



From the list of Single Roles you can click on a role to highlight it and use the icons or menu to :







- Display (Administrative) Details
- See transactions for the single role.
- Find which other Composite Roles include this single role

- 4a
- DATE LAST CHANGED
- Click on a role to highlight it then
- Click on Icon  or use Menu : GoTo → Display (Administrative) Details
- Or double click on the role.
- To exit, click on  Back (F3).

Display Roles

  Other role |  | 










Role	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS 	
Description	CA Common to ALL MIT SAP Bus. Users	RolesDB: N/A
Target System		 No destination

 Description
  Menu
  Workflow
  Authorizations
  User
 MiniApps
  Pe

Administration Information		
	Created	Changed
User	GEORGE	RGMEYER
Date	09/06/2012	05/13/2013
Time	22:02:36	18:41:13

Transaction Inheritance	
Derive from Role	

Long Text

2012/08/21 georgep Set up to contain functions that previously were assigned via Z#AU:COMMON. Only the Cross-Application functions, and Business Area functions, that have been determined to be necessary for all SAP Business Users are in this role.


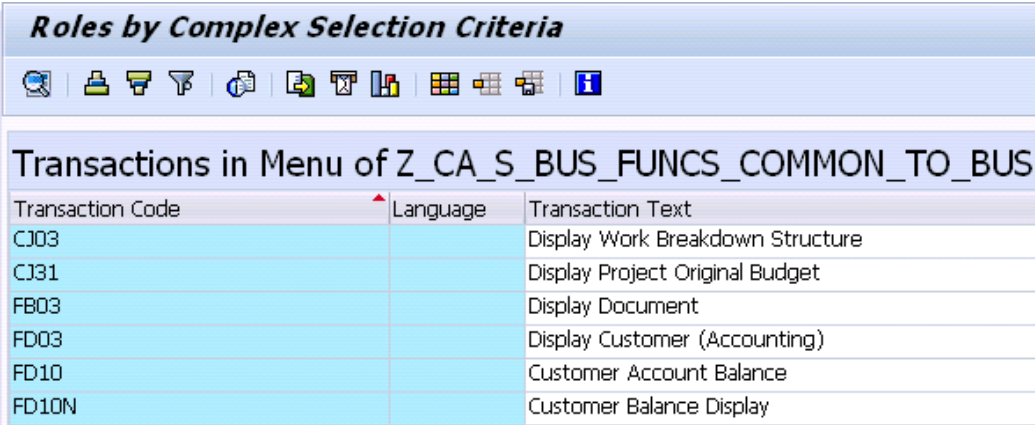
Change Log (Newest to Oldest):

=====

2013/02/06 georgep RT2171038 Added M_MATE_STA 03, *

2013/01/30 georgep RT2215720 Added S_WFAR_OBJ auths req'd by all Bus Users

2013/01/03 georgep added auths discovered by MIRELLAV and IMEYER during Testing in SH2, such as F_KNA1_KTP w/HEUS, 03

4b	<p>TRANSACTION ASSIGNMENT</p> <p>Click on a role to highlight it then</p> <p>Click on Icon</p> <p>Transaction Assignments</p> <p>or use Menu : Role → Transaction Assignments</p> <p>To exit, click on</p> <p> Back (F3).</p>	 <p>Roles by Complex Selection Criteria</p> <p>Transactions in Menu of Z_CA_S_BUS_FUNCS_COMMON_TO_BUS</p> <table border="1"> <thead> <tr> <th>Transaction Code</th> <th>Language</th> <th>Transaction Text</th> </tr> </thead> <tbody> <tr> <td>CJ03</td> <td></td> <td>Display Work Breakdown Structure</td> </tr> <tr> <td>CJ31</td> <td></td> <td>Display Project Original Budget</td> </tr> <tr> <td>FB03</td> <td></td> <td>Display Document</td> </tr> <tr> <td>FD03</td> <td></td> <td>Display Customer (Accounting)</td> </tr> <tr> <td>FD10</td> <td></td> <td>Customer Account Balance</td> </tr> <tr> <td>FD10N</td> <td></td> <td>Customer Balance Display</td> </tr> </tbody> </table>	Transaction Code	Language	Transaction Text	CJ03		Display Work Breakdown Structure	CJ31		Display Project Original Budget	FB03		Display Document	FD03		Display Customer (Accounting)	FD10		Customer Account Balance	FD10N		Customer Balance Display
Transaction Code	Language	Transaction Text																					
CJ03		Display Work Breakdown Structure																					
CJ31		Display Project Original Budget																					
FB03		Display Document																					
FD03		Display Customer (Accounting)																					
FD10		Customer Account Balance																					
FD10N		Customer Balance Display																					

4c

WHERE USED IN COMP
ROLES

Click on a role to highlight it
then

Click on Icon



To exit, click on



Back (F3).

Roles by Complex Selection Criteria

Transaction Assignments

Number of Selected Roles: 67

System SF2 Client 030 Checked by SJCHERNY 05/16/2013 14:07:11

Role	Type	Role name	RolesDB: ?
Z_AP_C_ADMINISTRATOR		AP Roles of AP Administrator	RolesDB: ?
Z_AP_C_MANAGER		AP Roles of AP Manager	RolesDB: ?
Z_AP_C_MASTER_DATA		AP Roles of AP Master Data	RolesDB: ?
Z_AP_C_OPER_LVL_1		AP Roles of AP Operations 1	RolesDB: ?
Z_AP_C_OPER_LVL_2		AP Roles of AP Operations 2	RolesDB: ?
Z_CA_C_VPF_IST_BUSNES_ANLYST		VPF & IST Business Analysts Functions	RolesDB: ?
Z_SUP_C_R3ADMIN		IST Support Role for the R3 Admin Basis Team	
Z_VPF_C_ADMIN_APPROVER		Composite role for VPF Admin Approver	
Z_VPF_C_ADMIN_COMMON		Composite role for VPF admin	
Z_VPF_C_ADMIN_COMMON_ORIG		Composite role for VPF admin	
Z_VPF_C_ADMIN_COMMON_ROLES		Common roles for VPF Admin	
Z_VPF_C_ADMIN_HR_PAY		VPF Admin HR Pay for FireFighter	
Z_VPF_C_ADMIN_MGR_APPROVER		Composite role for VPF Admin Approver	
Z_VPF_C_AR_ACCOUNT_MAINTENANCE		VPF AR Account Maintenance Composite Role	

Job Aid 06 User to Role Relationship**USE**

This report can be used to determine all users assigned to a role.

INFORMATION



List of all users with access to a particular role or set of roles.

RELATED PROCESSES

- Process 1: New or Amended Roles

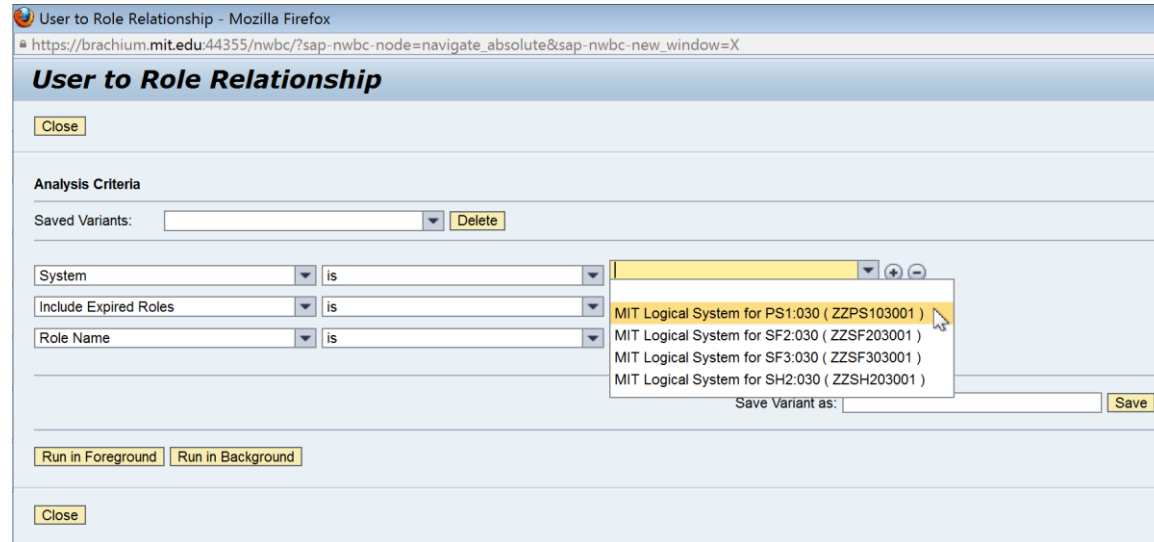
SPECIFIC SCENARIOS

- Step 5A: Analyze for a single role.
- Step 5B: Analyze for multiple roles by specific role names.
- Step 5C: Analyze for multiple roles by using a wild card (*) in the role name.

Step	Description	Screenshot
1	Navigate to the 'Reports and Analytics' tab.	 <p>Reports and Analytics</p>
2	Click on the 'User to Role Relationship' report located in the 'Role Management Reports' section.	 <p>Role Management Reports</p> <p>View details related to management of roles</p> <p>Quick Links</p> <ul style="list-style-type: none"> List Action in Roles Compare Action in Menu and Authorization Compare User Roles <u>User to Role Relationship</u> Role Relationship with User / User Group PFCG Change History Master to Derived Role Relationship Single to Composite Role Relationship Role by date of generation Risk Terminator Log Report

3

Select the system for which information is required. In this case, the selection is PS1.



User to Role Relationship - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Close

Analysis Criteria

Saved Variants: Delete

System is

Include Expired Roles is

Role Name is

MIT Logical System for PS1:030 (ZZPS103001)

MIT Logical System for SF2:030 (ZZSF203001)

MIT Logical System for SF3:030 (ZZSF303001)

MIT Logical System for SH2:030 (ZZSH203001)

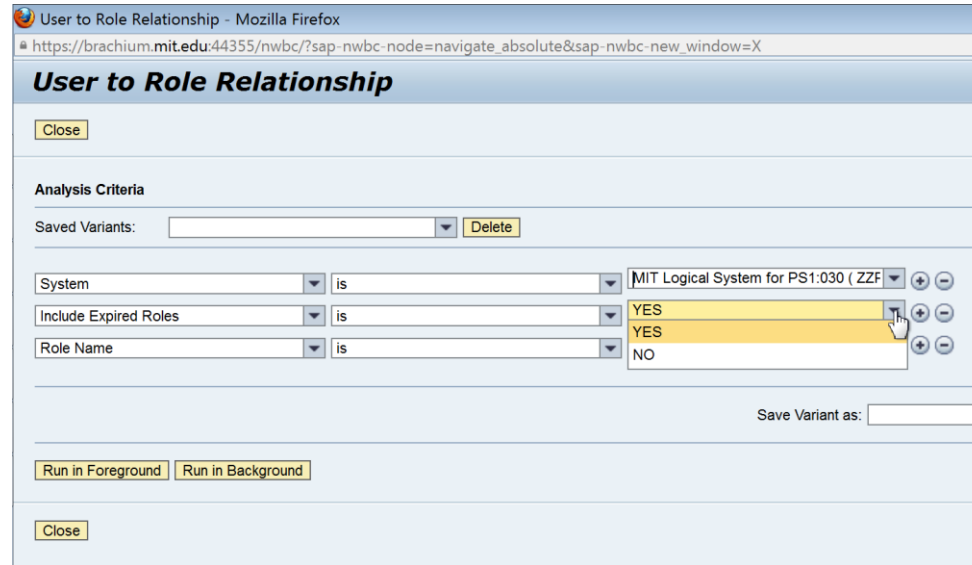
Save Variant as: Save

Run in Foreground Run in Background

Close

4

Select whether to include information on role assignments which have expired for users (i.e. that have assignment end-dates prior to the current date). In this case, the selection is 'Yes'.



User to Role Relationship - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

[Close](#)

Analysis Criteria

Saved Variants: [Delete](#)

System	is	MIT Logical System for PS1:030 (ZZF)	+ -
Include Expired Roles	is	YES	+ -
Role Name	is	NO	+ -

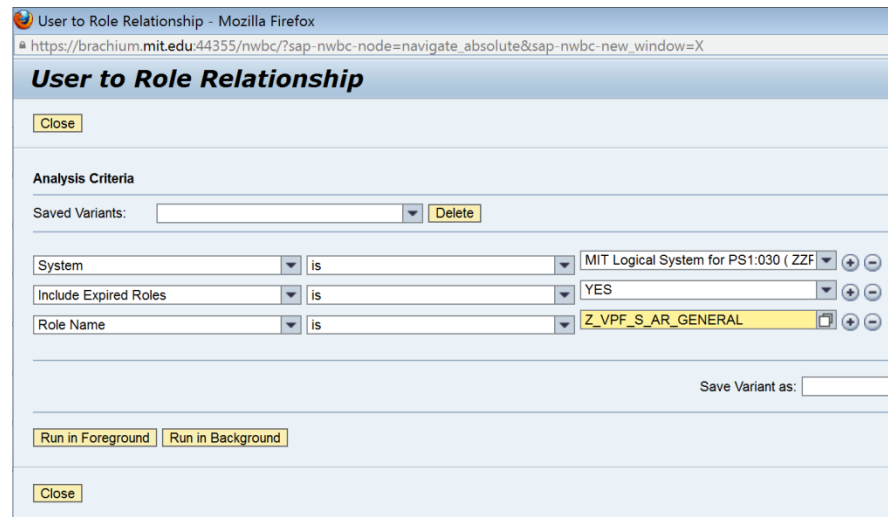
Save Variant as:

[Run in Foreground](#) [Run in Background](#)

[Close](#)

5A-1

Analyze for a single role. Add the role name. In this case, 'Z_VPF_S_AR_GENERAL' was typed in. The search option can also be used to search for a role. Please refer to the 'Search for Input Values' reference document (R3) for further information.



User to Role Relationship - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

[Close](#)

Analysis Criteria

Saved Variants: [Delete](#)

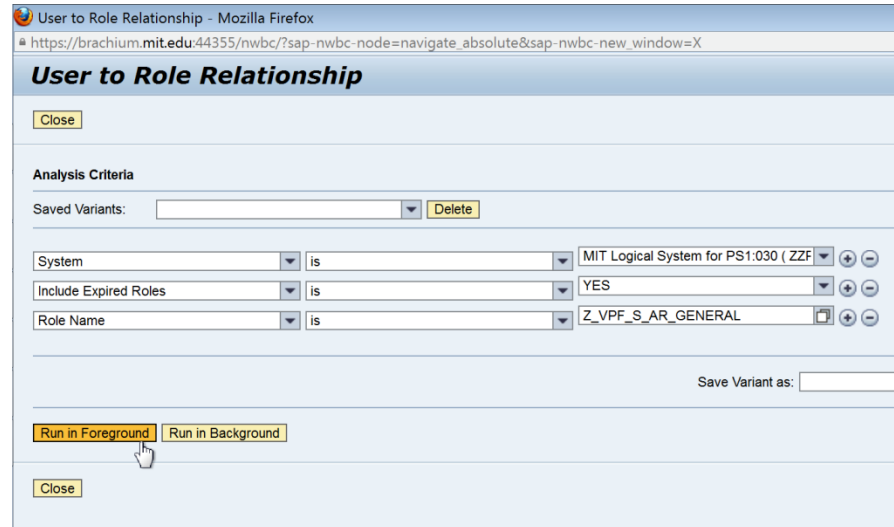
System	is	MIT Logical System for PS1:030 (ZZF)	+ -
Include Expired Roles	is	YES	+ -
Role Name	is	Z_VPF_S_AR_GENERAL	+ -

Save Variant as:

[Run in Foreground](#) [Run in Background](#)

[Close](#)

5A-2 Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



User to Role Relationship - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Close

Analysis Criteria

Saved Variants: Delete

System is MIT Logical System for PS1.030 (ZZF)
Include Expired Roles is YES
Role Name is Z_VPF_S_AR_GENERAL

Save Variant as:

Run in Foreground Run in Background

Close

5A-3

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Role Name: SAP role name

Role Description: Business name for SAP role

Profile Name: Name of SAP profile associated with SAP role (technical information)

User: User ID of the user with access to the role

Full Name: User name of user with access to role

Valid From: Date on which assignment of the role to the user begins

Valid To: Date on which assignment of the role to the user ends

System: The system in which the role is assigned to the user

User to Role Relationship - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Analysis Criteria

Analysis Results

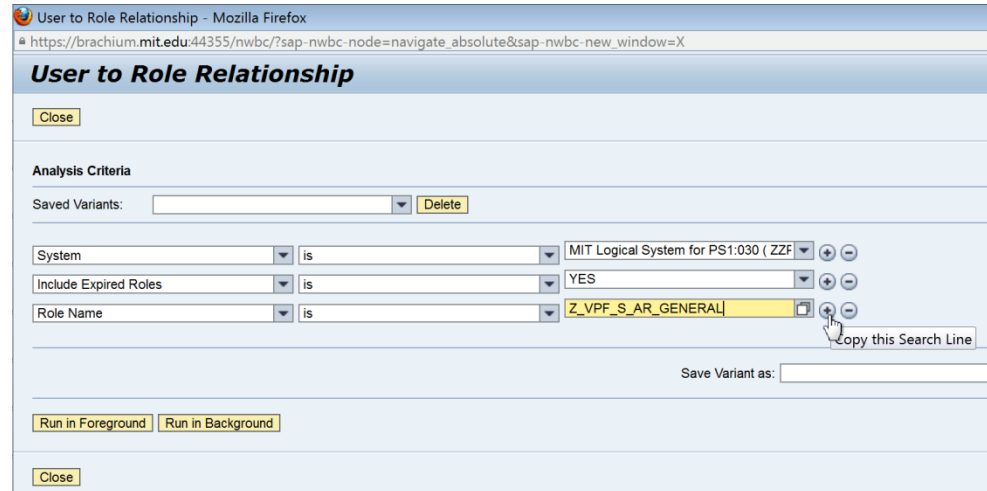
Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

Role Name	Role Description	Profile Name	User	Full Name	Valid From	Valid To	System
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001

5B-1 Analyze for multiple roles by specific role names. To do this, we can add the first role name. In this case, 'Z_VPF_S_AR_GENERAL' was typed in. The search option can also be used to search for a role. Please refer to the 'Search for Input Values' reference document (R3) for further information.

Next, add an additional Search Line. See the 'Add or Remove Search Lines to a Report' reference document (R2) for further information.



User to Role Relationship - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Close

Analysis Criteria

Saved Variants: Delete

System	is	MIT Logical System for PS1:030 (ZZF)	+ -
Include Expired Roles	is	YES	+ -
Role Name	is	Z_VPF_S_AR_GENERAL	+ -

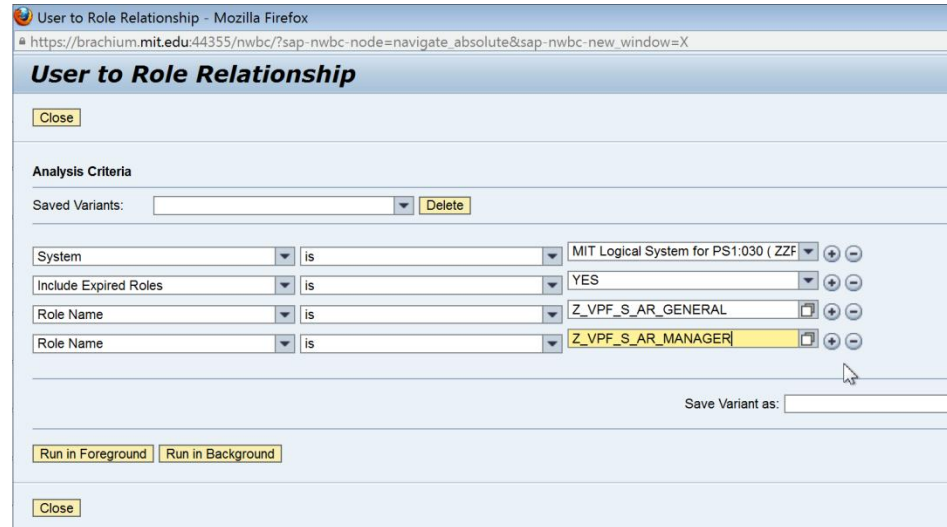
Copy this Search Line

Save Variant as:

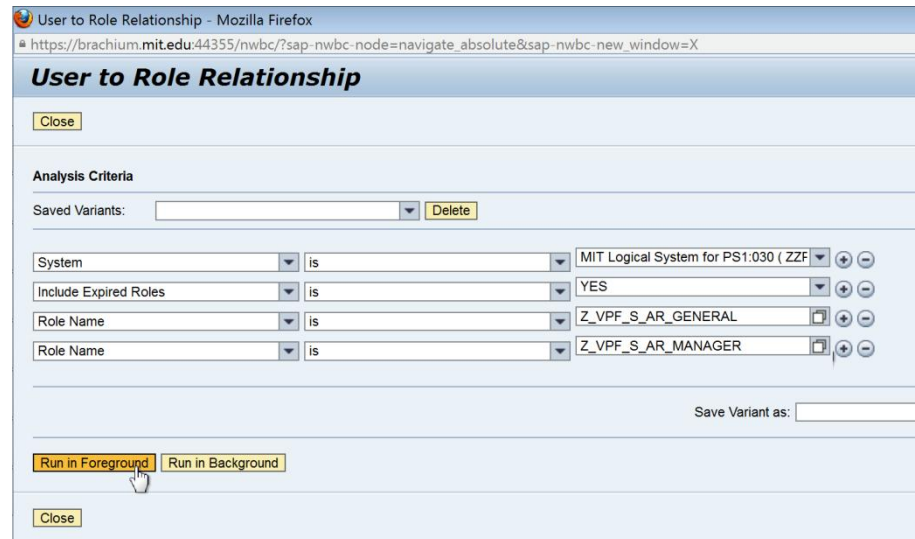
Run in Foreground Run in Background

Close

5B-2 Add the additional role name. In this case, 'Z_VPF_S_AR_MANAGER' was typed in. The search option can also be used to search for a role.



5B-3 Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



5B-4

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Role Name: SAP role name

Role Description: Business name for SAP role

Profile Name: Name of SAP profile associated with SAP role (technical information)

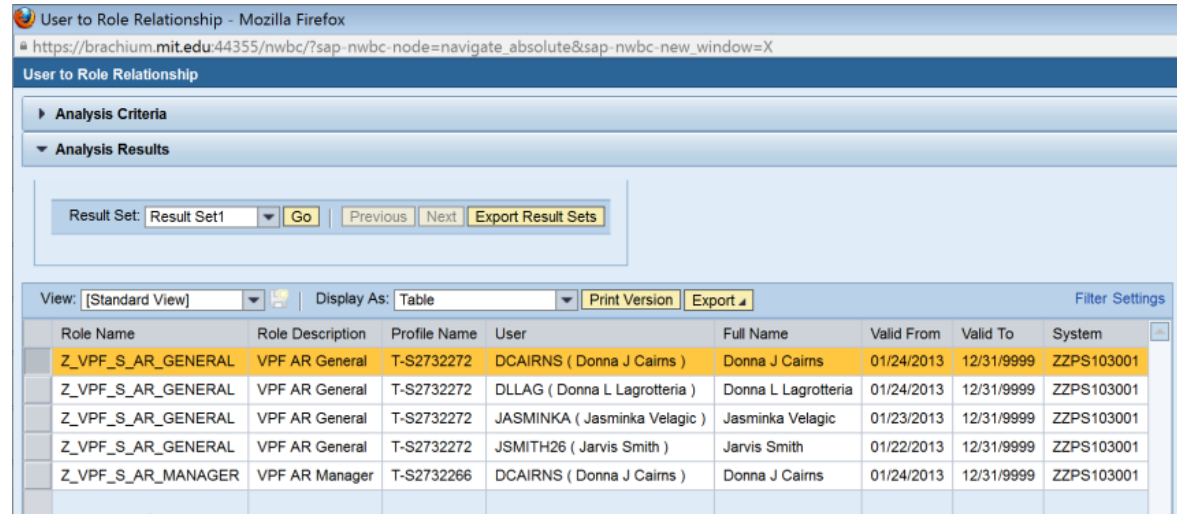
User: User ID of the user with access to the role

Full Name: User name of user with access to role

Valid From: Date on which assignment of the role to the user begins

Valid To: Date on which assignment of the role to the user ends

System: The system in which the role is assigned to the user

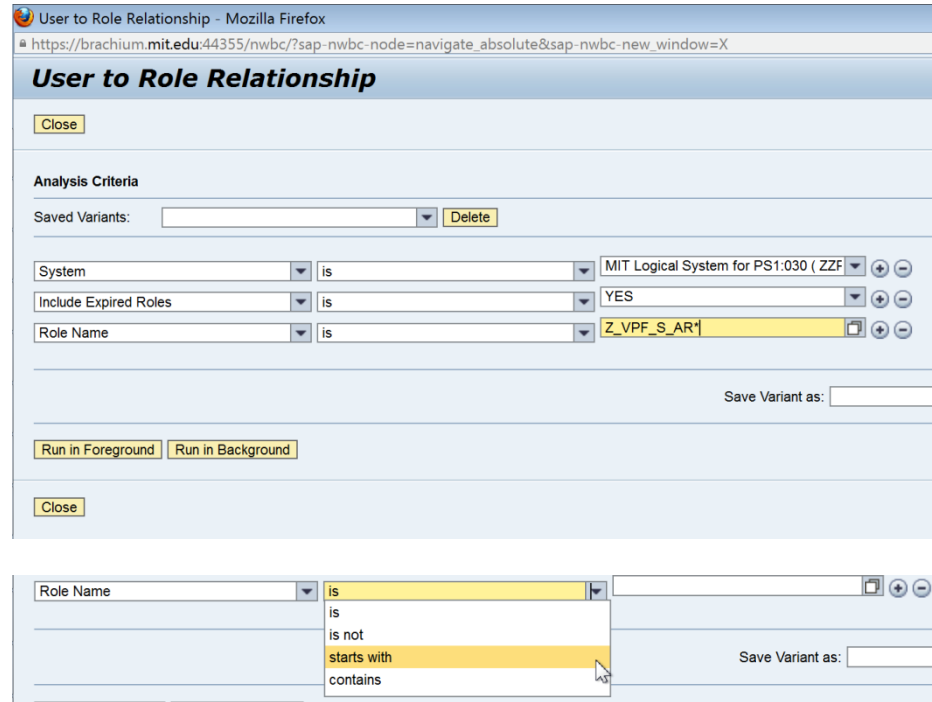


Role Name	Role Description	Profile Name	User	Full Name	Valid From	Valid To	System
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_MANAGER	VPF AR Manager	T-S2732266	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001

5C-1

Analyze for multiple roles by using a wild card (*) in the role name. In this case, 'Z_VPF_S_AR*' is the selection.

Alternatively, the operand for the 'Role Name' search criterion can be changed from 'is' to 'starts with'/'contains' and 'Z_VPF_S_AR' can be used as the selection.



User to Role Relationship - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Close

Analysis Criteria

Saved Variants: Delete

System is MIT Logical System for PS1:030 (ZZF)

Include Expired Roles is YES

Role Name is Z_VPF_S_AR*

Save Variant as:

Run in Foreground Run in Background

Close

Role Name is

is

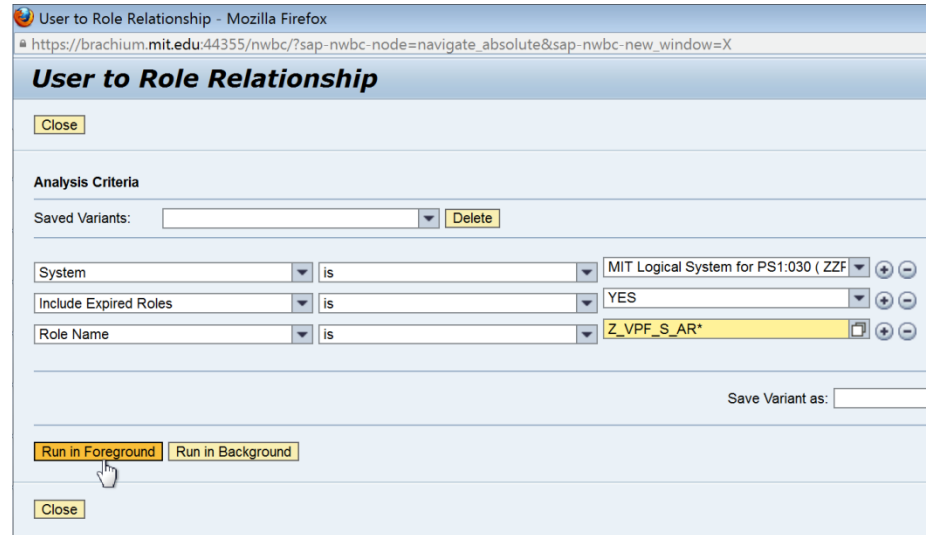
is not

starts with

contains

Save Variant as:

5C-2 Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



User to Role Relationship - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

[Close](#)

Analysis Criteria

Saved Variants: [Delete](#)

System is MIT Logical System for PS1:030 (ZZF

Include Expired Roles is YES

Role Name is Z_VPF_S_AR*

Save Variant as:

[Run in Foreground](#) [Run in Background](#)

[Close](#)

5C-3

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Role Name: SAP role name

Role Description: Business name for SAP role

Profile Name: Name of SAP profile associated with SAP role (technical information)

User: User ID of the user with access to the role

Full Name: User name of user with access to role

Valid From: Date on which assignment of the role to the user begins

Valid To: Date on which assignment of the role to the user ends

System: The system in which the role is assigned to the user

User to Role Relationship - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

Role Name	Role Description	Profile Name	User	Full Name	Valid From	Valid To	System
Z_VPF_S_AR_ACCOUNT_MAINTENANCE	VPF AR Account Maintenance	T-S2732271	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	CWHELAN (Cheryl A Whelan)	Cheryl A Whelan	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	PCROSBY (Patricia M Crosby)	Patricia M Crosby	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_CR_ZC10	VPF ZC10	T-S2732297	JSMITH26 (Jarvis Smith)	Jarvis Smith	05/10/2013	05/13/2013	ZZPS103001
Z_VPF_S_AR_CR_ZC10	VPF ZC10	T-S2732297	PCROSBY (Patricia M Crosby)	Patricia M Crosby	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	T-S2732328	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	T-S2732328	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001

5C-4

Sorting on role by clicking on the 'Role Name' column header will show the users grouped by role.

User to Role Relationship - Mozilla Firefox
https://brachium.mit.edu/44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

Role Name	Role Description	Profile Name	User	Full Name	Valid From	Valid To	System
Z_VPF_S_AR_ACCOUNT_MAINTENANCE	VPF AR Account Maintenance	T-S2732271	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	CWHELAN (Cheryl A Whelan)	Cheryl A Whelan	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	PCROSBY (Patricia M Crosby)	Patricia M Crosby	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_CR_ZC10	VPF ZC10	T-S2732297	JSMITH26 (Jarvis Smith)	Jarvis Smith	05/10/2013	05/13/2013	ZZPS103001
Z_VPF_S_AR_CR_ZC10	VPF ZC10	T-S2732297	PCROSBY (Patricia M Crosby)	Patricia M Crosby	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	T-S2732328	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	T-S2732328	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001

User to Role Relationship - Mozilla Firefox
https://brachium.mit.edu/44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

Role Name	Role Description	Profile Name	User	Full Name	Valid From	Valid To	System
Z_VPF_S_AR_ACCOUNT_MAINTENANCE	VPF AR Account Maintenance	T-S2732271	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	CWHELAN (Cheryl A Whelan)	Cheryl A Whelan	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	PCROSBY (Patricia M Crosby)	Patricia M Crosby	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_CR_ZC10	VPF ZC10	T-S2732297	JSMITH26 (Jarvis Smith)	Jarvis Smith	05/10/2013	05/13/2013	ZZPS103001
Z_VPF_S_AR_CR_ZC10	VPF ZC10	T-S2732297	PCROSBY (Patricia M Crosby)	Patricia M Crosby	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	T-S2732328	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	T-S2732328	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001

5C-5 Sorting on user by clicking on the 'User' column header will show the roles grouped by user.

User to Role Relationship - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

Role Name	Role Description	Profile Name	User	Full Name	Valid From	Valid To	System
Z_VPF_S_AR_ACCOUNT_MAINTENANCE	VPF AR Account Maintenance	T-S2732271	DCAIRN User Donna J Cairns	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	CWHELAN (Cheryl A Whelan)	Cheryl A Whelan	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	PCROSBY (Patricia M Crosby)	Patricia M Crosby	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_CR_ZC10	VPF ZC10	T-S2732297	JSMITH26 (Jarvis Smith)	Jarvis Smith	05/10/2013	05/13/2013	ZZPS103001
Z_VPF_S_AR_CR_ZC10	VPF ZC10	T-S2732297	PCROSBY (Patricia M Crosby)	Patricia M Crosby	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	T-S2732328	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	T-S2732328	JSMITH26 (Jarvis Smith)	Jarvis Smith	01/22/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001

User to Role Relationship - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

User to Role Relationship

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

Role Name	Role Description	Profile Name	User	Full Name	Valid From	Valid To	System
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	CWHELAN (Cheryl A Whelan)	Cheryl A Whelan	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_SOD_REPORTING	VPF SoD Reports: Accounts Receivable RolesDB: ?	T-S2732294		Cheryl A Whelan	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ACCOUNT_MAINTENANCE	VPF AR Account Maintenance	T-S2732271	DCAIRNS (Donna J Cairns)	Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296		Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270		Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272		Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_MANAGER	VPF AR Manager	T-S2732266		Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_MASTER_DATA_MAINT	VPF AR Master Data Maintenance	T-S2732267		Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_SOD_REPORTING	VPF SoD Reports: Accounts Receivable RolesDB: ?	T-S2732294		Donna J Cairns	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	DLLAG (Donna L Lagrotteria)	Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	T-S2732270		Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272		Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_MASTER_DATA_MAINT	VPF AR Master Data Maintenance	T-S2732267		Donna L Lagrotteria	01/24/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	T-S2732296	JASMINKA (Jasminka Velagic)	Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	T-S2732328		Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001
Z_VPF_S_AR_GENERAL	VPF AR General	T-S2732272		Jasminka Velagic	01/23/2013	12/31/9999	ZZPS103001

Job Aid 07 Role Relationship with User - User Group**USE**

This report can be used to determine what roles are assigned to a user.

INFORMATION



List of all roles assigned to a user or users in a user group.

RELATED PROCESSES

- Process 1: New or Amended Roles

SPECIFIC SCENARIOS

- Step 4A: Analyze for a single user group.
- Step 4B: Analyze by for a single user by user ID.
- Step 4C: Analyze by for multiple users by user ID.

Step	Description	Screenshot
1	Navigate to the 'Reports and Analytics' tab.	 <p>Reports and Analytics</p>
2	Click on the 'Role Relationship with User / User Group' report located in the 'Role Management Reports' section.	 <p>Role Management Reports</p> <p>View details related to management of roles</p> <p>Quick Links</p> <ul style="list-style-type: none"> List Action in Roles Compare Action in Menu and Authorization Compare User Roles User to Role Relationship <u>Role Relationship with User / User Group</u> PFCG Change History Master to Derived Role Relationship Single to Composite Role Relationship Role by date of generation Risk Terminator Log Report

3

Select the system for which information is required. In this case, the selection is PS1.

Role Relationship with User / User Group - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

Close

Analysis Criteria

Saved Variants: Delete

System is

User Type: ☒ User ID ☐ User Group

User ID is

MIT Logical System for PS1:030 (ZZPS1030001)
MIT Logical System for SF2:030 (ZZSF2030001)
MIT Logical System for SF3:030 (ZZSF3030001)
MIT Logical System for SH2:030 (ZZSH2030001)

Save Variant as:

Run in Foreground Run in Background

Close

4A-1

Analyze for a single user group. Click on the dial button next to 'User Group'.

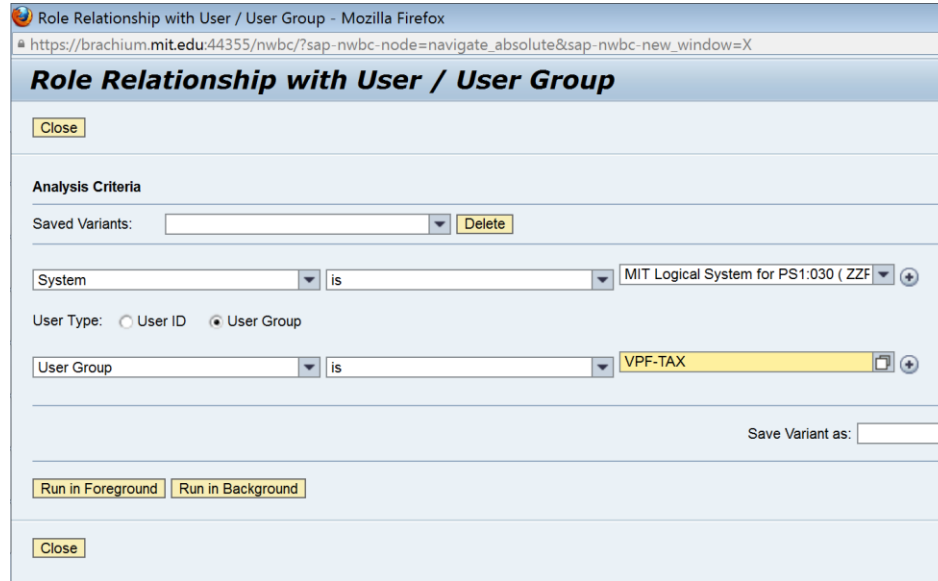
NOTE: The report can also be executed for multiple user groups by following steps similar to those outlined for multiple user IDs in steps 4C.



The screenshot shows a web browser window titled "Role Relationship with User / User Group - Mozilla Firefox". The address bar displays the URL: https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X. The page title is "Role Relationship with User / User Group".

At the top, there is a "Close" button. Below this is the "Analysis Criteria" section. It includes a "Saved Variants:" dropdown menu with a "Delete" button next to it. The main configuration area has two rows of dropdown menus. The first row is labeled "System" and "is", followed by a third dropdown menu and a "+" button. The second row is labeled "User Type:" with radio buttons for "User ID" and "User Group" (which is selected). Below this, there is a "User Group" dropdown menu, followed by an "is" dropdown menu, another dropdown menu, and a "+" button. At the bottom right of this section is a "Save Variant as:" text field. Below the configuration area are two buttons: "Run in Foreground" and "Run in Background". At the very bottom is another "Close" button.

4A-2 Add the user group name. In this case, 'VPF-TAX', the user group containing all users in VPF who are part of the Tax area, was typed in. The search option can also be used to search for user groups. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Role Relationship with User / User Group - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

[Close](#)

Analysis Criteria

Saved Variants: [Delete](#)

System is MIT Logical System for PS1:030 (ZZF) [+](#)

User Type: ☐ User ID ☒ User Group

User Group is VPF-TAX [+](#)

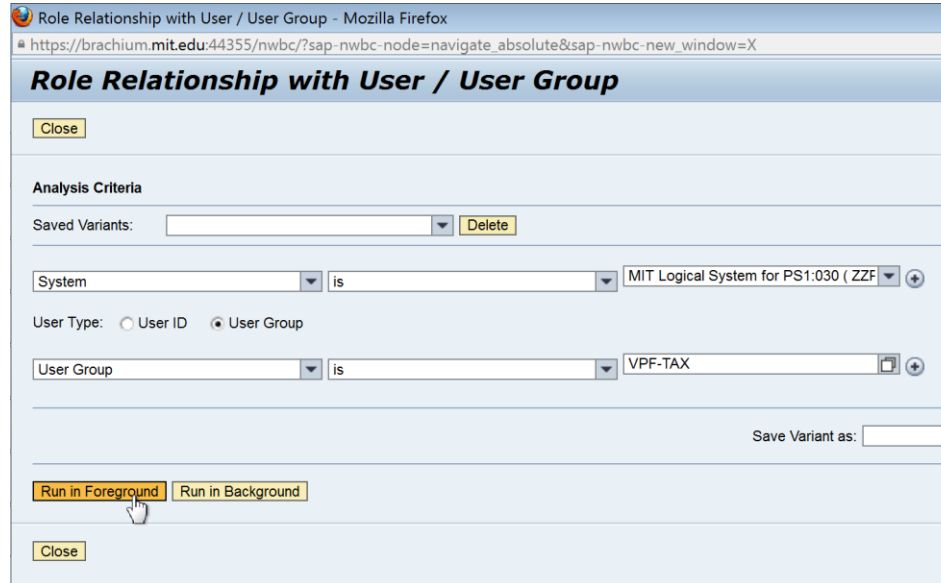
Save Variant as:

[Run in Foreground](#) [Run in Background](#)

[Close](#)

4A-3

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Role Relationship with User / User Group - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

[Close](#)

Analysis Criteria

Saved Variants: [Delete](#)

System is MIT Logical System for PS1:030 (ZZF) [+](#)

User Type: ☐ User ID ☒ User Group

User Group is VPF-TAX [+](#)

Save Variant as:

[Run in Foreground](#) [Run in Background](#)

[Close](#)

4A-4 Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

System: The system in which the role is assigned to the user

User: User ID of the user with access to the role

User Group Name: User group code

Role Name: SAP role name

Role Description: Business name for SAP role

Role Relationship with User / User Group - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/7sap-nwbc/node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

System	User	User Group Name	Role Name	Role Description
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	ZPRTL_C_LEARNER	Portal Grp: Access for LSO Learner + RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_CA_S_COMMON_CO_&_FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_FAC_S_ATTACH_EQUIP_DOCS	PR Attach External Docs. to Equip. Recs. RolesDB: ?
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_FAC_S_SEMO_ORDERS	FAC Semo Web Orders RolesDB: ?
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_HRLSO_S_CREATE_HR_ENTRY	Portal Grp: Access for LSO Create HR Ent RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_HRLSO_S_LEARNER	Portal Grp: Access for LSO Learner RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_BASIC_FUNCTIONS	MIT Employee Self-Service (HR Benefits Incl.)
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_BEN_DEPENDENTS_UPD	MIT Employee Self-Service (HR Benefits Incl.)
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_BEN_ENROLLMENT_DIS	MIT Employee Self-Service (HR Benefits Incl.)
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_DIRECT_DEPOSIT	MIT - ESS Access to Update Bank Details
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_DIR_ADDRESS_UPD	Person Directory Entry Lookup, Maintain Own Directory Entry
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_DIR_PERSDATA_UPD	Person Directory Entry Lookup, Maintain Own Directory Entry
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_TEM_USER_ACCESS	HR Acc. assigned to ALL SAP User IDs RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_TUITION_ASSISTANCE	MIT - Employee Self-Service Access: Tuition Assistance

4A-5

Sorting on role by clicking on the 'Role Name' column header will show the users grouped by role.

Role Relationship with User / User Group - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

System	User	User Group Name	Role Name	Role Description
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	ZPRTL_C_LEARNER	Portal Grp: Access for LSO Learner + RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_CA_S_COMMON_CO_8_FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_FAC_S_ATTACH_EQUIP_DOCS	PR Attach External Docs. to Equip. Recs. RolesDB: ?
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_FAC_S_SEMO_ORDERS	FAC Semo Web Orders RolesDB: ?
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_HRLSO_S_CREATE_HR_ENTRY	Portal Grp: Access for LSO Create HR Ent RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_HRLSO_S_LEARNER	Portal Grp: Access for LSO Learner RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_BASIC_FUNCTIONS	MIT Employee Self-Service (HR Benefits Incl.)
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_BEN_DEPENDENTS_UPD	MIT Employee Self-Service (HR Benefits Incl.)
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_BEN_ENROLLMENT_DIS	MIT Employee Self-Service (HR Benefits Incl.)
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_DIRECT_DEPOSIT	MIT - ESS Access to Update Bank Details
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_DIR_ADDRESS_UPD	Person Directory Entry Lookup, Maintain Own Directory Entry
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_DIR_PERSDATA_UPD	Person Directory Entry Lookup, Maintain Own Directory Entry
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_TEM_USER_ACCESS	HR Acc. assigned to ALL SAP User IDs RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_MIT_ESS_TUITION_ASSISTANCE	MIT - Employee Self-Service Access: Tuition Assistance

Role Relationship with User / User Group - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

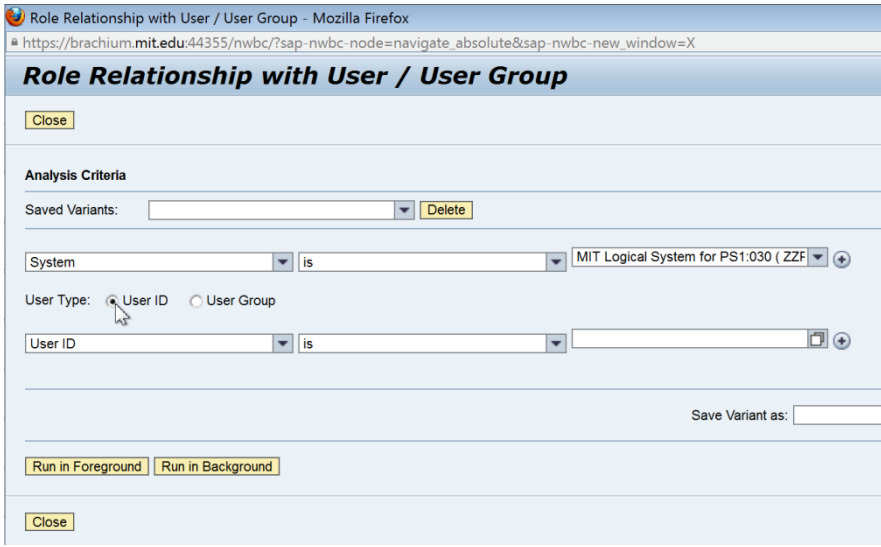
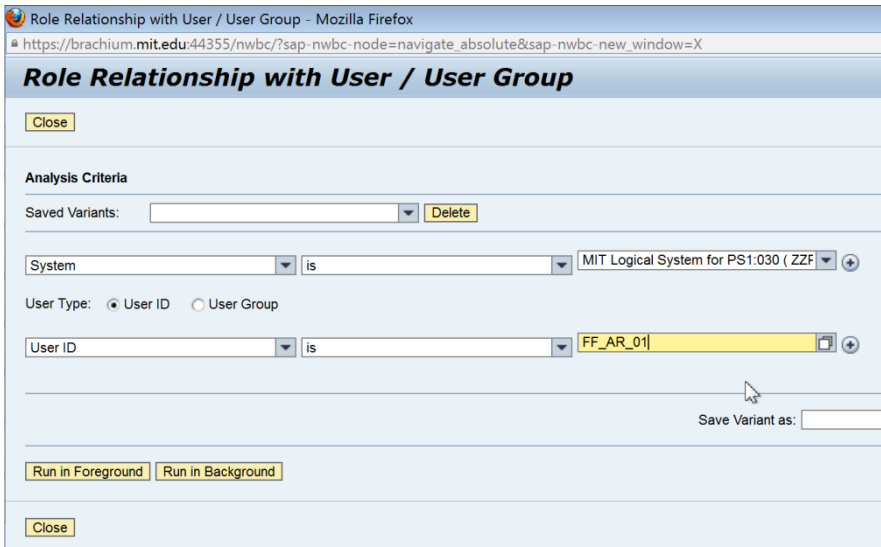
Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

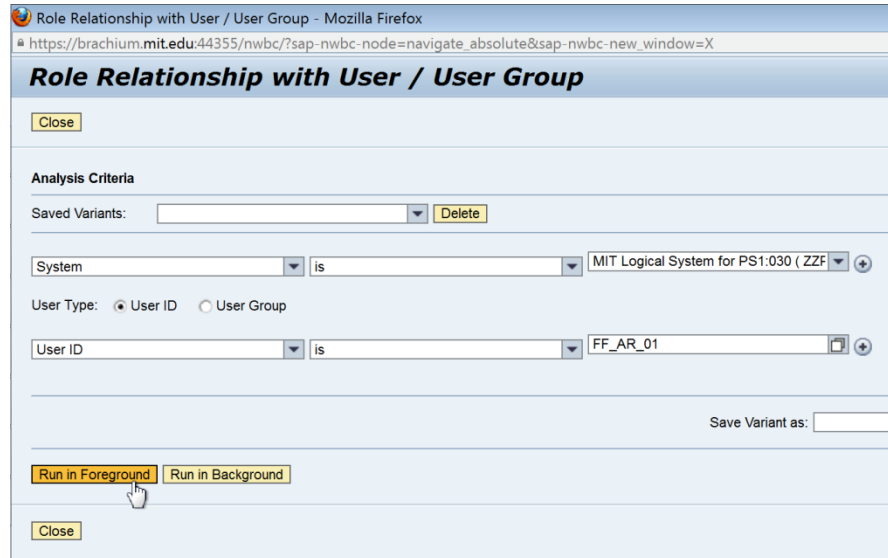
View: [Standard View] Display As: Table Print Version Export Filter Settings

System	User	User Group Name	Role Name	Role Description
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Rebecca Berger (RCBERGER)	VPF-TAX		CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Robert Soohoo (RSOOHOO)	VPF-TAX		CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Victoria Wu (VWU)	VPF-TAX		CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_CA_S_COMMON_CO_8_FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Rebecca Berger (RCBERGER)	VPF-TAX		CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Robert Soohoo (RSOOHOO)	VPF-TAX		CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Victoria Wu (VWU)	VPF-TAX		CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Rebecca Berger (RCBERGER)	VPF-TAX		CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Robert Soohoo (RSOOHOO)	VPF-TAX		CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Victoria Wu (VWU)	VPF-TAX		CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Long Tran (LCTRAN)	VPF-TAX	Z_FAC_S_ATTACH_EQUIP_DOCS	PR Attach External Docs. to Equip. Recs. RolesDB: ?
ZZPS103001	Rebecca Berger (RCBERGER)	VPF-TAX		PR Attach External Docs. to Equip. Recs. RolesDB: ?
ZZPS103001	Robert Soohoo (RSOOHOO)	VPF-TAX		PR Attach External Docs. to Equip. Recs. RolesDB: ?
ZZPS103001	Victoria Wu (VWU)	VPF-TAX		PR Attach External Docs. to Equip. Recs. RolesDB: ?

4B-1	Analyze by for a single user by user ID. Click on the dial button next to 'User ID'.	 <p>Role Relationship with User / User Group - Mozilla Firefox https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X</p> <h3>Role Relationship with User / User Group</h3> <p>Close</p> <p>Analysis Criteria</p> <p>Saved Variants: <input type="text"/> Delete</p> <p>System <input type="text"/> is <input type="text"/> MIT Logical System for PS1:030 (ZZF)</p> <p>User Type: <input checked="" type="radio"/> User ID <input type="radio"/> User Group</p> <p>User ID <input type="text"/> is <input type="text"/> <input type="button" value="Search"/></p> <p>Save Variant as: <input type="text"/></p> <p>Run in Foreground Run in Background</p> <p>Close</p>
4B-2	Add the user ID. In this case, 'FF_AR_01', an AR Cashiers FireFighter ID, was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.	 <p>Role Relationship with User / User Group - Mozilla Firefox https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X</p> <h3>Role Relationship with User / User Group</h3> <p>Close</p> <p>Analysis Criteria</p> <p>Saved Variants: <input type="text"/> Delete</p> <p>System <input type="text"/> is <input type="text"/> MIT Logical System for PS1:030 (ZZF)</p> <p>User Type: <input checked="" type="radio"/> User ID <input type="radio"/> User Group</p> <p>User ID <input type="text"/> is <input type="text"/> FF_AR_01 <input type="button" value="Search"/></p> <p>Save Variant as: <input type="text"/></p> <p>Run in Foreground Run in Background</p> <p>Close</p>

4B-3

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Role Relationship with User / User Group - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

Close

Analysis Criteria

Saved Variants: Delete

System is MIT Logical System for PS1:030 (ZZF)

User Type: ☒ User ID ☐ User Group

User ID is FF_AR_01

Save Variant as:

Run in Foreground Run in Background

Close

4B-4

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

System: The system in which the role is assigned to the user

User: User ID of the user with access to the role

User Group Name: User group code (not relevant for this scenario)

Role Name: SAP role name

Role Description: Business name for SAP role

Role Relationship with User / User Group - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc7sap-nwbc-node=navigate_absolute&sap-nwbc-new.window=X

Role Relationship with User / User Group

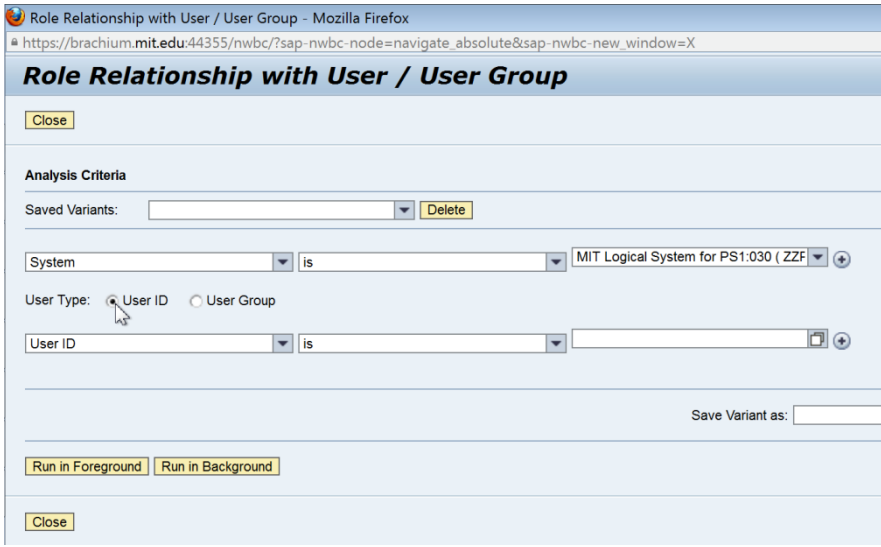
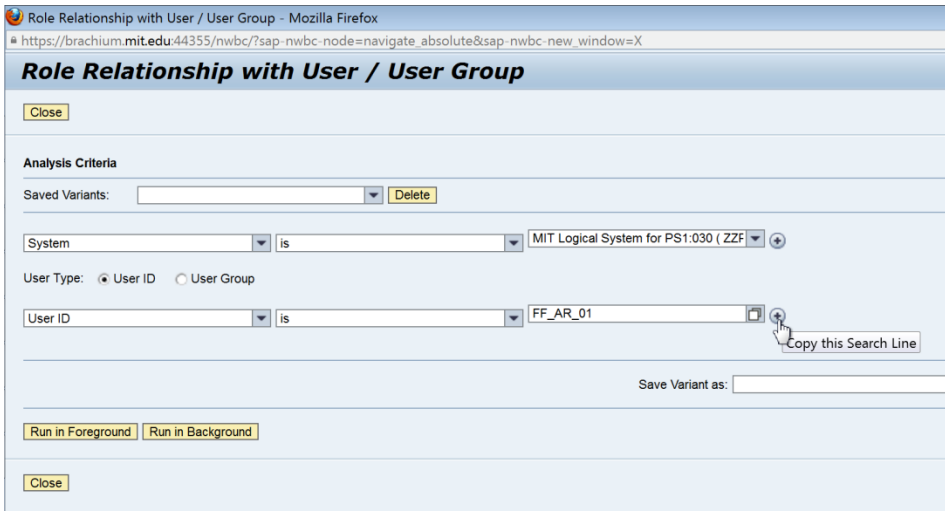
Analysis Criteria

Analysis Results

Result Set: Result Set1 [Go] [Previous] [Next] [Export Result Sets]

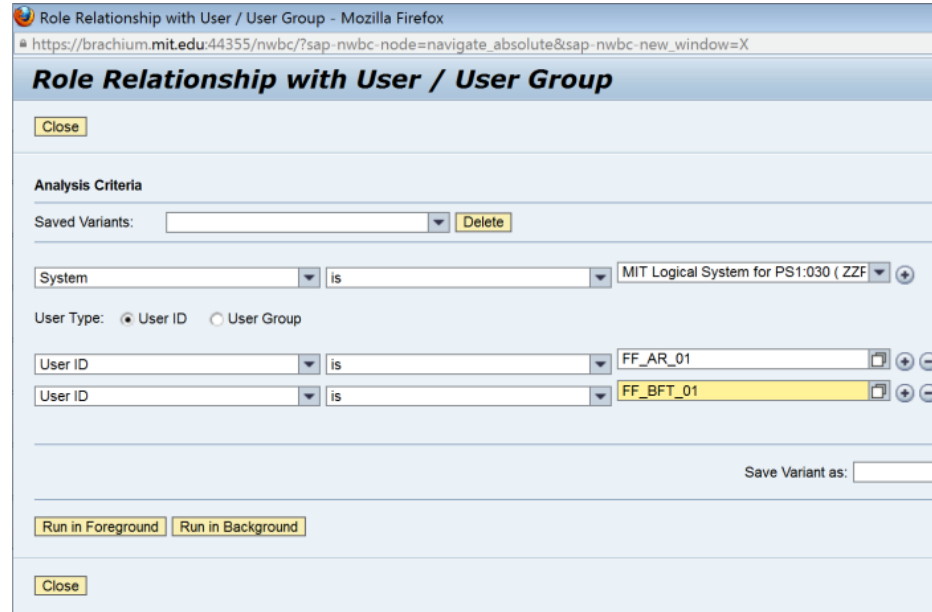
View: [Standard View] [Display As: Table] [Print Version] [Export] [Filter Settings]

System	User	User Group Name	Role Name	Role Description
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_COMMON_BACKGROUND_JOB	CA Create & Monitor Background Jobs RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_COMMON_CO_&FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_DEV_SUPT_ZZARBATCH001_SPOOL	DEV Access for DEV Support to access ZZARBATCH001 Spool
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_SAP_GRAC_EAM_FFID	GRC Firefighter ID
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_AR_FINANCIAL	VPF AR Financial
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_AR_MANAGER	VPF AR Manager Role
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_AR_SENIOR_FINANCIAL	VPF AR Senior Financial Role
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_CR_FINANCIAL	VPF CR Cashiers Financial
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_CR_MANAGER	VPF CR Manager Composite Role
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_ACTNG_CLAIMS	VPF Accounting: Claims
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_AR_ACCOUNT_MAINTENANCE	VPF AR Account Maintenance
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_AR_CR_ZC10	VPF ZC10
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse

4C-1	Analyze by for multiple users by user ID. Click on the dial button next to 'User ID'.	 <p>Role Relationship with User / User Group - Mozilla Firefox https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X</p> <h3>Role Relationship with User / User Group</h3> <p>Close</p> <p>Analysis Criteria</p> <p>Saved Variants: <input type="text"/> Delete</p> <p>System <input type="text"/> is <input type="text"/> MIT Logical System for PS1:030 (ZZF)</p> <p>User Type: <input checked="" type="radio"/> User ID <input type="radio"/> User Group</p> <p>User ID <input type="text"/> is <input type="text"/> <input type="button" value="dial"/></p> <p>Save Variant as: <input type="text"/></p> <p>Run in Foreground Run in Background</p> <p>Close</p>
4C-2	Click on the '+' at the end of the 'User ID' row to add an additional user ID search criterion row for each ID. In this case, one additional row is added; thus, we can analyze for a total of two user IDs.	 <p>Role Relationship with User / User Group - Mozilla Firefox https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X</p> <h3>Role Relationship with User / User Group</h3> <p>Close</p> <p>Analysis Criteria</p> <p>Saved Variants: <input type="text"/> Delete</p> <p>System <input type="text"/> is <input type="text"/> MIT Logical System for PS1:030 (ZZF)</p> <p>User Type: <input checked="" type="radio"/> User ID <input type="radio"/> User Group</p> <p>User ID <input type="text"/> is <input type="text"/> FF_AR_01 <input type="button" value="+"/></p> <p>Copy this Search Line</p> <p>Save Variant as: <input type="text"/></p> <p>Run in Foreground Run in Background</p> <p>Close</p>

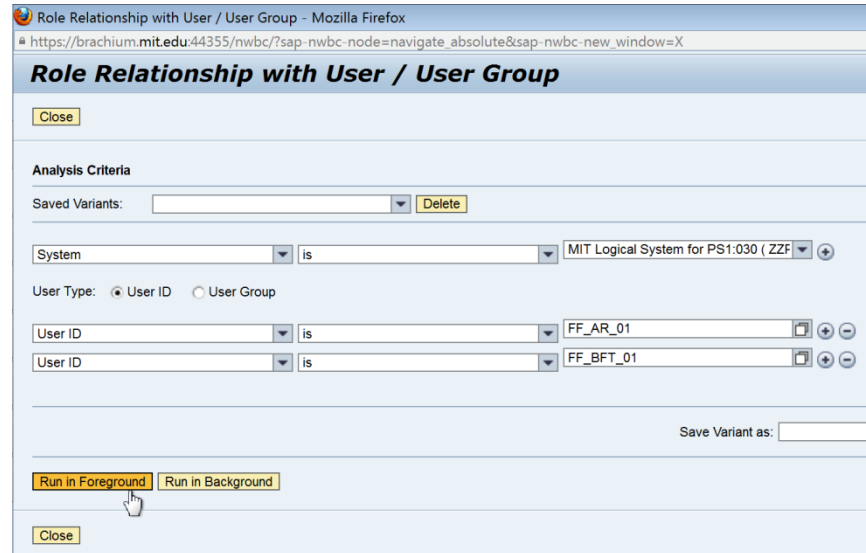
4C-3

Add the user IDs. In this case, 'FF_AR_01' and 'FF_BFT_01', two FireFighter IDs, were typed in. The search option can also be used to search for IDs. Please refer to the 'Search for Input Values' reference document (R3) for further information.



The screenshot shows a web application titled "Role Relationship with User / User Group" running in Mozilla Firefox. The URL is https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X. The interface includes a "Close" button at the top. Below it is the "Analysis Criteria" section, which contains a "Saved Variants:" dropdown and a "Delete" button. The "System" dropdown is set to "MIT Logical System for PS1:030 (ZZF)". The "User Type" is set to "User ID". There are two rows of input fields for "User ID" and "is", with the values "FF_AR_01" and "FF_BFT_01" entered. A "Save Variant as:" field is at the bottom right. At the bottom, there are buttons for "Run in Foreground", "Run in Background", and another "Close" button.

4C-4 Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Role Relationship with User / User Group - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

Close

Analysis Criteria

Saved Variants: Delete

System is MIT Logical System for PS1:030 (ZZF)

User Type: ☒ User ID ☐ User Group

User ID is FF_AR_01

User ID is FF_BFT_01

Save Variant as:

Run in Foreground Run in Background

Close

4C-5 Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

System: The system in which the role is assigned to the user

User: User ID of the user with access to the role

User Group Name: User group code (not relevant for this scenario)

Role Name: SAP role name

Role Description: Business name for SAP role

Role Relationship with User / User Group - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

System	User	User Group Name	Role Name	Role Description
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_COMMON_BACKGROUND_JOB	CA Create & Monitor Background Jobs RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_COMMON_CO_&_FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_DEV_SUPT_ZZARBATCH001_SPOOL	DEV Access for DEV Support to access ZZARBATCH001 Spool
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_SAP_GRAC_EAM_FFID	GRC Firefighter ID
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_AR_FINANCIAL	VPF AR Financial
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_AR_MANAGER	VPF AR Manager Role
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_AR_SENIOR_FINANCIAL	VPF AR Senior Financial Role
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_CR_FINANCIAL	VPF CR Cashiers Financial
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_CR_MANAGER	VPF CR Manager Composite Role
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_ACTNG_CLAIMS	VPF Accounting: Claims
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_AR_ACCOUNT_MAINTENANCE	VPF AR Account Maintenance
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_AR_CR_ZC10	VPF ZC10
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse

4C-6 Sorting on role by clicking on the 'Role Name' column header will show the users grouped by role.

Role Relationship with User / User Group - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Role Relationship with User / User Group

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

System	User	User Group Name	Role Name	Role Description
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Firefighter id FF_BFT_01 (FF_BFT_01)	IS		CA Common to ALL MIT SAP Bus. Users RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_COMMON_BACKGROUND_JOB	CA Create & Monitor Background Jobs RolesDB: N/A
ZZPS103001	Firefighter id FF_BFT_01 (FF_BFT_01)	IS		CA Create & Monitor Background Jobs RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_COMMON_CO_&_FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Firefighter id FF_BFT_01 (FF_BFT_01)	IS		CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Firefighter id FF_BFT_01 (FF_BFT_01)	IS		CA Utils Common to ALL MIT SAP Users RolesDB: N/A
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_DEV_SUPT_ZZARBATCH001_SPOOL	DEV Access for DEV Support to access ZZARBATCH001 Spool
ZZPS103001	Firefighter id FF_BFT_01 (FF_BFT_01)	IS	Z_SAP_GRAC_EAM_FFID	GRC Firefighter ID
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS		GRC Firefighter ID
ZZPS103001	Firefighter id FF_BFT_01 (FF_BFT_01)	IS	Z_VPF_C_AR_FINANCIAL	VPF AR Financial
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_AR_MANAGER	VPF AR Manager Role
ZZPS103001	Firefighter id FF_BFT_01 (FF_BFT_01)	IS	Z_VPF_C_AR_SENIOR_FINANCIAL	VPF AR Senior Financial Role
ZZPS103001	Firefighter id FF_AR_01 (FF_AR_01)	IS	Z_VPF_C_BFT_SR_BDGT_TRES_ANLST	VPF BFT Senior Budget and Treasury Analyst
ZZPS103001	Firefighter id FF_BFT_01 (FF_BFT_01)	IS	Z_VPF_C_BFT_SR_FIN_BDGT_ANLYST	VPF BFT Senior Financial & Budget Analyst

Job Aid 08 SUIM Users by User ID**USE**

This report can be used to display which roles users have and compare their access by sorting by role.

INFORMATION

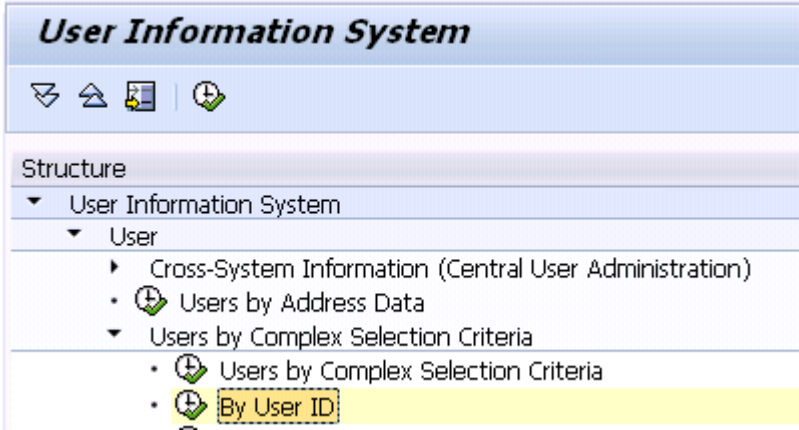


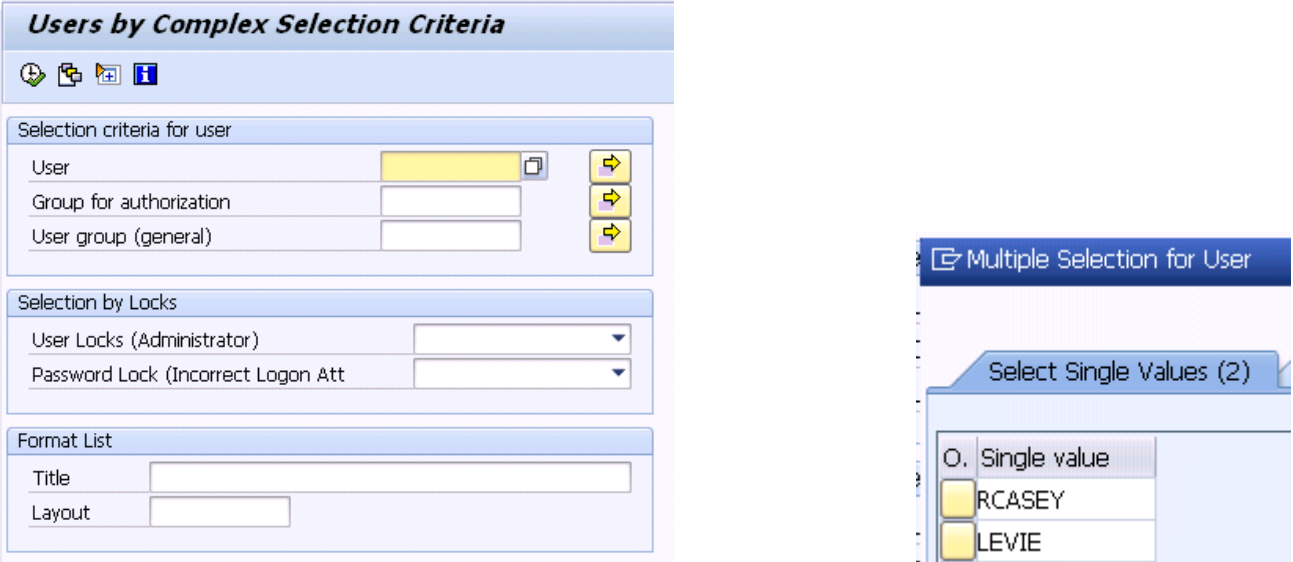
Roles and profiles assigned to users.

RELATED PROCESSES

- Process 1: New or Amended Roles

SPECIFIC SCENARIOS

- N/A

Step	Description	Screenshot
1	<p>In SAP R/3 EEC– use transaction code SUIM.</p> <p>Then click on the “User” node and then “Users by Complex Selection Criteria” – then finally double click on the option for “ByUserId”</p> <p>Or use Transaction Code</p> <ul style="list-style-type: none"> S_BCE_68001394 	
2	<p>Select the Users to be analyzed</p> <p>Use the “Multiple Selection” button  to specify the users, then  to save and exit the multiple selection screen.</p>	

3

The report will show a list of Users matching the selection criteria. It shows :

- User Id and name
- User Group

From this report, you can drill down to get the role assignments.

Users by Complex Selection Criteria

Roles Profiles Change documents

Number of Users Selected: 2


System SF2 **Client** 030 **Checked by** SJCHERNY 05/20/2013 09:46:41

Selection Criteria:

User I EQ RCASEY
I EQ LEVIE

User name	Complete name	User group	Account no	Locked	Reason	Valid from	Valid to	User Type	Ref. User F
LEVIE	KENNETH F LE VIE JR	CAO	422200					A Dialog	
RCASEY	Robert Casey	MR&FO	422200					A Dialog	

4a

Click on  to select both (all) users

Users by Complex Selection Criteria

Roles Profiles Change documents

Number of Users Selected: 2

System SF2 Client 030 Checked by SJCHERNY 05/20/2013 09:47:36

Selection Criteria:
User I EQ RCASEY
I EQ LEVIE

User	Complete name	Group	Account no	Locked	Reason	Valid from	Valid to	User Type	Ref. User	Policy
LEVIE	KENNETH F LE VIE JR	CAO	422200					A Dialog		
RCASEY	Robert Casey	MR&FO	422200					A Dialog		























































































































4b

Click on  to list all the roles for the selected users

Users by Complex Selection Criteria


Role assignments: 2 of 2 users have assignments.

User	Complete name	Role	Type	Assignment Type	Assignment	Start date	End date	Role Name
LEVIE	KENNETH F LE VIE JR	YXAA:DEVELPR_T-S2730072		=		05/07/2013	12/31/9999	AA All Authorizations / Profiles Common to All De
		Y_ZUTTREQ_SF2_2_SF5		=		05/07/2013	12/31/9999	X(Transport) Req. Transport via ZUTTREQ: SF2>
		ZAP1				05/07/2013	12/31/9999	MIT Accounts Payable Clerk
		ZAPA				05/07/2013	12/31/9999	MIT Accounts Payable Administrator
		ZAPA_V1				05/07/2013	12/31/9999	MIT - ZAPA - MIT Accounts Payable Administrato
		ZISP		=		05/07/2013	12/31/9999	MIT Internal Service Providers

<div>4c</div>	<div>Click on the Role Column header and then click on the  Sort (Ascending) icon .</div> <div>This gives a list of Users per role showing :</div> <ul style="list-style-type: none"> User Id and name Role Id and name Type of role <ul style="list-style-type: none">  Composite  Single Start & end date <div>Analysis : either one or both the users have a role.</div> <div>There is no more detailed drilldown from this report.</div>	<div>Role assignments: 2 of 2 users have assignments.</div> <table> <tr> <th>User</th><th>Complete name</th><th>Role</th><th>Type</th><th>Assignment</th><th>Type</th><th>Assignment</th><th>Start date</th><th>End date</th><th>Role Name</th></tr> <tr> <td>RCA...</td><td>Robert Casey</td><td>Y_FI_TEAM_PROFS</td><td></td><td>=</td><td></td><td></td><td>04/24/2012</td><td>12/31/9999</td><td>Admin Comp - FI Team Profiles assigned to all Te</td></tr> <tr> <td>LEV...</td><td>KENNETH F LE VIE JR</td><td>Y_ZUTTREQ_SF2_2_SF5</td><td></td><td>=</td><td></td><td></td><td>05/07/2013</td><td>12/31/9999</td><td>X(Transport) Req. 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





5a

Back to the User list – an alternative display for a single user shows all profiles (not just those from roles)

Click on  to select both (all) users

Then click on  to list the profiles

Users by Complex Selection Criteria

Number of Users Selected: 2

System SF2 **Client** 030 **Checked by** SJCHERNY 05/20/2013 09:47:36

Selection Criteria:
 User I EQ RCASEY
 I EQ LEVIE

User	Complete name	Group	Account no	Locked	Reason	Valid from	Valid to	User Type	Ref. User	Policy
LEVIE	KENNETH F LE VIE JR	CAO	422200					A Dialog		
RCASEY	Robert Casey	MR&FO	422200					A Dialog		

5b

Report shows :

- User Id
- User Group
- Profile Id
- Profile text (may include Role Id if generated from a role)

Note :

The profiles starting with “Z” are mostly related to manual profiles (MIT Custom RolesDB assignment)

The profiles starting with “T-S” are from the SAP Profile Generator (based on SAP Security Roles – one profile per role).

Profile assignments: 2 of 2 users have assignments.

User	Group	Complete name	Profile	Profile Text	Ref. User
LEVIE	CAO	KENNETH F LE VIE JR	T-S2170002	Profile for role Z_NEW_PURCH_TRANS	
	CAO		T-S2170005	Profile for role Z_MIRO	
	CAO		T-S2170016	Profile for role Z_PFCG_DEVELOPER	
	CAO		T-S2170023	Profile for role Z_SMART_FORMS	
	CAO		T-S2170024	Profile for role Z_SMART_STYLES	
	CAO		T-S2170050	Profile for role Z_INVOICE_VERIFY	
	CAO		T-S2170058	Profile for role Z_MIT_EH&S	
	CAO		T-S2170063	Profile for role Z_ASSESSMENTS_DISPLAY	
	CAO		T-S2170071	Profile for role Z_INVOICE_VERIFY_AP	
	CAO		T-S2730018	Profile for role Z_RUN_CATT_SCRIPTS	
	CAO		T-S2730061	Profile for role Z_MIT_DIRECTORY_SERVICES	
	CAO		T-S2730072	Profile for role Y#AA:DEVELPR_T-S2730072	

5c

Sort by Profile / User columns to get a different view.

Only one or both the users have the profiles.

Profile assignments: 2 of 2 users have assignments.

User Name	Group	Complete name	Profile	Profile Text
RCASEY	MR&FO	Robert Casey	T-P1730163	Profile for role Z_CA_ZPMATS_PRICEA
LEVIE	CAO	KENNETH F LE VIE JR	T-S2170002	Profile for role Z_NEW_PURCH_TRANS
RCASEY	MR&FO	Robert Casey		
RCASEY	MR&FO	Robert Casey	T-S2170003	Profile for role ZPUR
LEVIE	CAO	KENNETH F LE VIE JR	T-S2170005	Profile for role Z_MIRO
RCASEY	MR&FO	Robert Casey		
RCASEY	MR&FO	Robert Casey	T-S2170009	Profile for role Z_FS10N
LEVIE	CAO	KENNETH F LE VIE JR	T-S2170016	Profile for role Z_PFCG_DEVELOPER
RCASEY	MR&FO	Robert Casey		
LEVIE	CAO	KENNETH F LE VIE JR	T-S2170023	Profile for role Z_SMART_FORMS
LEVIE	CAO	KENNETH F LE VIE JR	T-S2170024	Profile for role Z_SMART_STYLES
RCASEY	MR&FO	Robert Casey	T-S2170028	Profile for role ZTECR
RCASEY	MR&FO	Robert Casey	T-S21700281	
RCASEY	MR&FO	Robert Casey	T-S2170043	Profile for role Z_CROSS_COMPANY_JV
LEVIE	CAO	KENNETH F LE VIE JR	T-S2170050	Profile for role Z_INVOICE_VERIFY
RCASEY	MR&FO	Robert Casey		
LEVIE	CAO	KENNETH F LE VIE JR	T-S2170058	Profile for role Z_MIT_EH&S
RCASEY	MR&FO	Robert Casey		
LEVIE	CAO	KENNETH F LE VIE JR	T-S2170063	Profile for role Z_ASSESSMENTS_DISPLAY
RCASEY	MR&FO	Robert Casey		
RCASEY	MR&FO	Robert Casey	T-S2170064	Profile for role Z_REPOSTING_COSTS_REVENUES
RCASEY	MR&FO	Robert Casey	T-S2170068	Profile for role Z_COLLECTIVE_ORDER_MGMNT

Job Aid 09 Count Authorizations for Users**USE**

This report can be used to view the roles and profiles assigned to a user.

INFORMATION



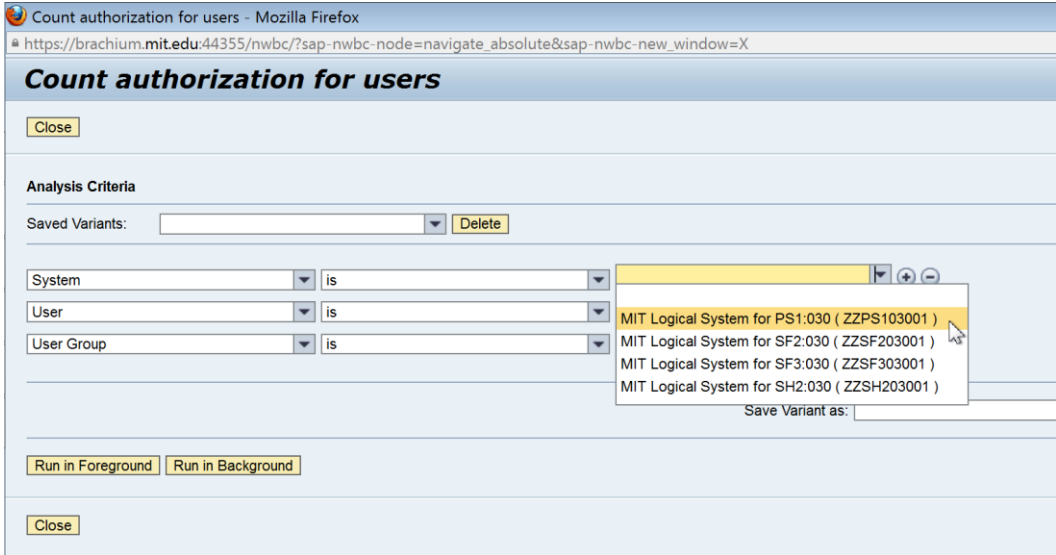
Roles and profiles assigned to a user/users (composite roles are not included; however, single roles assigned via composite roles are) along with the number of authorizations in each.

RELATED PROCESSES

- Process 1: New or Amended Roles

SPECIFIC SCENARIOS

- Step 4A: Analyze for a single user.
- Step 4B: Analyze for a multiple users by user ID.
- Step 4C: Analyze for a multiple users by user group.

Step	Description	Screenshot
1	Navigate to the 'Reports and Analytics' tab.	 <p>Reports and Analytics</p>
2	Click on the 'Count authorization for Users' report located in the 'Security Reports' section.	
3	Select the system for which information is required. In this case, the selection is PS1.	

4A-1 Analyze for a single user.
Click on the '-' at the end of the 'User Group' row to delete the user group search criterion.

Count authorization for users - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Count authorization for users

Close

Analysis Criteria

Saved Variants: Delete

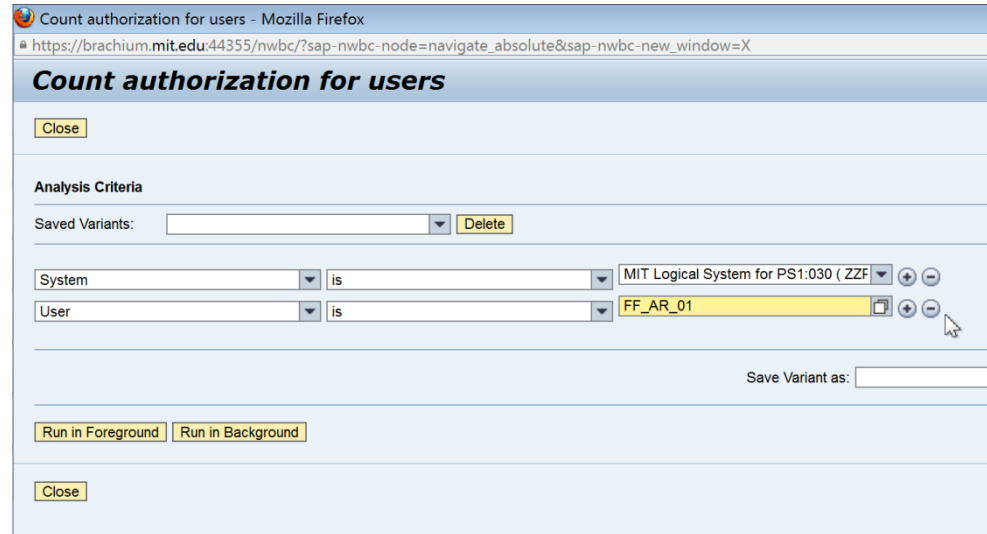
System	User	User Group
MIT Logical System for PS1:030 (ZZF		

Save Variant as:

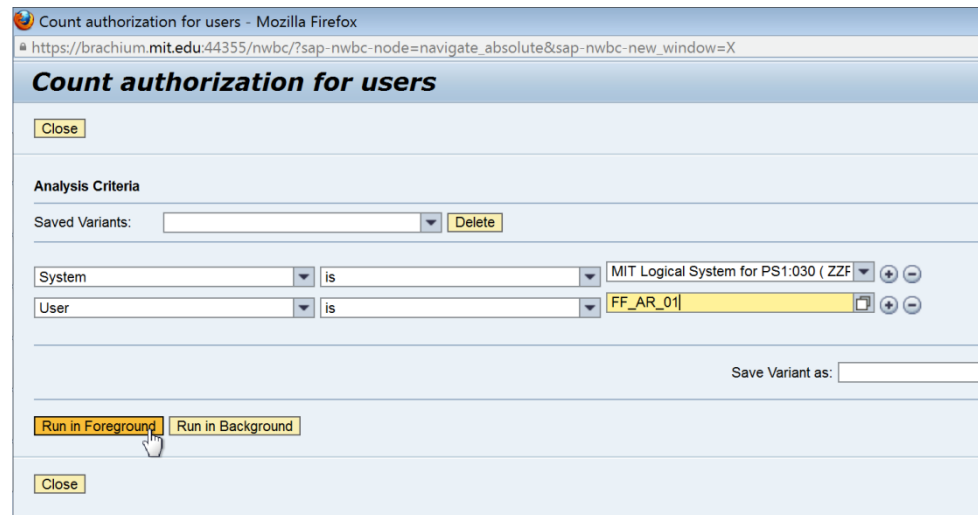
Run in Foreground Run in Background

Close

4A-2 Add the user ID. In this case, 'FF_AR_01', an AR Cashiers FireFighter ID, was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.



4A-3 Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



4A-4

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User: User ID of the user with access to the role

Role Name: SAP role name

Role Description: Business name for SAP role

System: The system in which the role is assigned to the user

Count authorization for users - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Count authorization for users

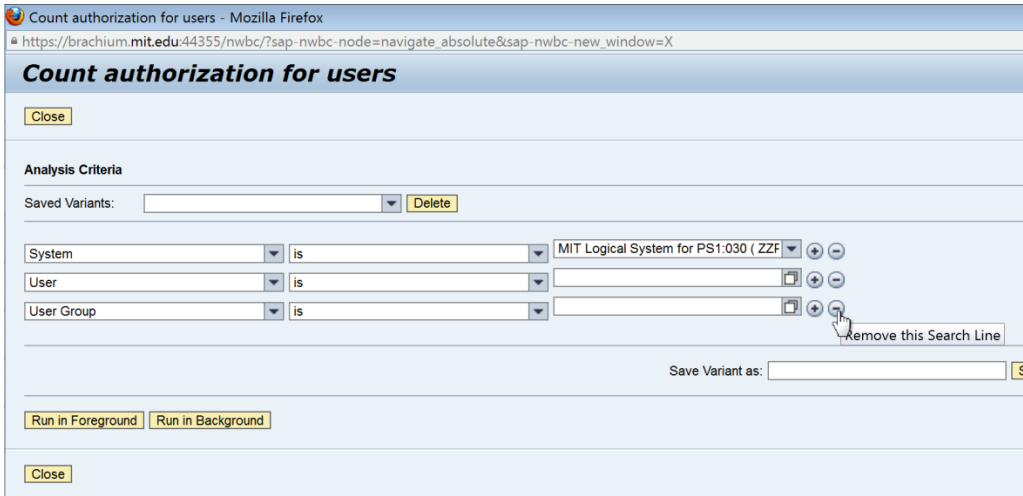
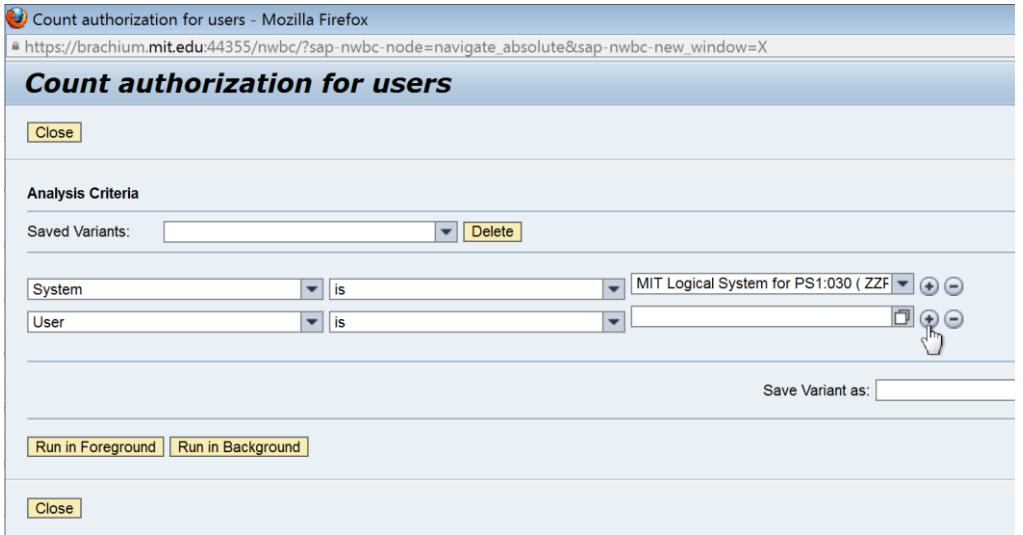
Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

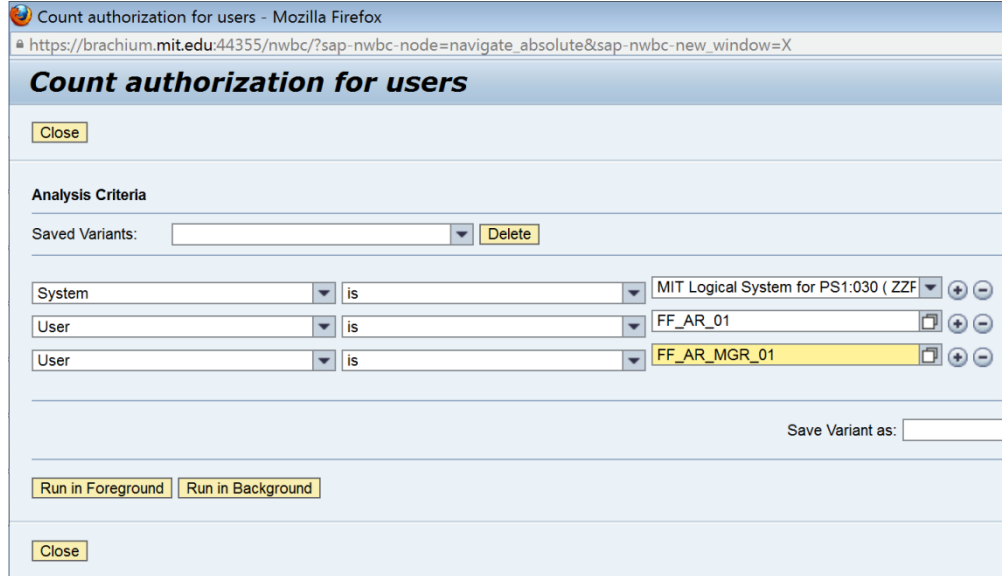
View: * [Standard View] Display As: Table Print Version Export Filter Settings

User	Role Name	Role Description	System
FF_AR_01	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A	ZZPS103001
FF_AR_01	Z_CA_S_COMMON_BACKGROUND_JOB	CA Create & Monitor Background Jobs RolesDB: N/A	ZZPS103001
FF_AR_01	Z_CA_S_COMMON_CO_&_FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A	ZZPS103001
FF_AR_01	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A	ZZPS103001
FF_AR_01	Z_DEV_SUPT_ZZARBATCH001_SPOOL	DEV Access for DEV Support to access ZZARBATCH001 Spool	ZZPS103001
FF_AR_01	Z_SAP_GRAC_EAM_FFID	GRC Firefighter ID	ZZPS103001
FF_AR_01	Z_VPF_S_ACTNG_CLAIMS	VPF Accounting: Claims	ZZPS103001
FF_AR_01	Z_VPF_S_AR_ACCOUNT_MAINTENANCE	VPF AR Account Maintenance	ZZPS103001
FF_AR_01	Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	ZZPS103001
FF_AR_01	Z_VPF_S_AR_CR_ZC10	VPF ZC10	ZZPS103001
FF_AR_01	Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	ZZPS103001
FF_AR_01	Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	ZZPS103001
FF_AR_01	Z_VPF_S_AR_GENERAL	VPF AR General	ZZPS103001
FF_AR_01	Z_VPF_S_AR_HR_DATA	VPF AR HR Data	ZZPS103001
FF_AR_01	Z_VPF_S_AR_INVOICE_PROCESS	VPF AR Invoice Process	ZZPS103001
FF_AR_01	Z_VPF_S_AR_MANAGER	VPF AR Manager	ZZPS103001

4B-1	<p>Analyze for a multiple users by user ID. Click on the ‘-’ at the end of the ‘User Group’ row to delete the user group search criterion.</p>	 <p>The screenshot shows the 'Count authorization for users' interface. Under 'Analysis Criteria', there are three rows: 'System', 'User', and 'User Group'. Each row has a dropdown menu, a comparison operator (all set to 'is'), and a value field. The 'User Group' row has a minus sign button at the end, which is highlighted by a mouse cursor. Other buttons include 'Close', 'Delete', 'Run in Foreground', 'Run in Background', and 'Save Variant as:'.</p>
4B-2	<p>Click on the ‘+’ at the end of the ‘User’ row to add an additional user ID search criterion row for each ID. In this case, one additional row is added; thus, we can analyze for a total of two user IDs.</p>	 <p>This screenshot is similar to the previous one, but the plus sign button at the end of the 'User' row is highlighted by a mouse cursor, indicating it should be clicked to add a new search criterion row.</p>

4B-3

Add the user IDs. In this case, 'FF_AR_01' and 'FF_AR_MGR_01', two AR Cashiers FireFighter IDs, were typed in. The search option can also be used to search for IDs. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Count authorization for users - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Count authorization for users

[Close](#)

Analysis Criteria

Saved Variants: [Delete](#)

System	is	
MIT Logical System for PS1:030 (ZZF		+ -
User	is	FF_AR_01 + -
User	is	FF_AR_MGR_01 + -

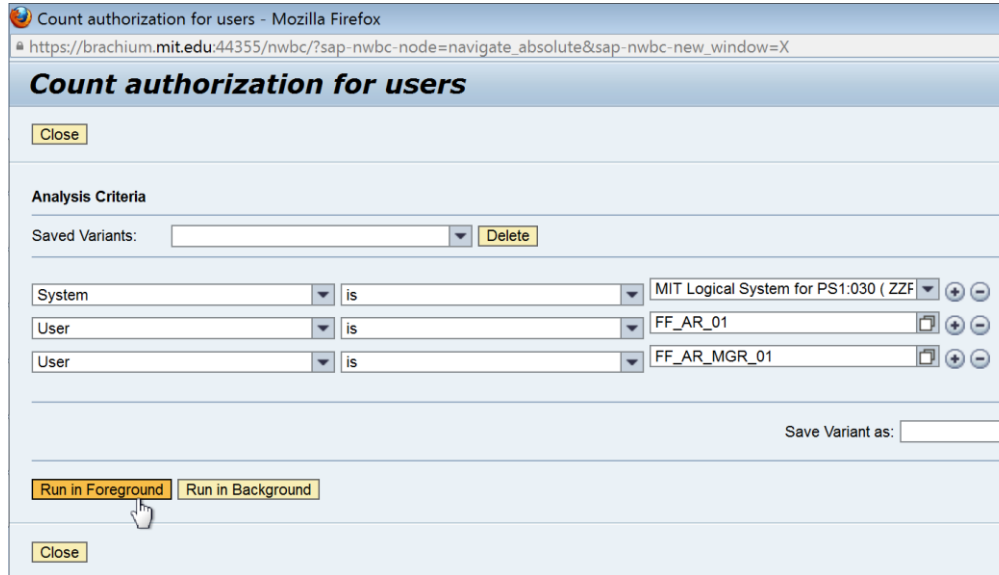
Save Variant as:

[Run in Foreground](#) [Run in Background](#)

[Close](#)

4B-4

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Count authorization for users - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Count authorization for users

Close

Analysis Criteria

Saved Variants: Delete

System	is	
MIT Logical System for PS1:030 (ZZF		+ -
User	is	FF_AR_01 + -
User	is	FF_AR_MGR_01 + -

Save Variant as:

Run in Foreground Run in Background

Close

4B-5

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User: User ID of the user with access to the role

Role Name: SAP role name

Role Description: Business name for SAP role

System: The system in which the role is assigned to the user

Count authorization for users - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Count authorization for users

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

User	Role Name	Role Description	System
FF_AR_01	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A	ZZPS103001
FF_AR_01	Z_CA_S_COMMON_BACKGROUND_JOB	CA Create & Monitor Background Jobs RolesDB: N/A	ZZPS103001
FF_AR_01	Z_CA_S_COMMON_CO_&FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A	ZZPS103001
FF_AR_01	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A	ZZPS103001
FF_AR_01	Z_DEV_SUPT_ZZARBATCH001_SPOOL	DEV Access for DEV Support to access ZZARBATCH001 Spool	ZZPS103001
FF_AR_01	Z_SAP_GRAC_EAM_FFID	GRC Firefighter ID	ZZPS103001
FF_AR_01	Z_VPF_S_ACTNG_CLAIMS	VPF Accounting: Claims	ZZPS103001
FF_AR_01	Z_VPF_S_AR_ACCOUNT_MAINTENANCE	VPF AR Account Maintenance	ZZPS103001
FF_AR_01	Z_VPF_S_AR_ARCH_INV	VPF A/R Access for Archived Document Attachments	ZZPS103001
FF_AR_01	Z_VPF_S_AR_CR_ZC10	VPF ZC10	ZZPS103001
FF_AR_01	Z_VPF_S_AR_DOCUMENT_REVERSE	VPF AR Document Reverse	ZZPS103001
FF_AR_01	Z_VPF_S_AR_FINANCIAL_LCP1_ACC	VPF AR Display access for LCP1	ZZPS103001
FF_AR_01	Z_VPF_S_AR_GENERAL	VPF AR General	ZZPS103001
FF_AR_01	Z_VPF_S_AR_HR_DATA	VPF AR HR Data	ZZPS103001
FF_AR_01	Z_VPF_S_AR_INVOICE_PROCESS	VPF AR Invoice Process	ZZPS103001
FF_AR_01	Z_VPF_S_AR_MANAGER	VPF AR Manager	ZZPS103001

4C-1 Analyze for a multiple users by user group. Click on the ‘-’ at the end of the ‘User’ row to delete the user ID search criterion.

Count authorization for users - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Count authorization for users

Close

Analysis Criteria

Saved Variants: Delete

System is MIT Logical System for PS1:030 (ZZF) + -

User is + - Remove this Search Line

User Group is + -

Save Variant as:

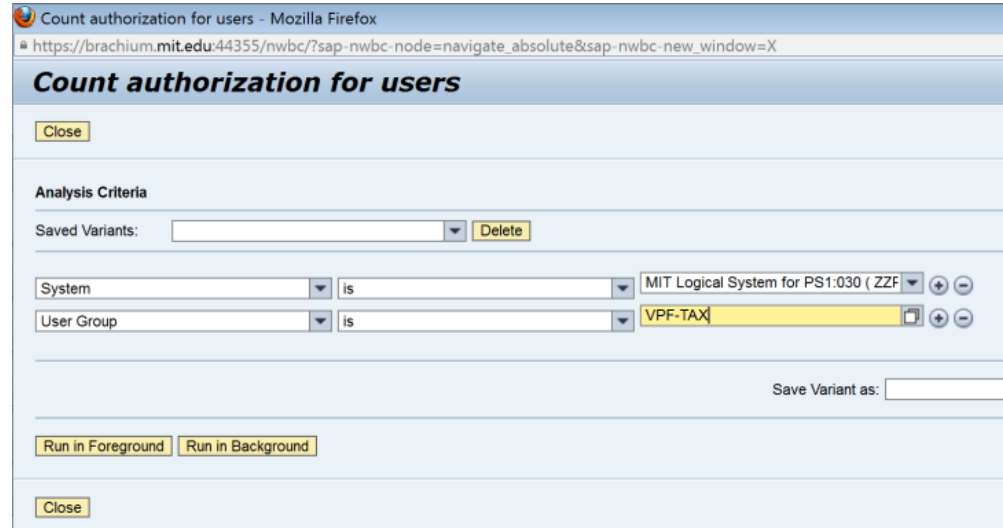
Run in Foreground Run in Background

Close

4C-2

Add the user group. In this case, 'VPF-TAX', the user group containing all user in VPF who are part of the Tax area, was typed in. The search option can also be used to search for user groups. Please refer to the 'Search for Input Values' reference document (R3) for further information.

NOTE: The report can also be executed for multiple user groups by following steps similar to those outlined for multiple user IDs in steps 4B.



The screenshot shows a web browser window titled "Count authorization for users - Mozilla Firefox". The address bar displays a URL starting with "https://brachium.mit.edu". The main heading is "Count authorization for users". Below the heading is a "Close" button. The "Analysis Criteria" section includes a "Saved Variants:" dropdown menu with a "Delete" button. There are two rows of input fields: "System" and "User Group", each followed by a dropdown menu and a text input field. The "System" field is set to "MIT Logical System for PS1:030 (ZZF)". The "User Group" field is set to "VPF-TAX". Below these fields is a "Save Variant as:" label and an empty text input field. At the bottom of the form are two buttons: "Run in Foreground" and "Run in Background", and a "Close" button.

4C-3

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.

Count authorization for users - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Count authorization for users

Close

Analysis Criteria

Saved Variants: Delete

System is MIT Logical System for PS1:030 (ZZF

User Group is VPF-TAX

Save Variant as:

Run in Foreground Run in Background

Close

4C-4

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User: User ID of the user with access to the role

Role Name: SAP role name

Role Description: Business name for SAP role

System: The system in which the role is assigned to the user

Count authorization for users - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Count authorization for users

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: * [Standard View] Display As: Table Print Version Export Filter Settings

User	Role Name	Role Description	System
LCTRAN	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A	ZZPS103001
LCTRAN	Z_CA_S_COMMON_CO_&_FUND_RPTING	CA Cost Object & Fund Reptng Trans Acc. RolesDB: N/A	ZZPS103001
LCTRAN	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A	ZZPS103001
LCTRAN	Z_FAC_S_ATTACH_EQUIP_DOCS	PR Attach External Docs. to Equip. Recs. RolesDB: ?	ZZPS103001
LCTRAN	Z_FAC_S_SEMO_ORDERS	FAC Semo Web Orders RolesDB: ?	ZZPS103001
LCTRAN	Z_HRLSO_S_CREATE_HR_ENTRY	Portal Grp: Access for LSO Create HR Ent RolesDB: N/A	ZZPS103001
LCTRAN	Z_HRLSO_S_LEARNER	Portal Grp: Access for LSO Learner RolesDB: N/A	ZZPS103001
LCTRAN	Z_MIT_ESS_BASIC_FUNCTIONS	MIT Employee Self-Service (HR Benefits Incl.)	ZZPS103001
LCTRAN	Z_MIT_ESS_BEN_DEPENDENTS_UPD	MIT Employee Self-Service (HR Benefits Incl.)	ZZPS103001
LCTRAN	Z_MIT_ESS_BEN_ENROLLMENT_DIS	MIT Employee Self-Service (HR Benefits Incl.)	ZZPS103001
LCTRAN	Z_MIT_ESS_DIRECT_DEPOSIT	MIT - ESS Access to Update Bank Details	ZZPS103001
LCTRAN	Z_MIT_ESS_DIR_ADDRESS_UPD	Person Directory Entry Lookup, Maintain Own Directory Entry	ZZPS103001
LCTRAN	Z_MIT_ESS_DIR_PERSDATA_UPD	Person Directory Entry Lookup, Maintain Own Directory Entry	ZZPS103001
LCTRAN	Z_MIT_ESS_TEM_USER_ACCESS	HR Acc. assigned to ALL SAP User IDs RolesDB: N/A	ZZPS103001
LCTRAN	Z_MIT_ESS_TUITION_ASSISTANCE	MIT - Employee Self-Service Access: Tuition Assistance	ZZPS103001
LCTRAN	Z_MIT_ESS_VACATION_ENTRY	MIT - ESS Vacation Entry	ZZPS103001

4C-5

Sorting on role by clicking on the 'Role Name' column header will show the users grouped by role.

Count authorization for users - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate.absolute&sap-nwbc-new-window=X

Count authorization for users

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

User	Role Name	Role Description	System
LCTRAN	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A	ZZPS103001
LCTRAN	Z_CA_S_COMMON_CO_&FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A	ZZPS103001
LCTRAN	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A	ZZPS103001
LCTRAN	Z_FAC_S_ATTACH_EQUIP_DOCS	PR Attach External Docs. to Equip. Recs. RolesDB: ?	ZZPS103001
LCTRAN	Z_FAC_S_SEMO_ORDERS	FAC Semo Web Orders RolesDB: ?	ZZPS103001
LCTRAN	Z_HRLSO_S_CREATE_HR_ENTRY	Portal Grp: Access for LSO Create HR Ent RolesDB: N/A	ZZPS103001
LCTRAN	Z_HRLSO_S_LEARNER	Portal Grp: Access for LSO Learner RolesDB: N/A	ZZPS103001
LCTRAN	Z_MIT_ESS_BASIC_FUNCTIONS	MIT Employee Self-Service (HR Benefits Incl.)	ZZPS103001
LCTRAN	Z_MIT_ESS_BEN_DEPENDENTS_UPD	MIT Employee Self-Service (HR Benefits Incl.)	ZZPS103001
LCTRAN	Z_MIT_ESS_BEN_ENROLLMENT_DIS	MIT Employee Self-Service (HR Benefits Incl.)	ZZPS103001
LCTRAN	Z_MIT_ESS_DIRECT_DEPOSIT	MIT - ESS Access to Update Bank Details	ZZPS103001
LCTRAN	Z_MIT_ESS_DIR_ADDRESS_UPD	Person Directory Entry Lookup. Maintain Own Directory Entry	ZZPS103001
LCTRAN	Z_MIT_ESS_DIR_PERSDATA_UPD	Person Directory Entry Lookup. Maintain Own Directory Entry	ZZPS103001
LCTRAN	Z_MIT_ESS_TEM_USER_ACCESS	HR Acc. assigned to ALL SAP User IDs RolesDB: N/A	ZZPS103001
LCTRAN	Z_MIT_ESS_TUITION_ASSISTANCE	MIT - Employee Self-Service Access: Tuition Assistance	ZZPS103001
LCTRAN	Z_MIT_ESS_VACATION_ENTRY	MIT - ESS Vacation Entry	ZZPS103001

Count authorization for users - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate.absolute&sap-nwbc-new-window=X

Count authorization for users

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

User	Role Name	Role Description	System
LCTRAN	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A	ZZPS103001
RCBERGER	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A	ZZPS103001
RSOOHOO	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A	ZZPS103001
WVU	Z_CA_S_BUS_FUNCS_COMMON_TO_BUS	CA Common to ALL MIT SAP Bus. Users RolesDB: N/A	ZZPS103001
LCTRAN	Z_CA_S_COMMON_CO_&FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A	ZZPS103001
RCBERGER	Z_CA_S_COMMON_CO_&FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A	ZZPS103001
RSOOHOO	Z_CA_S_COMMON_CO_&FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A	ZZPS103001
WVU	Z_CA_S_COMMON_CO_&FUND_RPTING	CA Cost Object & Fund Repting Trans Acc. RolesDB: N/A	ZZPS103001
LCTRAN	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A	ZZPS103001
RCBERGER	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A	ZZPS103001
RSOOHOO	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A	ZZPS103001
WVU	Z_CA_S_UTILITIES_COMMON_TO_ALL	CA Utils Common to ALL MIT SAP Users RolesDB: N/A	ZZPS103001
LCTRAN	Z_FAC_S_ATTACH_EQUIP_DOCS	PR Attach External Docs. to Equip. Recs. RolesDB: ?	ZZPS103001
RCBERGER	Z_FAC_S_ATTACH_EQUIP_DOCS	PR Attach External Docs. to Equip. Recs. RolesDB: ?	ZZPS103001
RSOOHOO	Z_FAC_S_ATTACH_EQUIP_DOCS	PR Attach External Docs. to Equip. Recs. RolesDB: ?	ZZPS103001
WVU	Z_FAC_S_ATTACH_EQUIP_DOCS	PR Attach External Docs. to Equip. Recs. RolesDB: ?	ZZPS103001

Job Aid 10 Action Usage by User Role and Profile**USE**

This report can be used to determine transaction usage by a user.

INFORMATION



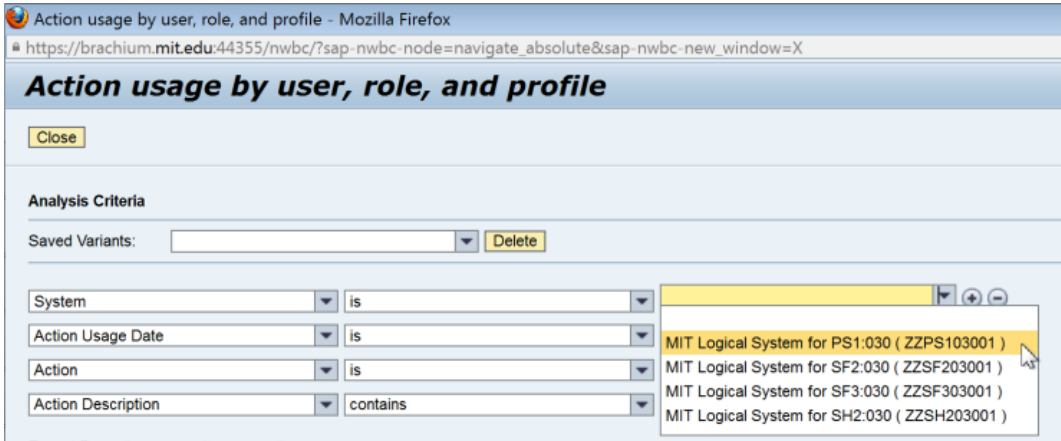
Count and last execution of transaction usage by a user or set of users during a period or on a particular date.

RELATED PROCESSES

- Process 1: New or Amended Roles

SPECIFIC SCENARIOS

- Step 8A: Analyze by for a single user by user ID.
- Step 8B: Analyze by for multiple users by user ID.
- Step 8C: Analyze by for a single user group.
- Step 8D: Analyze by for a single role.
- Step 8E: Analyze by for a single profile.

Step	Description	Screenshot
1	Navigate to the 'Reports and Analytics' tab.	 <p>Reports and Analytics</p>
2	Click on the 'Action Usage by User, Role and Profile' report located in the 'Security Reports' section.	 <p>Security Reports</p> <p>View details related to user, role, and profile security</p> <p>Quick Links</p> <ul style="list-style-type: none"> Action Usage by User, Role and Profile Count authorization in Roles Count authorization for Users List Expired and Expiring Roles for Users
3	Select the system for which information is required. In this case, the selection is PS1.	 <p>Action usage by user, role, and profile - Mozilla Firefox</p> <p>https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X</p> <p>Action usage by user, role, and profile</p> <p>Close</p> <p>Analysis Criteria</p> <p>Saved Variants: <input type="text"/> Delete</p> <p>System: <input type="text"/> is <input type="text"/></p> <p>Action Usage Date: <input type="text"/> is <input type="text"/></p> <p>Action: <input type="text"/> is <input type="text"/></p> <p>Action Description: <input type="text"/> contains <input type="text"/></p> <p>MIT Logical System for PS1:030 (ZZPS1030001)</p> <p>MIT Logical System for SF2:030 (ZZSF2030001)</p> <p>MIT Logical System for SF3:030 (ZZSF3030001)</p> <p>MIT Logical System for SH2:030 (ZZSH2030001)</p>

4

Select the period for which the report will be executed. The operand for the 'Action Usage Date' search criterion can be changed from 'is' to 'is between', 'is earlier than', and 'is later than'. Most often, analysis will be needed for a period of time; therefore, the 'is between' operand is recommended.

Click on the calendar icons to select a period. In this case, a period is defined of 04/01/2013 to 04/30/2013.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZ)

Action Usage Date [] is []

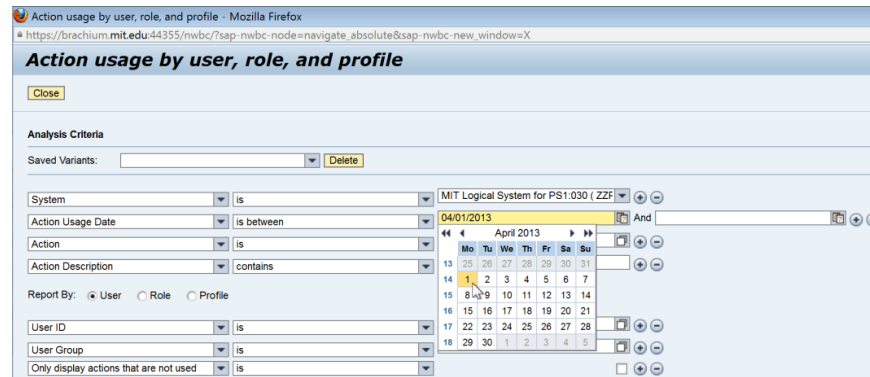
Action [] is []

Action Description [] is between []

Action Description [] is earlier than []

Action Description [] is later than []

Report By: ☒ User ☐ Role ☐ Profile



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZ)

Action Usage Date [] is between [] 04/01/2013

Action [] is []

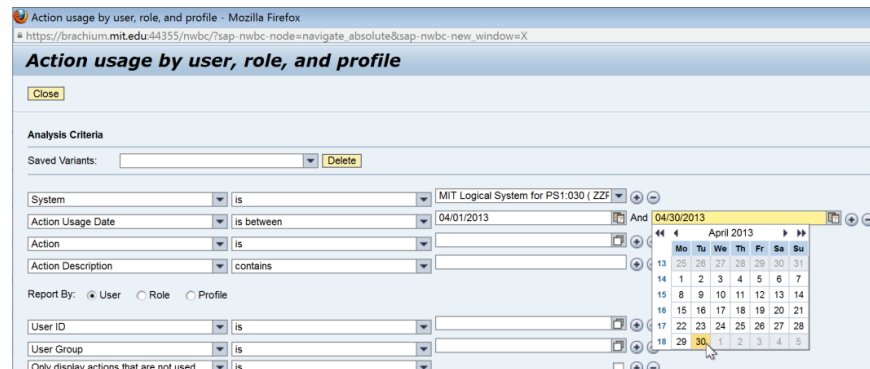
Action Description [] contains []

Report By: ☒ User ☐ Role ☐ Profile

User ID [] is []

User Group [] is []

Only display actions that are not used [] is []



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZ)

Action Usage Date [] is between [] 04/01/2013 And 04/30/2013

Action [] is []

Action Description [] contains []

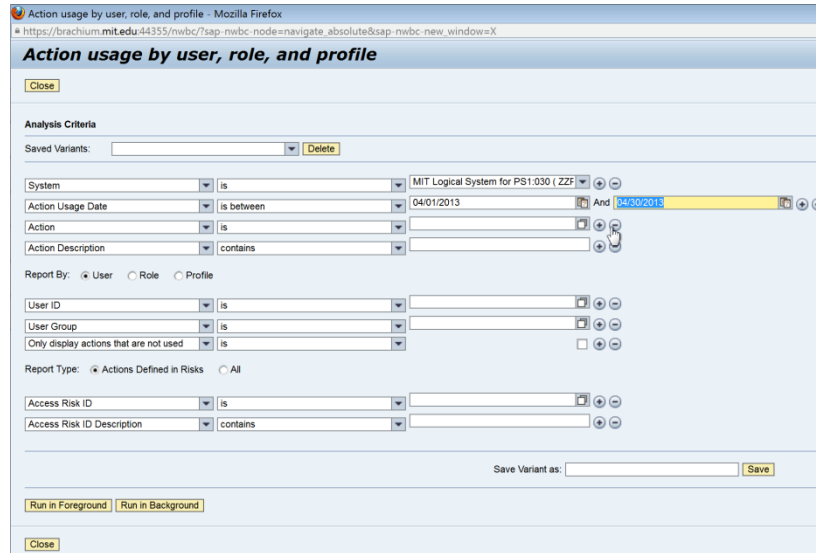
Report By: ☒ User ☐ Role ☐ Profile

User ID [] is []

User Group [] is []

Only display actions that are not used [] is []

5 Click on the '-' at the end of the 'Action' row to remove the Action search criterion row; this criterion can be used for scenarios where analysis is required for a particular transaction only.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System is MIT Logical System for PS1-030 (ZZ)

Action Usage Date is between 04/01/2013 And 04/30/2013

Action is

Action Description contains

Report By: ☒ User ☐ Role ☐ Profile

User ID is

User Group is

Only display actions that are not used is

Report Type: ☒ Actions Defined in Risks ☐ All

Access Risk ID is

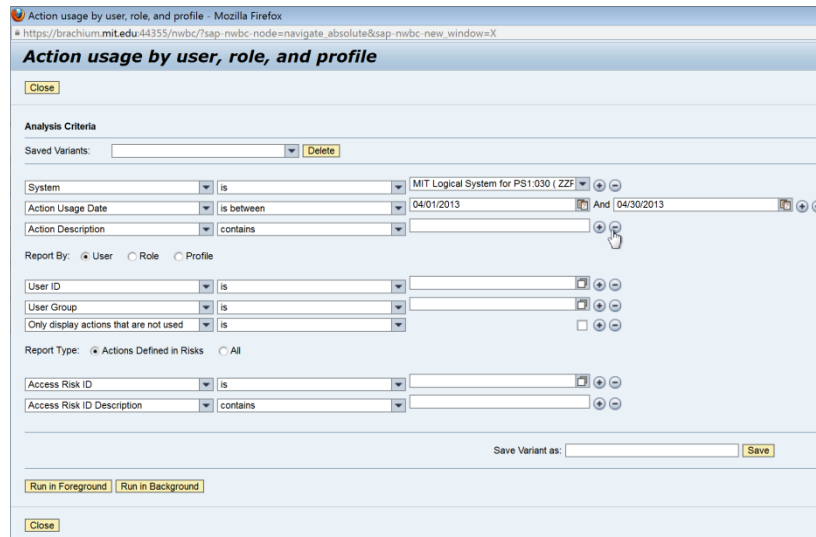
Access Risk ID Description contains

Save Variant as: [] Save

Run in Foreground Run in Background

Close

6 Click on the '-' at the end of the 'Action Description' row to remove the Action Description search criterion row.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System is MIT Logical System for PS1-030 (ZZ)

Action Usage Date is between 04/01/2013 And 04/30/2013

Action Description contains

Report By: ☒ User ☐ Role ☐ Profile

User ID is

User Group is

Only display actions that are not used is

Report Type: ☒ Actions Defined in Risks ☐ All

Access Risk ID is

Access Risk ID Description contains

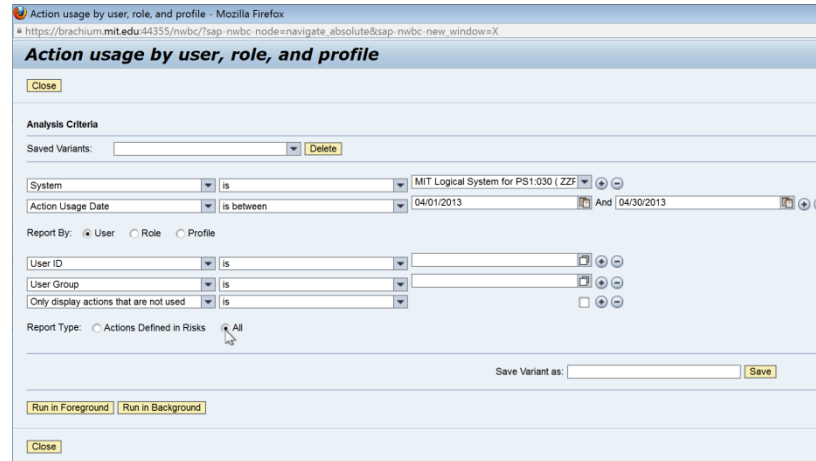
Save Variant as: [] Save

Run in Foreground Run in Background

Close

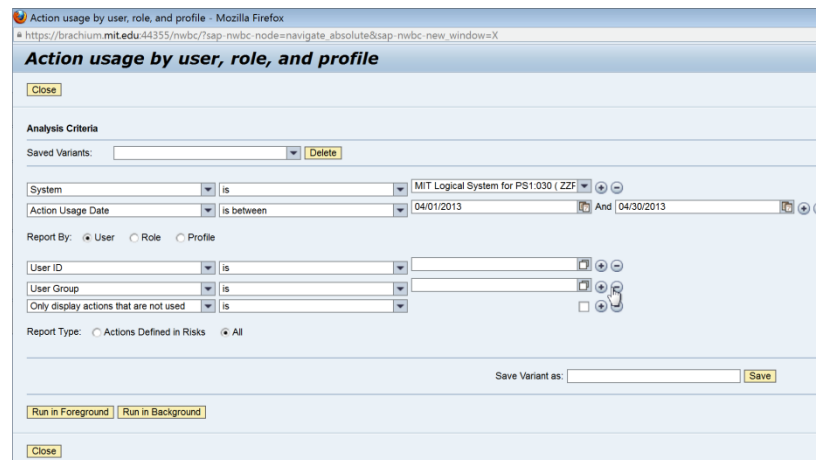
7

In the 'Report Type' section, click on the dial button next to 'All'; if necessary, this criterion can be used to limit report information to only transactions that are defined in risks within the GLOBAL rule set.

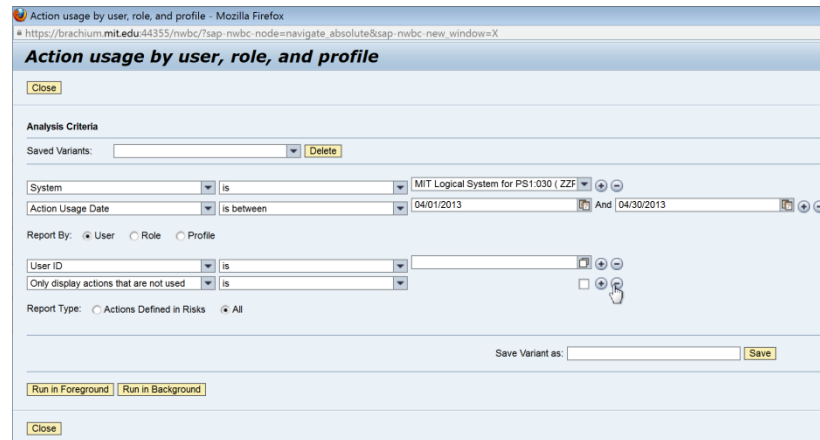


8A-1

Analyze by for a single user by user ID. In the 'Report By' section, click on the dial button next to 'User'. Click on the '-' at the end of the 'User Group' row to remove the user group search criterion row.



8A-2 Click on the '-' at the end of the 'Only display actions that are not used' row to remove the option; if necessary, this criterion can be used to limit report information to only transactions that have not been executed (i.e. have 0 execution counts).



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZ) [] []

Action Usage Date [] is between [] 04/01/2013 [] And [] 04/30/2013 [] []

Report By: ☒ User ☐ Role ☐ Profile

User ID [] is [] [] []

Only display actions that are not used [] is [] [] []

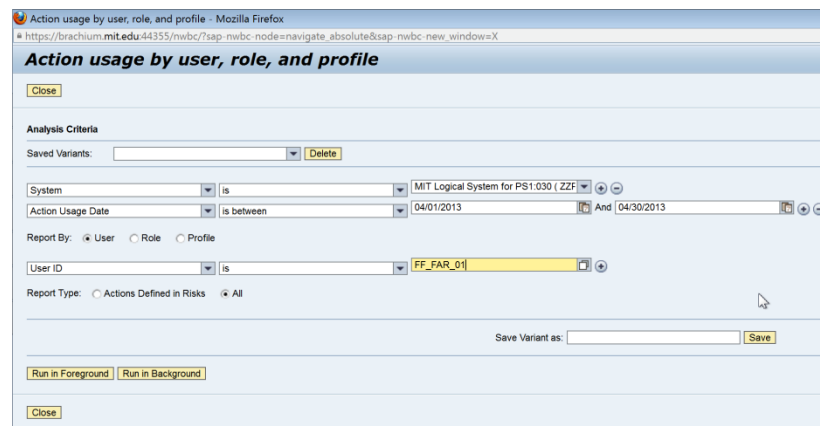
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [] Save

Run in Foreground Run in Background

Close

8A-3 Add the user ID. In this case, 'FF_AR_01', an AR Cashiers FireFighter ID, was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZ) [] []

Action Usage Date [] is between [] 04/01/2013 [] And [] 04/30/2013 [] []

Report By: ☒ User ☐ Role ☐ Profile

User ID [] is [] FF_AR_01 [] []

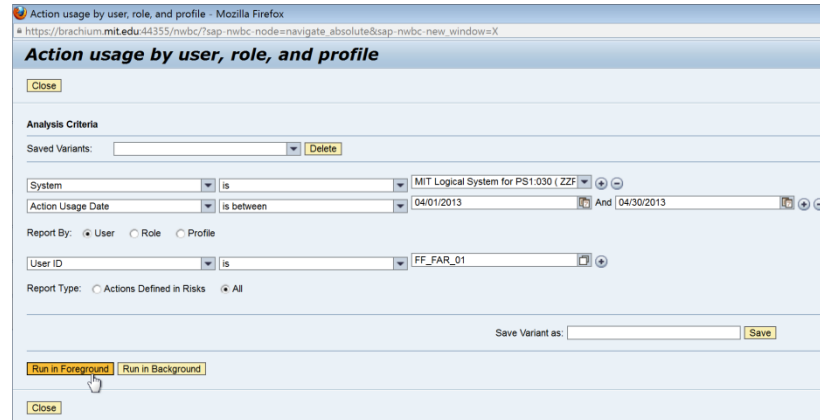
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [] Save

Run in Foreground Run in Background

Close

8A-4 Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



8A-5

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

System: The system in which the role is assigned to the user

Action: SAP transaction

Action Description: SAP transaction name

User: User ID

User Name: User name associated with user ID

Execution Count: Number of times transaction was executed for a specified time period

Last Executed On: Date of last execution of transaction

Action usage by user, role, and profile - Mozilla Firefox

https://brachum.mit.edu:44355/nwbc/?sap-nwbc:node=navigate_absolute&sap-nwbc:node=new_window=X

Action usage by user, role, and profile

Analysis Criteria

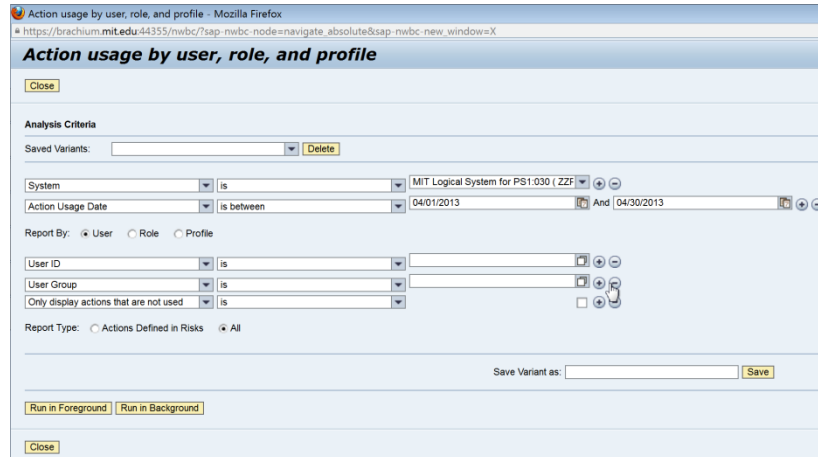
Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format: Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	FB03	Display Document	FF_FAR_01	Firefighter id FF_FAR_01	1	04/26/2013 10:02:17
ZZPS103001	FBL3N	G/L Account Line Items	FF_FAR_01	Firefighter id FF_FAR_01	1	04/26/2013 10:02:42
ZZPS103001	SM37	Overview of job selection	FF_FAR_01	Firefighter id FF_FAR_01	2	04/26/2013 10:03:08
ZZPS103001	SU53	Evaluate Authorization Check	FF_FAR_01	Firefighter id FF_FAR_01	1	04/26/2013 10:02:33
ZZPS103001	+C03	ZISP: Call area menu ZISP	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	+C05	MIT Reports	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	6KEA	Profit Center: Display Changes	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AAVN	Recalculate base insurable value	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AB01	Create asset transactions	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AB02	Change asset document	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AB03	Display Asset Document	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AB08	Reverse Line Items	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAA	Unplanned depreciation	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAD	Asset Retire. frm Sale w/ Customer	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAD0	Derivation: Initial Screen	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAO	Asset Sale Without Customer	FF_FAR_01	Firefighter id FF_FAR_01	0	

8B-1 Analyze by for multiple users by user ID. In the 'Report By' section, click on the '-' at the end of the 'User Group' row to remove the user group search criterion row.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

[Close](#)

Analysis Criteria

Saved Variants: [Delete](#)

System is MIT Logical System for PS1:030 (ZZFI) [+](#) [-](#)

Action Usage Date is between 04/01/2013 [+](#) [-](#) And 04/30/2013 [+](#) [-](#)

Report By: ☒ User ☐ Role ☐ Profile

User ID is [+](#) [-](#)

User Group is [+](#) [-](#)

Only display actions that are not used is [+](#) [-](#)

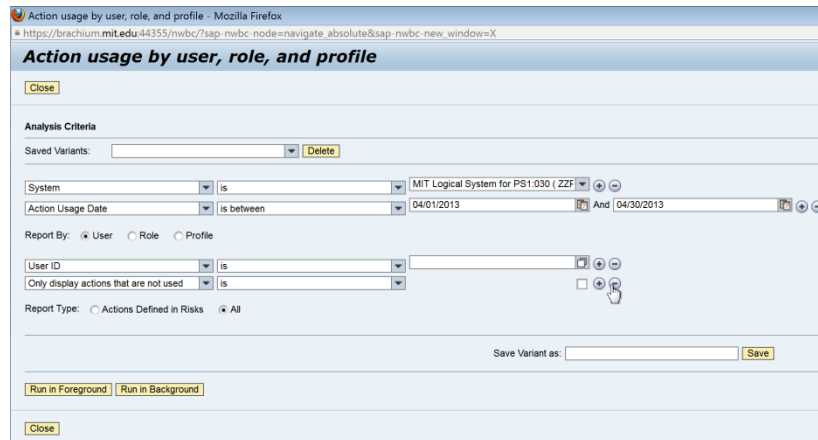
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [Save](#)

[Run in Foreground](#) [Run in Background](#)

[Close](#)

8B-2 Click on the '-' at the end of the 'Only display actions that are not used' row to remove the option; if necessary, this criterion can be used to limit report information to only transactions that have not been executed (i.e. have 0 execution counts).



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

[Close](#)

Analysis Criteria

Saved Variants: [Delete](#)

System is MIT Logical System for PS1:030 (ZZFI) [+](#) [-](#)

Action Usage Date is between 04/01/2013 [+](#) [-](#) And 04/30/2013 [+](#) [-](#)

Report By: ☒ User ☐ Role ☐ Profile

User ID is [+](#) [-](#)

Only display actions that are not used is [+](#) [-](#)

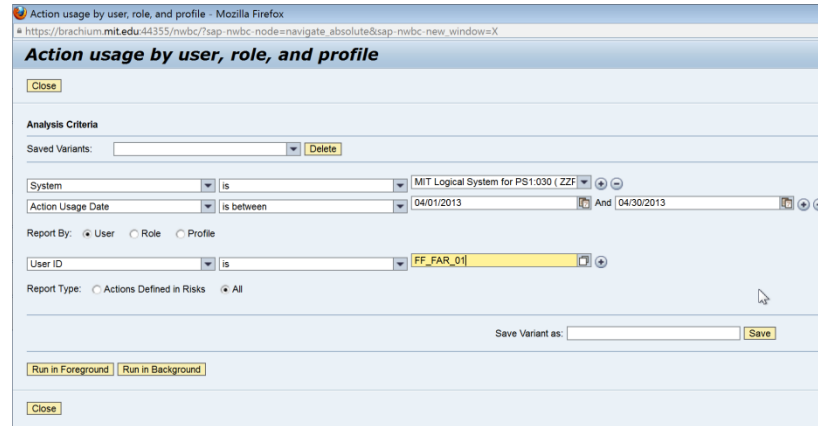
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [Save](#)

[Run in Foreground](#) [Run in Background](#)

[Close](#)

8B-3 Add the user ID. In this case, 'FF_AR_01', an AR Cashiers FireFighter ID, was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZF) [] []

Action Usage Date [] is between [] 04/01/2013 [] And [] 04/30/2013 [] []

Report By: ☒ User ☐ Role ☐ Profile

User ID [] is [] FF_AR_01 [] []

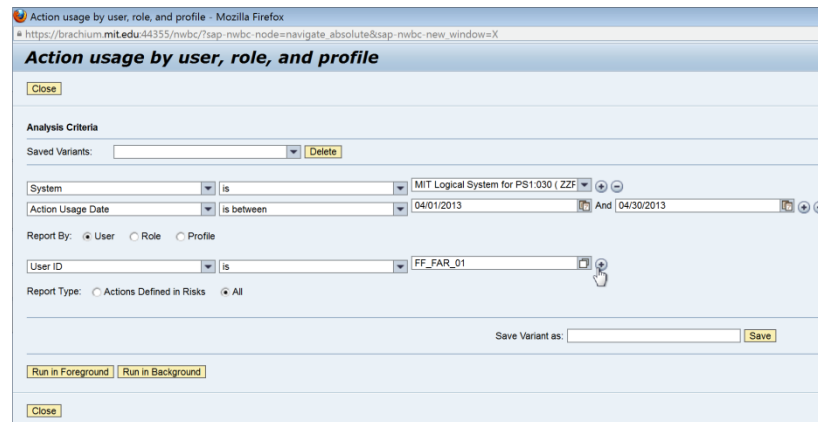
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [] Save

Run in Foreground Run in Background

Close

8B-4 Click on the '+' at the end of the 'User ID' row to add an additional user ID search criterion row for each ID. In this case, one additional row is added; thus, we can analyze for a total of two user IDs.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZF) [] []

Action Usage Date [] is between [] 04/01/2013 [] And [] 04/30/2013 [] []

Report By: ☒ User ☐ Role ☐ Profile

User ID [] is [] FF_AR_01 [] []

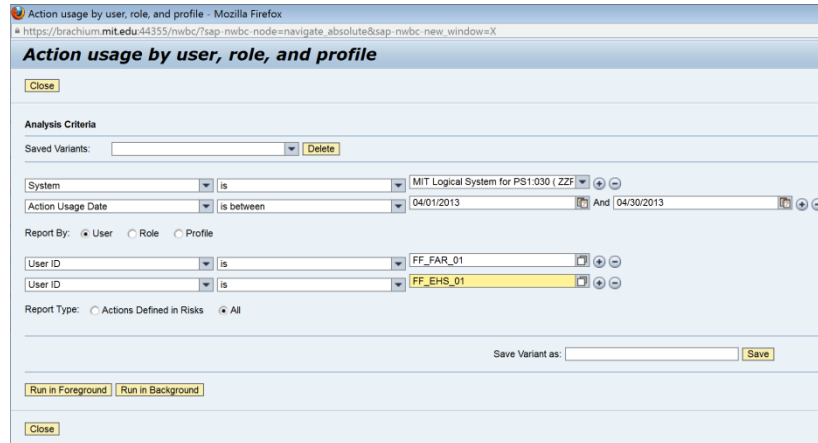
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [] Save

Run in Foreground Run in Background

Close

8B-5 Add the second user ID. In this case, 'FF_EHS_01', an EHS FireFighter ID, was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZF) [] []

Action Usage Date [] is between [] 04/01/2013 [] And [] 04/30/2013 [] []

Report By: ☒ User ☐ Role ☐ Profile

User ID [] is [] FF_FAR_01 [] []

User ID [] is [] FF_EHS_01 [] []

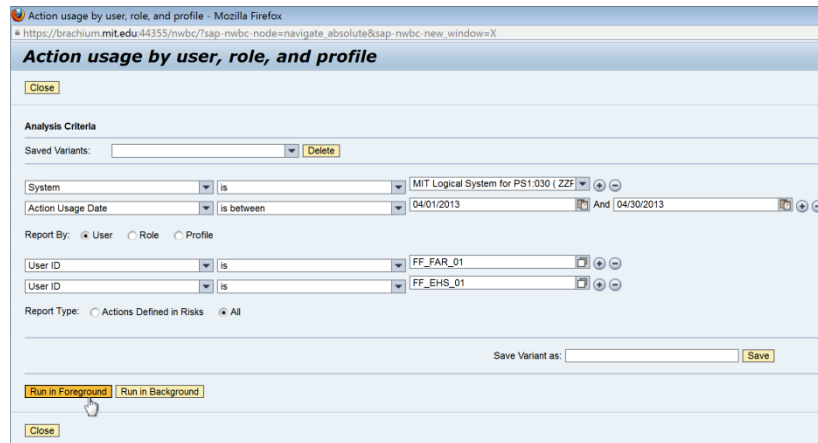
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [] Save

Run in Foreground Run in Background

Close

8B-6 Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZF) [] []

Action Usage Date [] is between [] 04/01/2013 [] And [] 04/30/2013 [] []

Report By: ☒ User ☐ Role ☐ Profile

User ID [] is [] FF_FAR_01 [] []

User ID [] is [] FF_EHS_01 [] []

Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [] Save

Run in Foreground Run in Background

Close

8B-7

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

System: The system in which the role is assigned to the user

Action: SAP transaction

Action Description: SAP transaction name

User: User ID

User Name: User name associated with user ID

Execution Count: Number of times transaction was executed for a specified time period

Last Executed On: Date of last execution of transaction

Action usage by user, role, and profile - Mozilla Firefox
https://brachum.mit.edu:44355/nwbc/?sap-nwbc:node=navigate.absolute&sap-nwbc:node=new_window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format: Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	CBH02	EHS: Edit Work Area	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	6	04/07/2013 19:25:42
ZZPS103001	CBH03	EHS: Display Work Area	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	1	04/07/2013 19:17:01
ZZPS103001	CBH83	EHS: Display Inc./Acc. Log Entry	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	6	04/23/2013 11:21:20
ZZPS103001	SESSION_MANAGER	Session Manager Menu Tree Display	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	1	04/07/2013 19:25:20
ZZPS103001	+C05	MIT Reports	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CADO	Time Sheet: Display Data	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT2	Time Sheet: Maintain Times	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT3	Time Sheet: Display Times	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT7	CATS: Transfer Data to CO	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBHR11	EHS-INT: Create External Person	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBHR21	EHS-INT: Create Authority	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH12	EHS: Edit Risk Assessment	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH13	EHS: Display Risk Assessment	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH42	EHS: Edit Pattern	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH43	EHS: Display Pattern	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH51	EHS: Call Question Catalog	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	

8B-8

Sorting on transaction by clicking on the 'Action' column header will show the users grouped by transaction.

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc:node=navigate_absolute&sap-nwbc-new.window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	CBH02	EHS: Edit Work Area	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	6	04/07/2013 19:25:42
ZZPS103001	CBH03	EHS: Display Work Area	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	1	04/07/2013 19:17:01
ZZPS103001	CBH83	EHS: Display Inc./Acc. Log Entry	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	6	04/23/2013 11:21:20
ZZPS103001	SESSION_MANAGER	Session Manager Menu Tree Display	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	1	04/07/2013 19:25:20
ZZPS103001	+C05	MIT Reports	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CADO	Time Sheet: Display Data	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT2	Time Sheet: Maintain Times	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT3	Time Sheet: Display Times	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT7	CATS: Transfer Data to CO	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBHR11	EHS-INT: Create External Person	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBHR21	EHS-INT: Create Authority	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH12	EHS: Edit Risk Assessment	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH13	EHS: Display Risk Assessment	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH42	EHS: Edit Pattern	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH43	EHS: Display Pattern	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBH51	EHS: Call Question Catalog	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc:node=navigate_absolute&sap-nwbc-new.window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	+C03	ZISP: Call area menu ZISP	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	+C05	MIT Reports	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001		MIT Reports	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	6KEA	Profit Center: Display Changes	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AAVN	Recalculate base insurable value	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AB01	Create asset transactions	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AB02	Change asset document	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AB03	Display Asset Document	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	AB08	Reverse Line Items	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAA	Unplanned depreciation	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAD	Asset Retire. frm Sale w/ Customer	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAD0	Derivation: Initial Screen	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAO	Asset Sale Without Customer	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAP_DOCU_SHOW	Call ABAP Keyword Documentation	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAV	Asset Retirement by Scrapping	FF_FAR_01	Firefighter id FF_FAR_01	0	
ZZPS103001	ABAVN	Asset Retirement by Scrapping	FF_FAR_01	Firefighter id FF_FAR_01	0	

8B-9

Sorting on execution count by clicking on the 'Execution Count' column header twice will show the transactions sorted from highest execution count to lowest.

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new-window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	CBIH02	EHS: Edit Work Area	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	6	04/07/2013 19:25:42
ZZPS103001	CBIH03	EHS: Display Work Area	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	1	04/07/2013 19:17:01
ZZPS103001	CBIH83	EHS: Display Inc./Acc. Log Entry	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	6	04/23/2013 11:21:20
ZZPS103001	SESSION_MANAGER	Session Manager Menu Tree Display	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	1	04/07/2013 19:25:20
ZZPS103001	+C05	MIT Reports	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CADO	Time Sheet: Display Data	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT2	Time Sheet: Maintain Times	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT3	Time Sheet: Display Times	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT7	CATS: Transfer Data to CO	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBHR11	EHS-INT: Create External Person	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBHR21	EHS-INT: Create Authority	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBIH12	EHS: Edit Risk Assessment	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBIH13	EHS: Display Risk Assessment	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBIH42	EHS: Edit Pattern	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBIH43	EHS: Display Pattern	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBIH51	EHS: Call Question Catalog	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new-window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

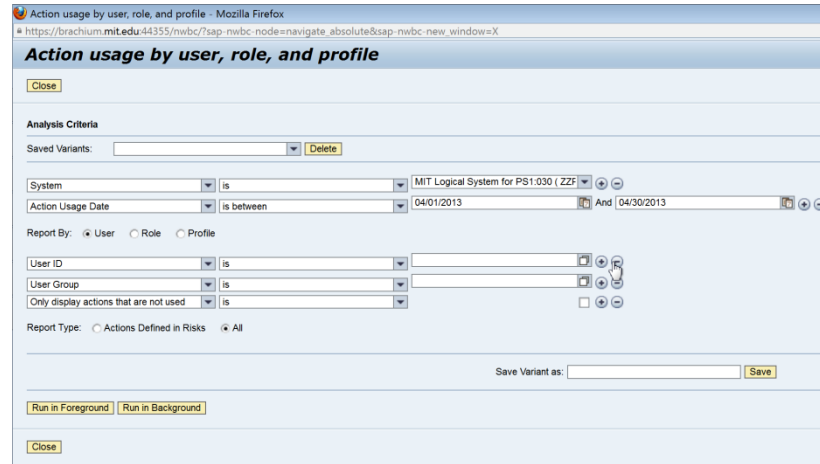
Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	CBIH02	EHS: Edit Work Area	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	6	04/07/2013 19:25:42
ZZPS103001	CBIH83	EHS: Display Inc./Acc. Log Entry	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	6	04/23/2013 11:21:20
ZZPS103001	SM37	Overview of job selection	FF_FAR_01	Firefighter id FF_FAR_01	2	04/26/2013 10:03:08
ZZPS103001	CBIH03	EHS: Display Work Area	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	1	04/07/2013 19:17:01
ZZPS103001	SESSION_MANAGER	Session Manager Menu Tree Display	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	1	04/07/2013 19:25:20
ZZPS103001	FB03	Display Document	FF_FAR_01	Firefighter id FF_FAR_01	1	04/26/2013 10:02:17
ZZPS103001	FBL3N	G/L Account Line Items	FF_FAR_01	Firefighter id FF_FAR_01	1	04/26/2013 10:02:42
ZZPS103001	SU53	Evaluate Authorization Check	FF_FAR_01	Firefighter id FF_FAR_01	1	04/26/2013 10:02:33
ZZPS103001	+C05	MIT Reports	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CADO	Time Sheet: Display Data	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT2	Time Sheet: Maintain Times	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT3	Time Sheet: Display Times	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CAT7	CATS: Transfer Data to CO	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBHR11	EHS-INT: Create External Person	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBHR21	EHS-INT: Create Authority	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	
ZZPS103001	CBIH12	EHS: Edit Risk Assessment	FF_EHS_01	EH&S Firefighter ID FF_EHS_01	0	

8C-1 Analyze by for a single user group. In the 'Report By' section, click on the dial button next to 'User'. Click on the '-' at the end of the 'User ID' row to remove the user ID search criterion row.

NOTE: The report can also be executed for multiple user groups by following steps similar to those outlined for multiple user IDs in steps 8B.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZf) [] []

Action Usage Date [] is between [] 04/01/2013 [] And [] 04/30/2013 [] []

Report By: ☒ User ☐ Role ☐ Profile

User ID [] is [] [] [] []

User Group [] is [] [] [] []

Only display actions that are not used [] is [] [] [] []

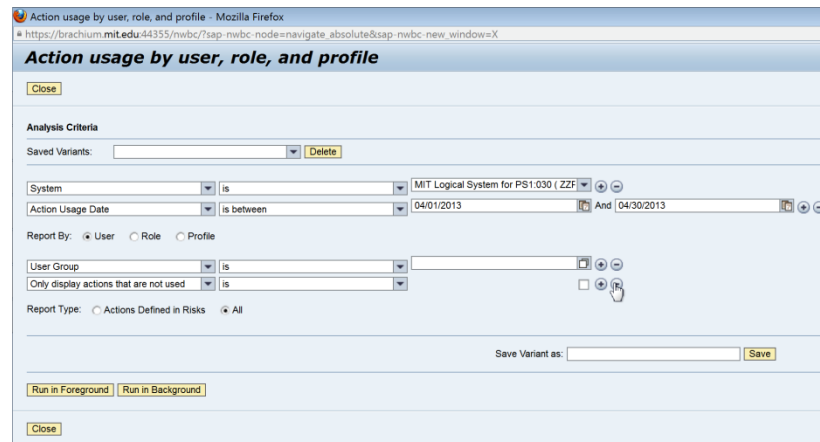
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [] Save

Run in Foreground Run in Background

Close

8C-2 Click on the '-' at the end of the 'Only display actions that are not used' row to remove the option; if necessary, this criterion can be used to limit report information to only transactions that have not been executed (i.e. have 0 execution counts).



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [] Delete

System [] is [] MIT Logical System for PS1:030 (ZZf) [] []

Action Usage Date [] is between [] 04/01/2013 [] And [] 04/30/2013 [] []

Report By: ☒ User ☐ Role ☐ Profile

User Group [] is [] [] [] []

Only display actions that are not used [] is [] [] [] []

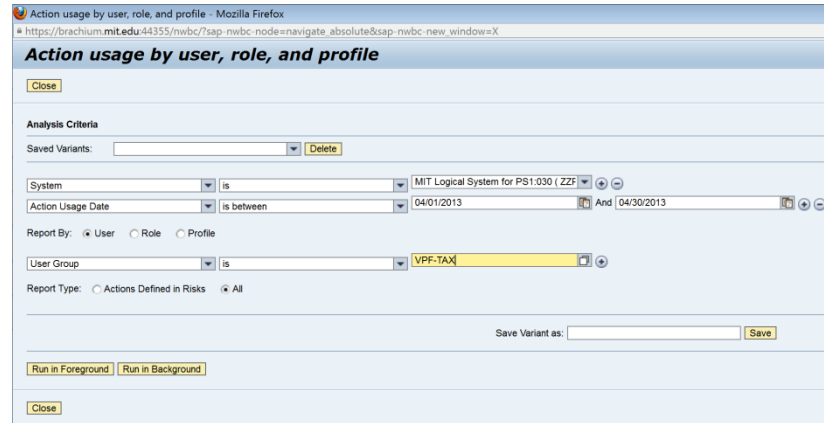
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [] Save

Run in Foreground Run in Background

Close

8C-3 Add the user group name. In this case, 'VPF-TAX', the user group containing all user in VPF who are part of the Tax area, was typed in. The search option can also be used to search for user groups. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [Delete]

System: [MIT Logical System for PS1:030 (ZZF)]

Action Usage Date: [04/01/2013] And [04/30/2013]

Report By: ☒ User ☐ Role ☐ Profile

User Group: [VPF-TAX]

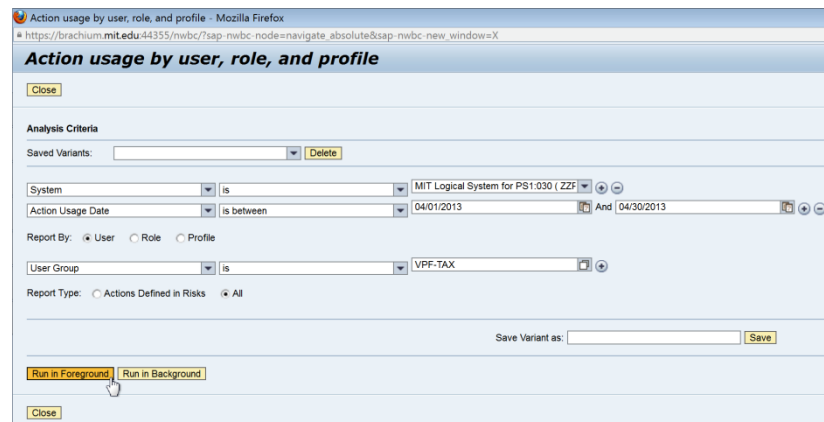
Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [Save]

Run in Foreground Run in Background

Close

8C-4 Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [Delete]

System: [MIT Logical System for PS1:030 (ZZF)]

Action Usage Date: [04/01/2013] And [04/30/2013]

Report By: ☒ User ☐ Role ☐ Profile

User Group: [VPF-TAX]

Report Type: ☐ Actions Defined in Risks ☒ All

Save Variant as: [Save]

Run in Foreground Run in Background

Close

8C-5

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

System: The system in which the role is assigned to the user

Action: SAP transaction

Action Description: SAP transaction name

User: User ID

User Name: User name associated with user ID

Execution Count: Number of times transaction was executed for a specified time period

Last Executed On: Date of last execution of transaction

Action usage by user, role, and profile - Mozilla Firefox

https://brachum.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new-window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format: Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	FBV2	Change Parked Document	LCTRAN	Long Tran	2	04/24/2013 09:43:02
ZZPS103001	ZITSDELETE	ITS: Delete Sessions	LCTRAN	Long Tran	1	04/24/2013 09:41:40
ZZPS103001	CJ03	Display Work Breakdown Structure	LCTRAN	Long Tran	0	
ZZPS103001	CJ31	Display Project Original Budget	LCTRAN	Long Tran	0	
ZZPS103001	FB03	Display Document	LCTRAN	Long Tran	0	
ZZPS103001	FD03	Display Customer (Accounting)	LCTRAN	Long Tran	0	
ZZPS103001	FD10	Customer Account Balance	LCTRAN	Long Tran	0	
ZZPS103001	FD10N	Customer Balance Display	LCTRAN	Long Tran	0	
ZZPS103001	FM2M	Index of Funds Centers	LCTRAN	Long Tran	0	
ZZPS103001	FM3M	Index of Commitment Items	LCTRAN	Long Tran	0	
ZZPS103001	FM5M	Index of Funds	LCTRAN	Long Tran	0	
ZZPS103001	FS03	Display Master Record	LCTRAN	Long Tran	0	
ZZPS103001	KA03	Display Cost Element	LCTRAN	Long Tran	0	
ZZPS103001	KAH3	Display cost element group	LCTRAN	Long Tran	0	
ZZPS103001	KCH3	Display profit center hierarchy	LCTRAN	Long Tran	0	
ZZPS103001	KDH3	Display Account Group	LCTRAN	Long Tran	0	

8C-6

Sorting on transaction by clicking on the 'Action' column header will show the users grouped by transaction.

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc:node=navigate.absolute&sap-nwbc:new.window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format: Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	FBV2	Change Parked Document	LCTRAN	Long Tran	2	04/24/2013 09:43:02
ZZPS103001	ZITSDELETE	ITS: Delete Sessions	LCTRAN	Long Tran	1	04/24/2013 09:41:40
ZZPS103001	CJ03	Display Work Breakdown Structure	LCTRAN	Long Tran	0	
ZZPS103001	CJ31	Display Project Original Budget	LCTRAN	Long Tran	0	
ZZPS103001	FB03	Display Document	LCTRAN	Long Tran	0	
ZZPS103001	FD03	Display Customer (Accounting)	LCTRAN	Long Tran	0	
ZZPS103001	FD10	Customer Account Balance	LCTRAN	Long Tran	0	
ZZPS103001	FD10N	Customer Balance Display	LCTRAN	Long Tran	0	
ZZPS103001	FM2M	Index of Funds Centers	LCTRAN	Long Tran	0	
ZZPS103001	FM3M	Index of Commitment Items	LCTRAN	Long Tran	0	
ZZPS103001	FM5M	Index of Funds	LCTRAN	Long Tran	0	
ZZPS103001	FS03	Display Master Record	LCTRAN	Long Tran	0	
ZZPS103001	KA03	Display Cost Element	LCTRAN	Long Tran	0	
ZZPS103001	KAH3	Display cost element group	LCTRAN	Long Tran	0	
ZZPS103001	KCH3	Display profit center hierarchy	LCTRAN	Long Tran	0	
ZZPS103001	KDH3	Display Account Group	LCTRAN	Long Tran	0	

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc:node=navigate.absolute&sap-nwbc:new.window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format: Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	CJ03	Display Work Breakdown Structure	LCTRAN	Long Tran	0	
ZZPS103001		Display Work Breakdown Structure	RCBERGER	Rebecca Berger	0	
ZZPS103001		Display Work Breakdown Structure	RSOOHOO	Robert Soohoo	0	
ZZPS103001		Display Work Breakdown Structure	VWU	Victoria Wu	0	
ZZPS103001	CJ31	Display Project Original Budget	LCTRAN	Long Tran	0	
ZZPS103001		Display Project Original Budget	RCBERGER	Rebecca Berger	0	
ZZPS103001		Display Project Original Budget	RSOOHOO	Robert Soohoo	0	
ZZPS103001		Display Project Original Budget	VWU	Victoria Wu	0	
ZZPS103001	F-65	Preliminary Posting	LCTRAN	Long Tran	0	
ZZPS103001		Preliminary Posting	RCBERGER	Rebecca Berger	2	04/26/2013 08:59:35
ZZPS103001		Preliminary Posting	RSOOHOO	Robert Soohoo	2	04/25/2013 18:37:39
ZZPS103001		Preliminary Posting	VWU	Victoria Wu	4	04/17/2013 10:15:00
ZZPS103001	FB03	Display Document	LCTRAN	Long Tran	0	
ZZPS103001		Display Document	RCBERGER	Rebecca Berger	0	
ZZPS103001		Display Document	RSOOHOO	Robert Soohoo	0	
ZZPS103001		Display Document	VWU	Victoria Wu	0	

8C-7

Sorting on execution count by clicking on the 'Execution Count' column header twice will show the transactions sorted from highest execution count to lowest.

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc:node=navigate_absolute&sap-nwbc:node=new_window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format: Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	FBV2	Change Parked Document	LCTRAN	Long Tran	2	04/24/2013 09:43:02
ZZPS103001	ZITSDELETE	ITS: Delete Sessions	LCTRAN	Long Tran	1	04/24/2013 09:41:40
ZZPS103001	CJ03	Display Work Breakdown Structure	LCTRAN	Long Tran	0	
ZZPS103001	CJ31	Display Project Original Budget	LCTRAN	Long Tran	0	
ZZPS103001	FB03	Display Document	LCTRAN	Long Tran	0	
ZZPS103001	FD03	Display Customer (Accounting)	LCTRAN	Long Tran	0	
ZZPS103001	FD10	Customer Account Balance	LCTRAN	Long Tran	0	
ZZPS103001	FD10N	Customer Balance Display	LCTRAN	Long Tran	0	
ZZPS103001	FM2M	Index of Funds Centers	LCTRAN	Long Tran	0	
ZZPS103001	FM3M	Index of Commitment Items	LCTRAN	Long Tran	0	
ZZPS103001	FM5M	Index of Funds	LCTRAN	Long Tran	0	
ZZPS103001	FS03	Display Master Record	LCTRAN	Long Tran	0	
ZZPS103001	KA03	Display Cost Element	LCTRAN	Long Tran	0	
ZZPS103001	KAH3	Display cost element group	LCTRAN	Long Tran	0	
ZZPS103001	KCH3	Display profit center hierarchy	LCTRAN	Long Tran	0	
ZZPS103001	KDH3	Display Account Group	LCTRAN	Long Tran	0	

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc:node=navigate_absolute&sap-nwbc:node=new_window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

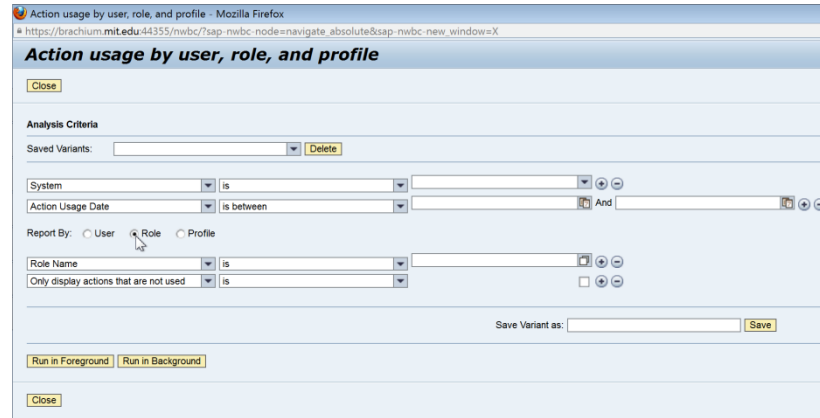
Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Format: Summary Filter Settings

System	Action	Action Description	User	User Name	Execution Count	Last Executed on
ZZPS103001	ZSTM	Statement	RSOOHOO	Robert Soohoo	16	04/23/2013 18:45:53
ZZPS103001	SESSION_MANAGER	Session Manager Menu Tree Display	RCBERGER	Rebecca Berger	5	04/22/2013 11:32:54
ZZPS103001	ZDTR	Detail Transaction Report	RCBERGER	Rebecca Berger	5	04/22/2013 11:34:03
ZZPS103001	FS10N	Balance Display	RSOOHOO	Robert Soohoo	5	04/23/2013 17:55:16
ZZPS103001	KA03	Display Cost Element	RCBERGER	Rebecca Berger	4	04/18/2013 14:04:52
ZZPS103001	FBV1	Park Document	RSOOHOO	Robert Soohoo	4	04/24/2013 09:32:56
ZZPS103001	KA03	Display Cost Element	RSOOHOO	Robert Soohoo	4	04/20/2013 16:27:11
ZZPS103001	SESSION_MANAGER	Session Manager Menu Tree Display	RSOOHOO	Robert Soohoo	4	04/23/2013 17:55:19
ZZPS103001	F-65	Preliminary Posting	VWU	Victoria Wu	4	04/17/2013 10:15:00
ZZPS103001	FBV2	Change Parked Document	LCTRAN	Long Tran	2	04/24/2013 09:43:02
ZZPS103001	F-65	Preliminary Posting	RCBERGER	Rebecca Berger	2	04/26/2013 08:59:35
ZZPS103001	F-65	Preliminary Posting	RSOOHOO	Robert Soohoo	2	04/25/2013 18:37:39
ZZPS103001	FBV2	Change Parked Document	RSOOHOO	Robert Soohoo	2	04/24/2013 09:41:00
ZZPS103001	ZITSDELETE	ITS: Delete Sessions	LCTRAN	Long Tran	1	04/24/2013 09:41:40
ZZPS103001	FBV1	Park Document	RCBERGER	Rebecca Berger	1	04/23/2013 16:35:22
ZZPS103001	FS10N	Balance Display	RCBERGER	Rebecca Berger	1	04/04/2013 14:50:35

8D-1 Analyze by for a single role.
In the 'Report By' section,
click on the dial button next
to 'Role'.

NOTE: The report can also
be executed for multiple
roles by following steps
similar to those outlined for
multiple user IDs in steps
8B.



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [Dropdown] Delete

System [Dropdown] is [Dropdown] [Dropdown] [Dropdown]

Action Usage Date [Dropdown] is between [Dropdown] And [Dropdown] [Dropdown] [Dropdown]

Report By: ☐ User ☒ Role ☐ Profile

Role Name [Dropdown] is [Dropdown] [Dropdown] [Dropdown]

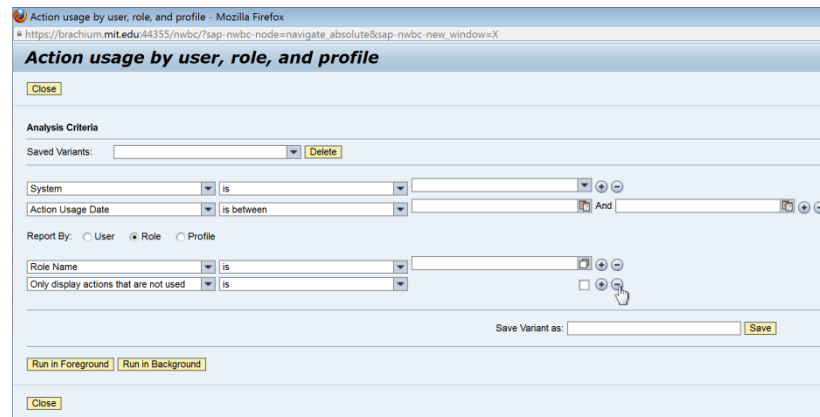
Only display actions that are not used [Dropdown] is [Dropdown] [Dropdown] [Dropdown]

Save Variant as: [Dropdown] Save

Run in Foreground Run in Background

Close

8D-2 Click on the '-' at the end of
the 'Only display actions
that are not used' row to
remove the option; if
necessary, this criterion can
be used to limit report
information to only
transactions that have not
been executed (i.e. have 0
execution counts).



Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Close

Analysis Criteria

Saved Variants: [Dropdown] Delete

System [Dropdown] is [Dropdown] [Dropdown] [Dropdown]

Action Usage Date [Dropdown] is between [Dropdown] And [Dropdown] [Dropdown] [Dropdown]

Report By: ☐ User ☒ Role ☐ Profile

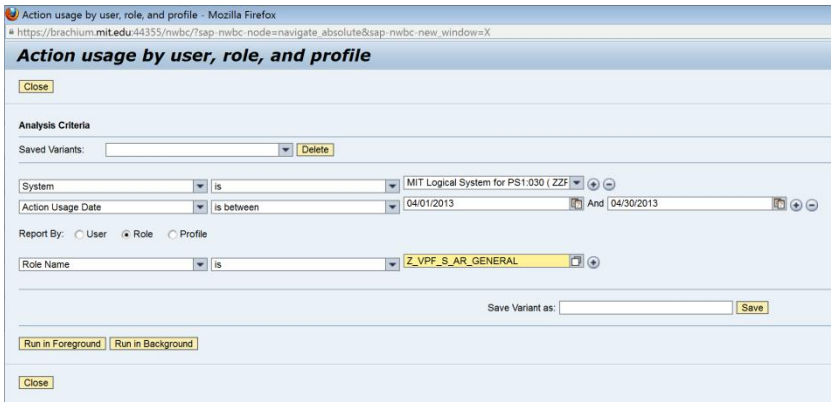
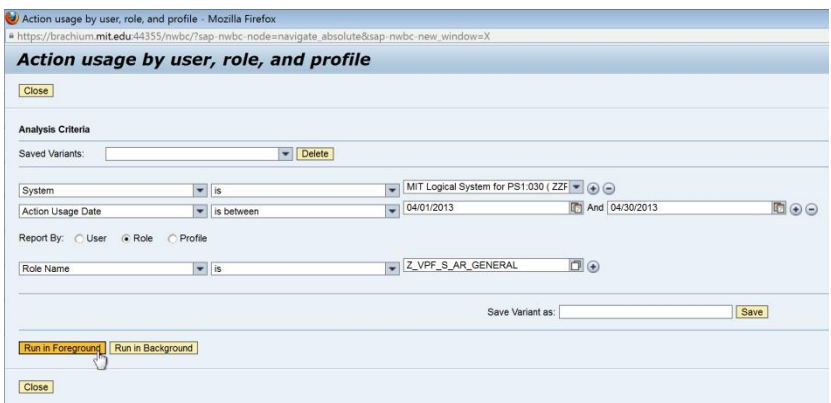
Role Name [Dropdown] is [Dropdown] [Dropdown] [Dropdown]

Only display actions that are not used [Dropdown] is [Dropdown] [Dropdown] [Dropdown]

Save Variant as: [Dropdown] Save

Run in Foreground Run in Background

Close

8D-3	<p>Add the role name. In this case, 'Z_VPF_S_AR_GENERAL' was typed in. The search option can also be used to search for a role. Please refer to the 'Search for Input Values' reference document (R3) for further information.</p>	
8D-4	<p>Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.</p>	

8D-5 Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

System: The system in which the role is assigned to the user

Action: SAP transaction

Action Description: SAP transaction name

Role Name: SAP role name

Role Description: Business name for SAP role

Execution Count: Number of times transaction was executed for a specified time period

Action usage by user, role, and profile - Mozilla Firefox

https://brachum.mit.edu:44355/mwbc/?sap-nwbc-node=navigate.absolute&sap-nwbc-new-window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

System	Action	Action Description	Role Name	Role Description	Execution Count
ZZPS103001	F150	Dunning Run	Z_VPF_S_AR_GENERAL	VPF AR General	5
ZZPS103001	FB04	Document Changes	Z_VPF_S_AR_GENERAL	VPF AR General	1
ZZPS103001	FBL5N	Customer Line Items	Z_VPF_S_AR_GENERAL	VPF AR General	1
ZZPS103001	FD04	Customer Changes (Accounting)	Z_VPF_S_AR_GENERAL	VPF AR General	5
ZZPS103001	FS10N	Balance Display	Z_VPF_S_AR_GENERAL	VPF AR General	177
ZZPS103001	SM37	Overview of job selection	Z_VPF_S_AR_GENERAL	VPF AR General	3
ZZPS103001	SU3	Maintain Users Own Data	Z_VPF_S_AR_GENERAL	VPF AR General	3
ZZPS103001	SU53	Evaluate Authorization Check	Z_VPF_S_AR_GENERAL	VPF AR General	2
ZZPS103001	ZAR1	Monthly Statements	Z_VPF_S_AR_GENERAL	VPF AR General	148
ZZPS103001	ZAR2	AR: Aging Report	Z_VPF_S_AR_GENERAL	VPF AR General	158
ZZPS103001	ZAS2	AR & SR: Cust. open items & 0 bal.	Z_VPF_S_AR_GENERAL	VPF AR General	6
ZZPS103001	ZC13	Display Cashier's Document	Z_VPF_S_AR_GENERAL	VPF AR General	22
ZZPS103001	ZC60	List of checks	Z_VPF_S_AR_GENERAL	VPF AR General	43
ZZPS103001	ZC03	Display Cost Object	Z_VPF_S_AR_GENERAL	VPF AR General	28
ZZPS103001	ZFBL5N	MIT Customer Line Items	Z_VPF_S_AR_GENERAL	VPF AR General	540
ZZPS103001	ZMITID	Maintain the ZMITID table	Z_VPF_S_AR_GENERAL	VPF AR General	12

8D-6 Sorting on execution count by clicking on the 'Execution Count' column header twice will show the transactions sorted from highest execution count to lowest.

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

System	Action	Action Description	Role Name	Role Description	Execution Count
ZZPS103001	F150	Dunning Run	Z_VPF_S_AR_GENERAL	VPF AR General	5
ZZPS103001	FB04	Document Changes	Z_VPF_S_AR_GENERAL	VPF AR General	1
ZZPS103001	FBL5N	Customer Line Items	Z_VPF_S_AR_GENERAL	VPF AR General	1
ZZPS103001	FD04	Customer Changes (Accounting)	Z_VPF_S_AR_GENERAL	VPF AR General	5
ZZPS103001	FS10N	Balance Display	Z_VPF_S_AR_GENERAL	VPF AR General	177
ZZPS103001	SM37	Overview of job selection	Z_VPF_S_AR_GENERAL	VPF AR General	3
ZZPS103001	SU3	Maintain Users Own Data	Z_VPF_S_AR_GENERAL	VPF AR General	3
ZZPS103001	SU53	Evaluate Authorization Check	Z_VPF_S_AR_GENERAL	VPF AR General	2
ZZPS103001	ZAR1	Monthly Statements	Z_VPF_S_AR_GENERAL	VPF AR General	148
ZZPS103001	ZAR2	AR: Aging Report	Z_VPF_S_AR_GENERAL	VPF AR General	158
ZZPS103001	ZAS2	AR & SR: Cust. open items & 0 bal.	Z_VPF_S_AR_GENERAL	VPF AR General	6
ZZPS103001	ZC13	Display Cashier's Document	Z_VPF_S_AR_GENERAL	VPF AR General	22
ZZPS103001	ZC60	List of checks	Z_VPF_S_AR_GENERAL	VPF AR General	43
ZZPS103001	ZCO3	Display Cost Object	Z_VPF_S_AR_GENERAL	VPF AR General	28
ZZPS103001	ZFBL5N	MIT Customer Line Items	Z_VPF_S_AR_GENERAL	VPF AR General	540
ZZPS103001	ZMITID	Maintain the ZMITID table	Z_VPF_S_AR_GENERAL	VPF AR General	12

Action usage by user, role, and profile - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Action usage by user, role, and profile

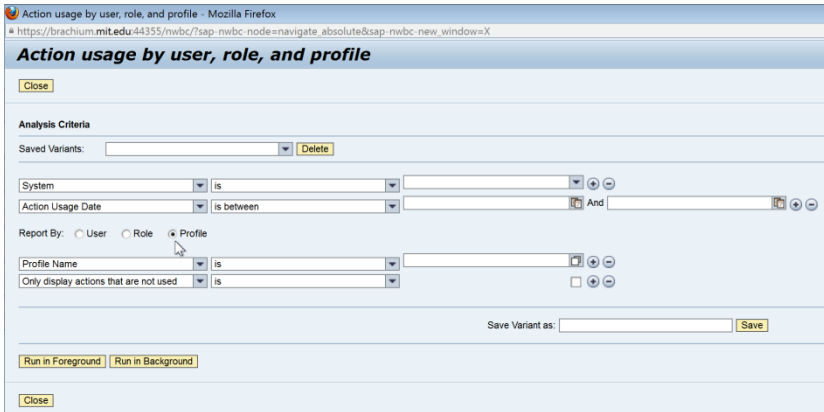
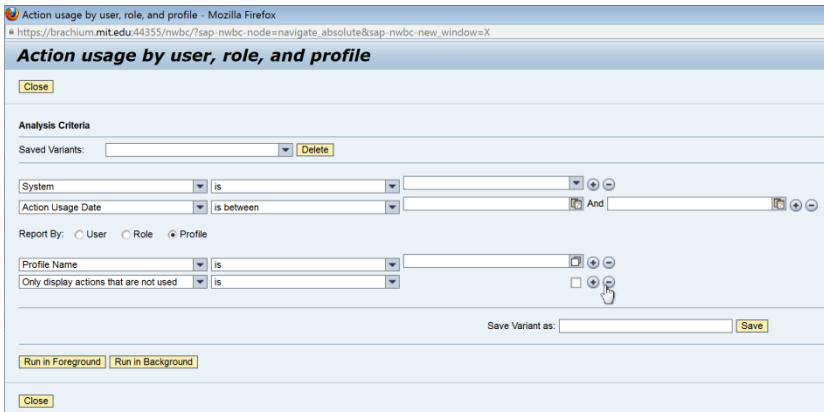
Analysis Criteria

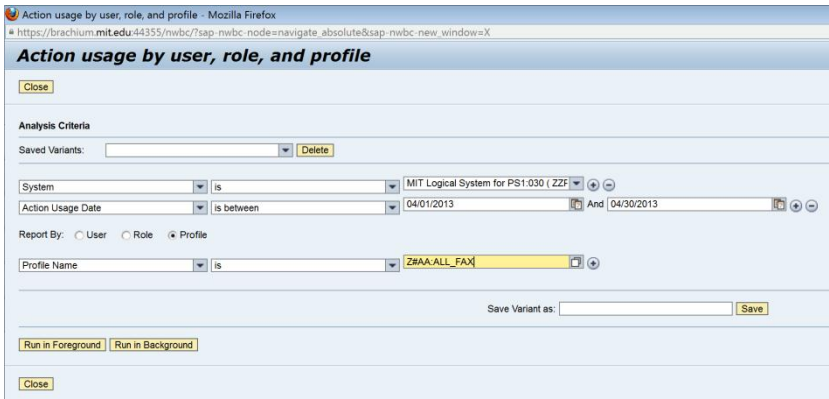
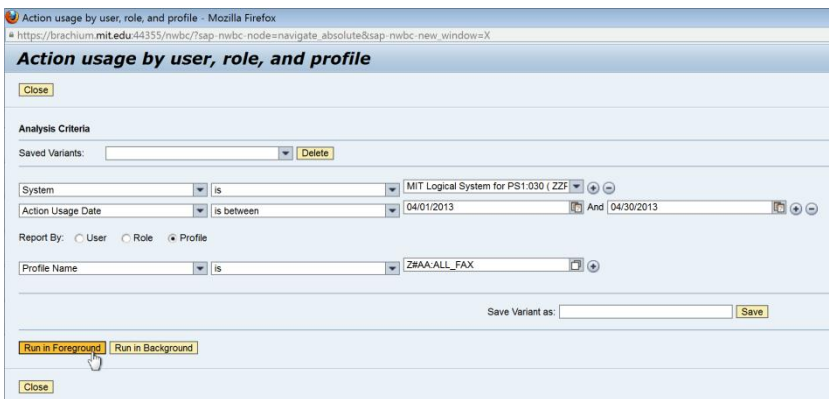
Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version Export Filter Settings

System	Action	Action Description	Role Name	Role Description	Execution Count
ZZPS103001	ZFBL5N	MIT Customer Line Items	Z_VPF_S_AR_GENERAL	VPF AR General	540
ZZPS103001	FS10N	Balance Display	Z_VPF_S_AR_GENERAL	VPF AR General	177
ZZPS103001	ZAR2	AR: Aging Report	Z_VPF_S_AR_GENERAL	VPF AR General	158
ZZPS103001	ZAR1	Monthly Statements	Z_VPF_S_AR_GENERAL	VPF AR General	148
ZZPS103001	ZC60	List of checks	Z_VPF_S_AR_GENERAL	VPF AR General	43
ZZPS103001	ZCO3	Display Cost Object	Z_VPF_S_AR_GENERAL	VPF AR General	28
ZZPS103001	ZC13	Display Cashier's Document	Z_VPF_S_AR_GENERAL	VPF AR General	22
ZZPS103001	ZMITID	Maintain the ZMITID table	Z_VPF_S_AR_GENERAL	VPF AR General	12
ZZPS103001	ZAS2	AR & SR: Cust. open items & 0 bal.	Z_VPF_S_AR_GENERAL	VPF AR General	6
ZZPS103001	F150	Dunning Run	Z_VPF_S_AR_GENERAL	VPF AR General	5
ZZPS103001	FD04	Customer Changes (Accounting)	Z_VPF_S_AR_GENERAL	VPF AR General	5
ZZPS103001	SM37	Overview of job selection	Z_VPF_S_AR_GENERAL	VPF AR General	3
ZZPS103001	SU3	Maintain Users Own Data	Z_VPF_S_AR_GENERAL	VPF AR General	3
ZZPS103001	SU53	Evaluate Authorization Check	Z_VPF_S_AR_GENERAL	VPF AR General	2
ZZPS103001	FB04	Document Changes	Z_VPF_S_AR_GENERAL	VPF AR General	1
ZZPS103001	FBL5N	Customer Line Items	Z_VPF_S_AR_GENERAL	VPF AR General	1

<p>8E-1</p>	<p>Analyze by for a single profile. In the 'Report By' section, click on the dial button next to 'Role'.</p> <p>NOTE: The report can also be executed for multiple profiles by following steps similar to those outlined for multiple user IDs in steps 8B.</p>	
<p>8E-2</p>	<p>Click on the '-' at the end of the 'Only display actions that are not used' row to remove the option; if necessary, this criterion can be used to limit report information to only transactions that have not been executed (i.e. have 0 execution counts).</p>	

8E-3	<p>Add the profile name. In this case, 'Z#AA:ALL_FAX' was typed in. The search option can also be used to search for a role. Please refer to the 'Search for Input Values' reference document (R3) for further information.</p>	 <p>The screenshot shows a web application titled 'Action usage by user, role, and profile'. It has a 'Close' button at the top left. Below the title bar, there's a section for 'Analysis Criteria'. It includes a 'Saved Variants' field with a 'Delete' button. The 'System' dropdown is set to 'MIT Logical System for PS1:030 (ZZF)'. The 'Action Usage Date' is set to 'is between' with dates '04/01/2013' and '04/30/2013'. The 'Report By' section has radio buttons for 'User', 'Role', and 'Profile', with 'Profile' selected. The 'Profile Name' dropdown is set to 'Z#AA:ALL_FAX'. There's a 'Save Variant as' field with a 'Save' button. At the bottom, there are two buttons: 'Run in Foreground' (highlighted) and 'Run in Background'. A 'Close' button is at the bottom left.</p>
8E-4	<p>Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.</p>	 <p>This screenshot is identical to the one above, showing the same web application interface. However, in this instance, the 'Run in Background' button is highlighted with a mouse cursor, indicating the next step in the process.</p>

8E-5

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

System: The system in which the role is assigned to the user

Action: SAP transaction

Action Description: SAP transaction name

Profile: SAP profile name

Profile Description: Business
name for SAP profile

Execution Count: Number of times transaction was executed for a specified time period

NOTE: This report is not as efficient for profiles and may need to be executed as a background job for any profile analysis.

[illegible]

Job Aid 11 Mitigation Control Report**USE**

This report can be used to find information on the mitigating controls defined in GRC.

INFORMATION



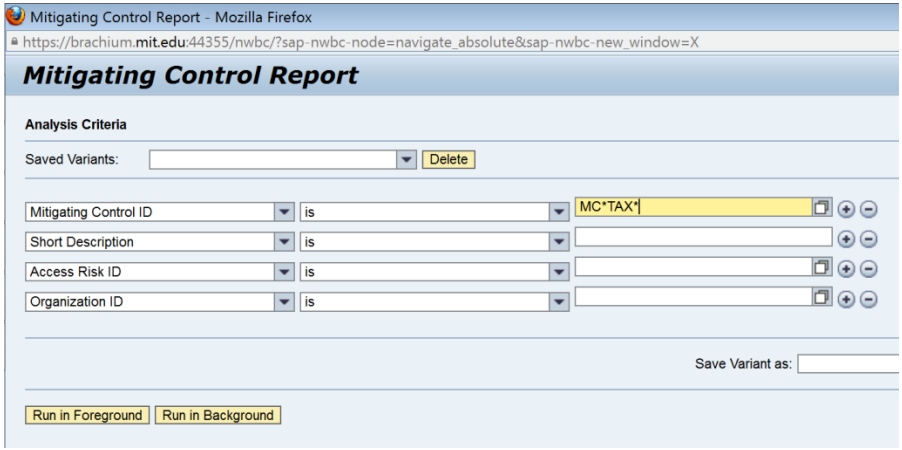
Approvers, monitors and risks mitigated by a mitigating control as defined in the system.

RELATED PROCESSES

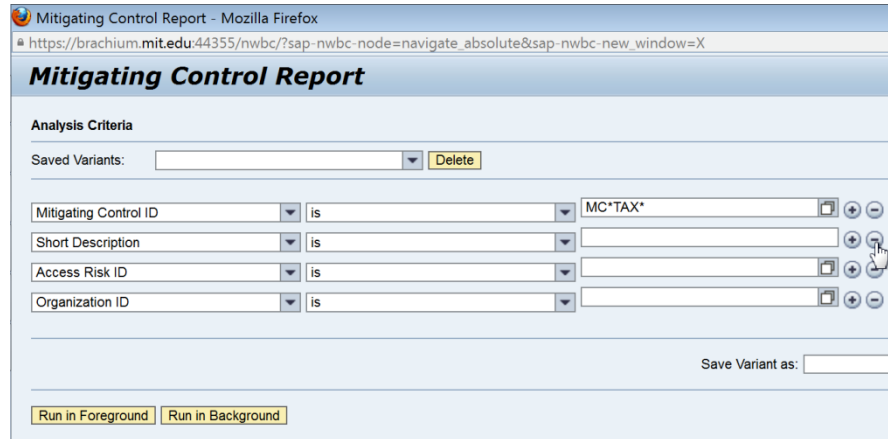
- Process 2: Mitigation Analysis

SPECIFIC SCENARIOS

- N/A

Step	Description	Screenshot
1	Navigate to the 'Reports and Analytics' tab.	 <p>Reports and Analytics</p>
2	Click on the 'Mitigation Control Report' report located in the 'Access Risk Analysis Reports' section.	
3	Add the Mitigating Control ID. In this case, 'MC*TAX*' was typed in to include all Mitigating Controls for the VPF-TAX area. The search option can also be used to search for a specific ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.	

4 Click on the '-' at the end of the 'Short Description' row to remove the row for that search criterion; this criterion can be used with wild cards (*) for scenarios where information is only required for Mitigating Controls relating to some specific criteria noted in the short description.



Mitigating Control Report - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Mitigating Control Report

Analysis Criteria

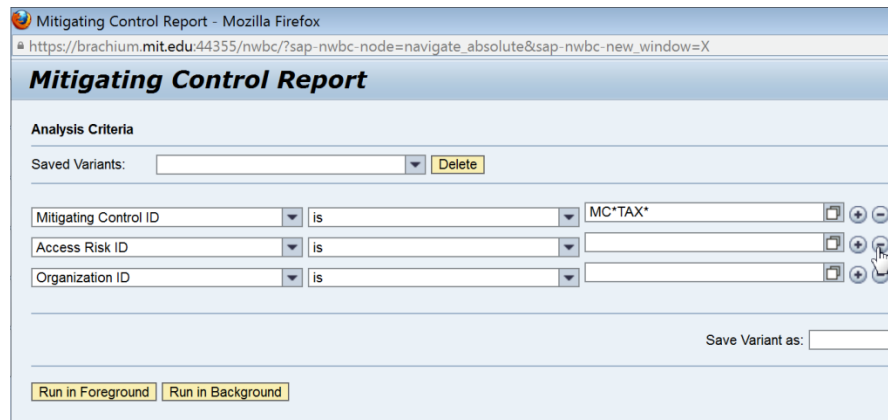
Saved Variants: Delete

Mitigating Control ID	is	MC*TAX*	+ -
Short Description	is		+ -
Access Risk ID	is		+ -
Organization ID	is		+ -

Save Variant as:

Run in Foreground Run in Background

5 Click on the '-' at the end of the 'Access Risk ID' row to remove the row for the Access Risk search criterion; this criterion can be used for scenarios where information is only required for Mitigating Controls relating to specific Access Risks.



Mitigating Control Report - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Mitigating Control Report

Analysis Criteria

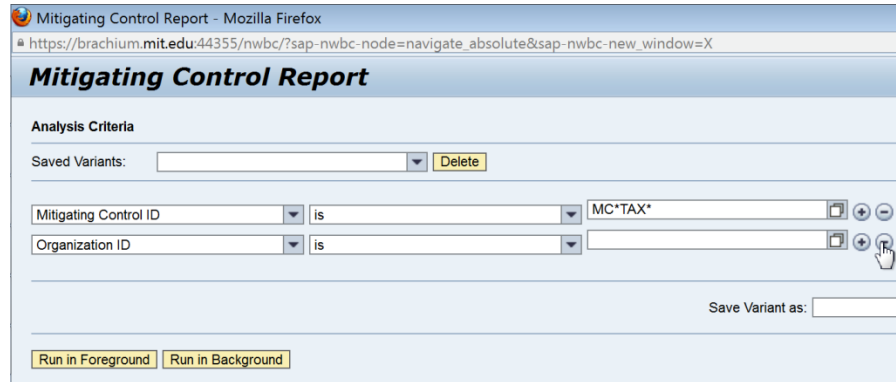
Saved Variants: Delete

Mitigating Control ID	is	MC*TAX*	+ -
Access Risk ID	is		+ -
Organization ID	is		+ -

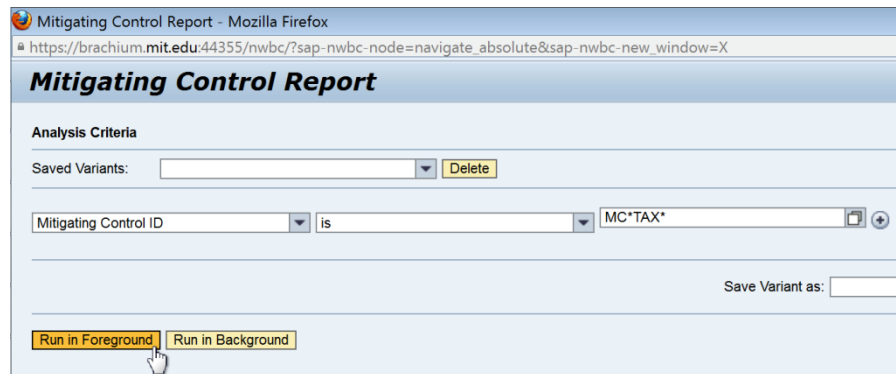
Save Variant as:

Run in Foreground Run in Background

6 Click on the '-' at the end of the 'Organization ID' row to remove the row for the Organization search criterion; this criterion can be used for scenarios where information is only required for Mitigating Controls mapped to a certain Organization in the Organizational Structure defined in GRC. At this initial phase, this criterion will likely not be of use to MIT.



7 Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



8

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Control ID: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Control Description: Business description of the Mitigating Control

Org Unit ID: Numerical code of Org Unit defined in GRC

OrgUnit Description: Business name of Org Unit

Approver: The user ID of the Approver responsible for the Mitigating Control

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Name: Name tied to the user ID of the Monitor

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Access Risk Description: Business description of the Access Risk

System: The system in which the role is assigned to the user

Access Risk Level: The risk level defined for each Access Risk in the standard rule set

Mitigating Control Report - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Multiple Selection

Analysis Criteria

Analysis Results

Result Set: Result Set1 Go Previous Next Export Result Sets

View: [Standard View] Display As: Table Print Version

Control ID	Control Description	Org Unit ID	OrgUnit Description	Approver	Monitor
MC_TAX_001	Cannot Park FI Doc & Use FBV0 to Approve	50000001	GRC MIT ARA-01		
MC_TAX_001	Cannot Park FI Doc & Use FBV0 to Approve	50000001	GRC MIT ARA-01	STEWARTB	STEWARTB

Name	Access Risk ID	Access Risk Description
	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.
RTB Basil Stewart		

Filter Settings

Access Rule ID	Access Risk Level	System	Action	SOD Object	Email	Frequency
en cover it up using journal entries.	Medium					0
						0

Job Aid 12 User Level**USE**

This report can be used analyze for risk violations at the user level. The report can also be used to find the mitigating controls assigned to users, as well as any invalid mitigating control assignments.

INFORMATION



SODs, critical actions or permissions and critical roles or profiles.

RELATED PROCESSES

- Process 1: New or Amended Roles
- Process 2: Mitigation Analysis

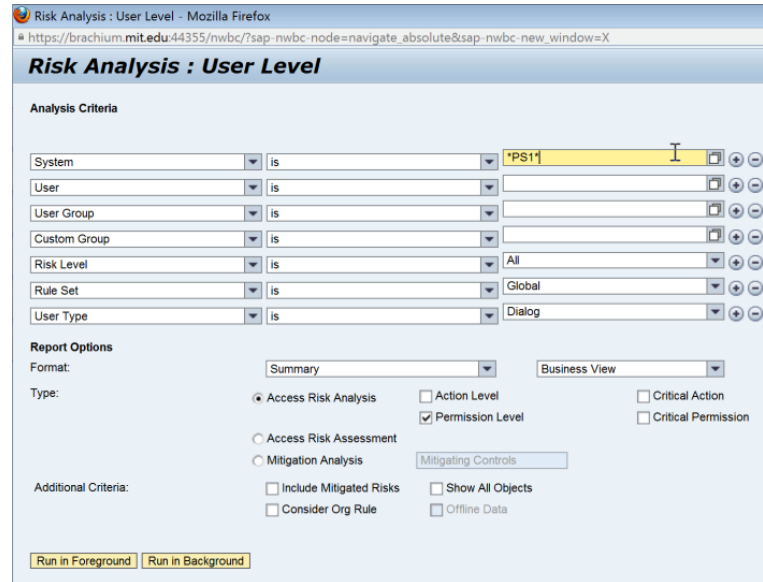
SPECIFIC SCENARIOS

- Step 10A: Analyze for SODs based on User ID.
- Step 10B: Analyze for SODs based on User Group.
- Step 10C: Analyze for SODs based on Custom Group.
- Step 10D: Carry out an Access Risk Assessment by User ID.
- Step 10E: Carry out an analysis of Mitigating Controls by User ID.

Step	Description	Screenshot
1	Navigate to the 'Access Management' tab.	 <p>Access Management</p>
2	Click on the 'User Level' report located in the 'Access Risk Analysis' section.	 <p>Access Risk Analysis</p> <p>Analyze systems for access risks across user, role, HR object and organization levels</p> <p>Quick Links</p> <ul style="list-style-type: none"> User Level User Level Simulation Role Level Role Level Simulation Profile Level Profile Level Simulation HR Objects HR Objects Simulation

3

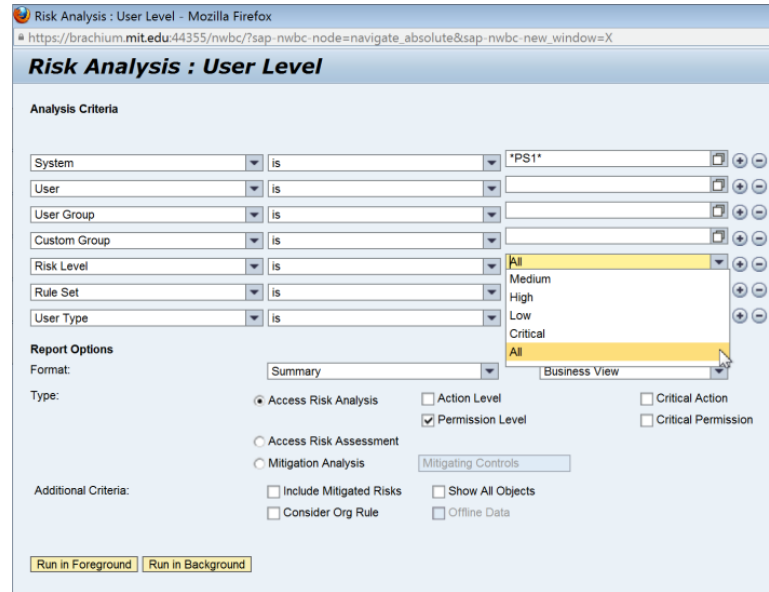
In the 'Analysis Criteria' section, select the System for which information is required. Since the desired selection is PS1 (Production), '*PS1*' was typed in as the system. The search option can also be used to search for the correct system. Please refer to the 'Search for Input Values' reference document (R3) for further information.



The screenshot shows the 'Risk Analysis : User Level' web application interface. The browser title is 'Risk Analysis : User Level - Mozilla Firefox' and the URL is 'https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X'. The page has a blue header with the title 'Risk Analysis : User Level'. Below the header is the 'Analysis Criteria' section, which contains several dropdown menus and text input fields. The 'System' dropdown is set to 'is' and the text input field contains '*PS1*'. Other dropdowns include 'User', 'User Group', 'Custom Group', 'Risk Level', 'Rule Set', and 'User Type'. Below the 'Analysis Criteria' section is the 'Report Options' section, which includes a 'Format' dropdown set to 'Summary', a 'Business View' dropdown, and several checkboxes for 'Access Risk Analysis', 'Access Risk Assessment', 'Mitigation Analysis', 'Action Level', 'Permission Level', 'Critical Action', 'Critical Permission', 'Include Mitigated Risks', 'Show All Objects', 'Consider Org Rule', and 'Offline Data'. At the bottom of the page are two buttons: 'Run in Foreground' and 'Run in Background'.

4

In the 'Analysis Criteria' section, select the 'Risk Level' drop down and select the risk level for which information is required. In this case, 'All' was selected so that the report evaluates for all risk levels.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is

User Group is

Custom Group is

Risk Level is All

Rule Set is

User Type is

Report Options

Format: Summary Business View

Type:

☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission

☐ Mitigation Analysis

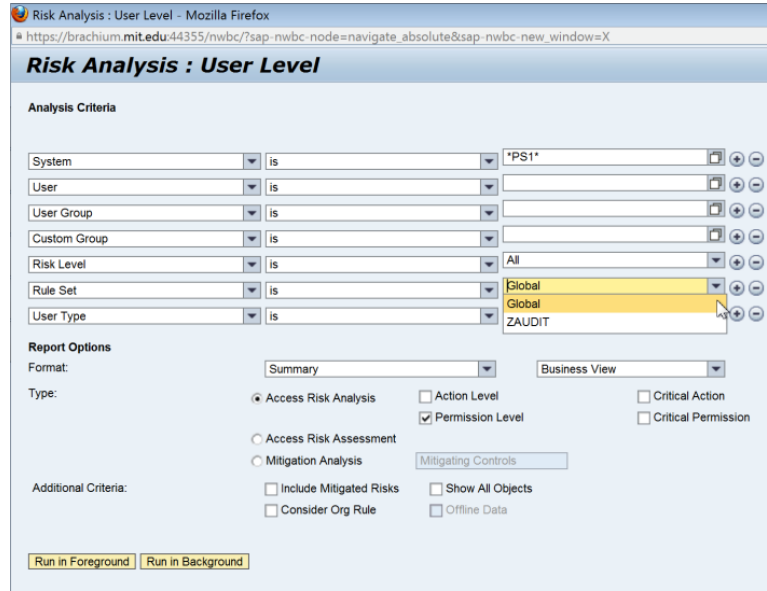
Additional Criteria:

☐ Include Mitigated Risks ☐ Show All Objects

☐ Consider Org Rule ☐ Offline Data

5

In the 'Analysis Criteria' section, select the 'Rule Set' drop down and select the Rule Set against which the report should be executed. In this case, 'Global', the MIT Rule Set, was selected. Unless advised otherwise, the selection should always be 'Global' for this report.



The screenshot shows the 'Risk Analysis : User Level' web application interface. The browser address bar indicates the URL: https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X.

Risk Analysis : User Level

Analysis Criteria

System is *PS1*
 User is
 User Group is
 Custom Group is
 Risk Level is All
 Rule Set is Global
 User Type is ZAUDIT

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Mitigating Controls

Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Show All Objects
- ☐ Consider Org Rule
- ☐ Offline Data

[Run in Foreground](#) [Run in Background](#)

6

In the 'Analysis Criteria' section, select the User Type' drop down and select the type of users for which information is required. In this case, 'Dialog' was selected so that the report only evaluates for dialog users.

Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is

User Group is

Custom Group is

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Summary

Type:

☒ Access Risk Analysis ☐ Action Level ☒ Permission L

☐ Access Risk Assessment

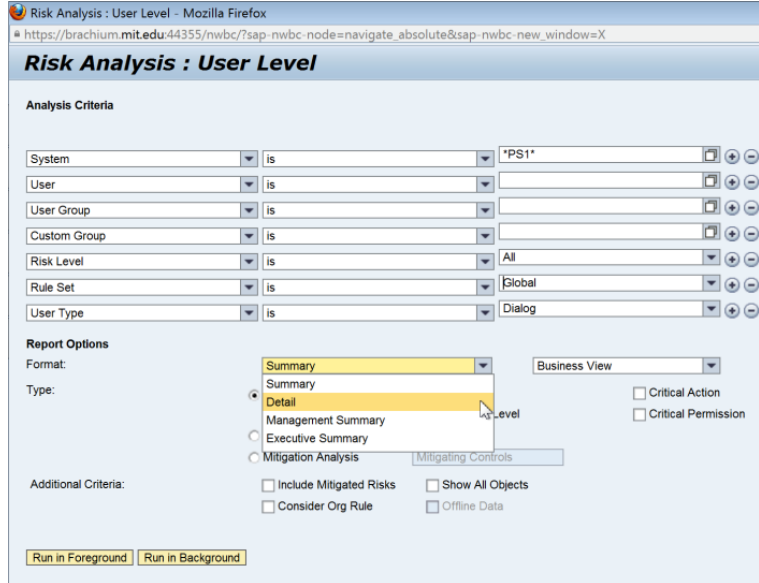
☐ Mitigation Analysis

☐ Include Mitigated Risks ☐ Show All Objects

☐ Consider Org Rule ☐ Offline Data

7

In the 'Report Options' section, select the first drop down for 'Format' and select the level of detail at which information is required. In this case, 'Detail' was selected so that the report will show information about why Risks exists.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is "PS1"
User is
User Group is
Custom Group is
Risk Level is All
Rule Set is Global
User Type is Dialog

Report Options

Format: Summary
Type: Detail
Business View
Critical Action
Critical Permission

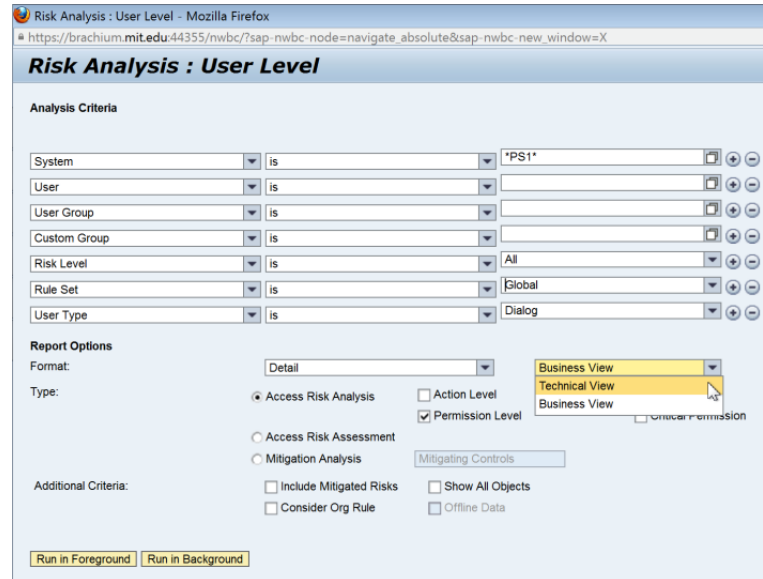
Additional Criteria:

☐ Include Mitigated Risks ☐ Show All Objects
☐ Consider Org Rule ☐ Offline Data

Run in Foreground Run in Background

8

In the 'Report Options' section, select the second drop down for 'Format' and select the type of information that is required. In this case, 'Technical View' was selected so that the report will show technical information about why Risks exists.



Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is

User Group is

Custom Group is

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail

Type: ☒ Access Risk Analysis ☐ Action Level ☒ Permission Level ☐ Critical Emission

☐ Access Risk Assessment

☐ Mitigation Analysis

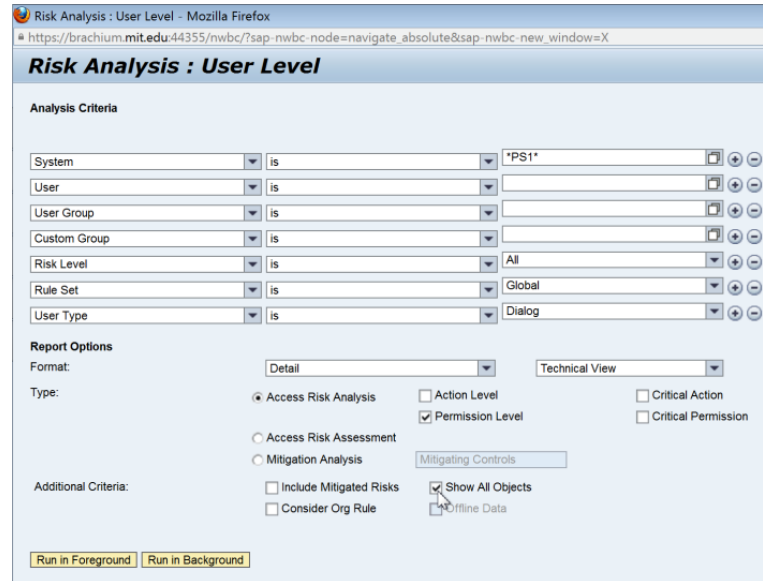
Mitigating Controls

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects ☐ Consider Org Rule ☐ Offline Data

Run in Foreground Run in Background

9

In the 'Report Options' section, check 'Show All Objects' under 'Additional Criteria'. This will ensure that Users with no violations are explicitly listed as such (i.e. 'No Violations' will be listed as a line item for such users' IDs).



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is

User Group is

Custom Group is

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis

☐ Action Level

☒ Permission Level

☐ Critical Action

☐ Critical Permission

Additional Criteria:

☐ Include Mitigated Risks

☒ Show All Objects

☐ Consider Org Rule

☐ Offline Data

Run in Foreground Run in Background

10A-1

Analyze for SODs based on user ID.

In the 'Report Options' section, select the first dial button for 'Access Risk Analysis'. Next, select the type of analysis that is required. The options available are:

Action Level: SODs at the transaction level (will include false positives eliminated at the authorization level)

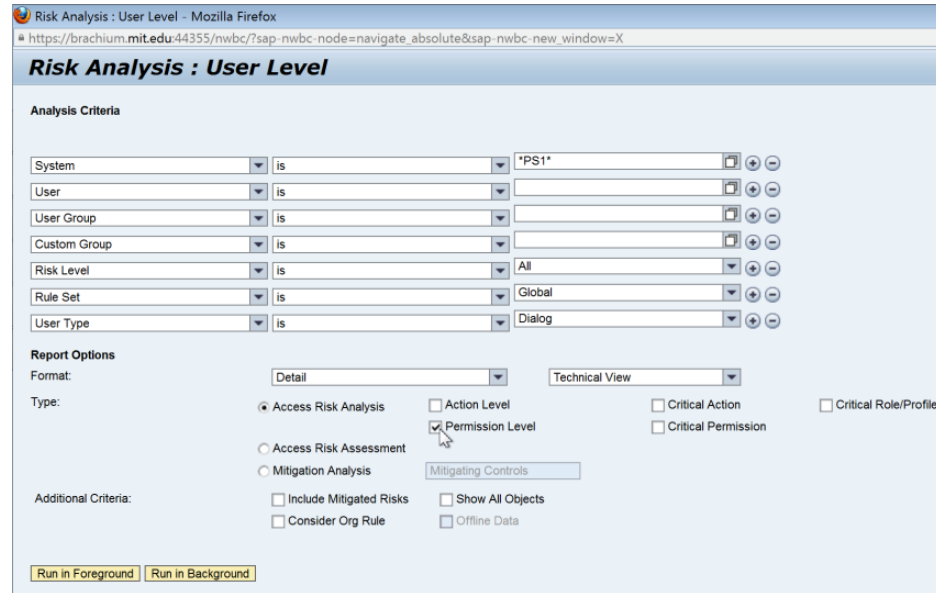
Permission Level: SODs at the authorization level

Critical Action: Critical transactions that limited/no users should have

Critical Permission: Critical authorizations that limited/no users should have

Critical Role/Profile: Critical Roles/Profiles that limited/no users should have

In this case, 'Permission Level' was selected so that the report will show SODs that exist at the Permission Level.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System: [dropdown] is [dropdown] *PS1* [button] [button] [button]
 User: [dropdown] is [dropdown] [button] [button] [button]
 User Group: [dropdown] is [dropdown] [button] [button] [button]
 Custom Group: [dropdown] is [dropdown] [button] [button] [button]
 Risk Level: [dropdown] is [dropdown] All [button] [button] [button]
 Rule Set: [dropdown] is [dropdown] Global [button] [button] [button]
 User Type: [dropdown] is [dropdown] Dialog [button] [button] [button]

Report Options

Format: [Detail] [Technical View]

Type:

☒ Access Risk Analysis ☐ Action Level ☐ Critical Action ☐ Critical Role/Profile
☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission
☐ Mitigation Analysis [Mitigating Controls]

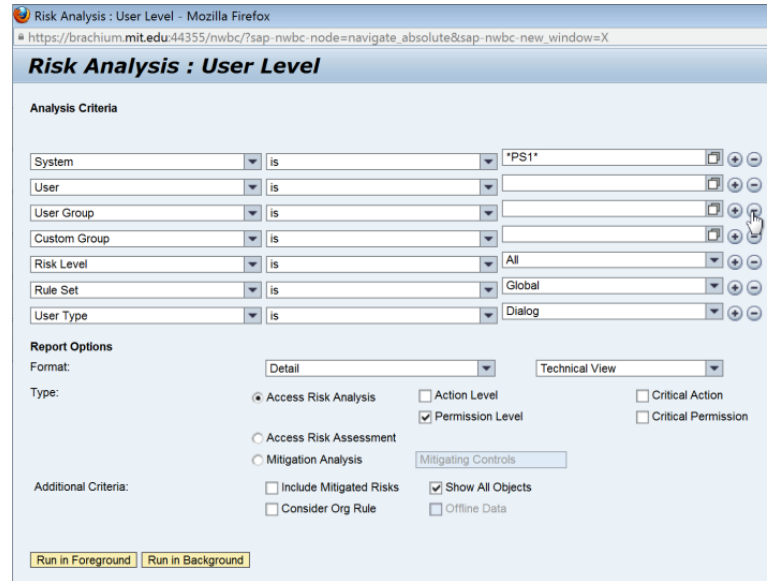
Additional Criteria:

☐ Include Mitigated Risks ☐ Show All Objects
☐ Consider Org Rule ☐ Offline Data

[Run in Foreground] [Run in Background]

10A-2

In the 'Analysis Criteria' section, click on the '-' at the end of the 'User Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	[+]	[-]
User	is		[+]	[-]
User Group	is		[+]	[-]
Custom Group	is		[+]	[-]
Risk Level	is	All	[+]	[-]
Rule Set	is	Global	[+]	[-]
User Type	is	Dialog	[+]	[-]

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

Run in Foreground Run in Background

10A-3

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Custom Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.

Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	+	-
User	is		+	-
Custom Group	is		+	-
Risk Level	is	All	+	-
Rule Set	is	Global	+	-
User Type	is	Dialog	+	-

Report Options

Format: Detail Technical View

Type:

☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission

☐ Mitigation Analysis Mitigating Controls

Additional Criteria:

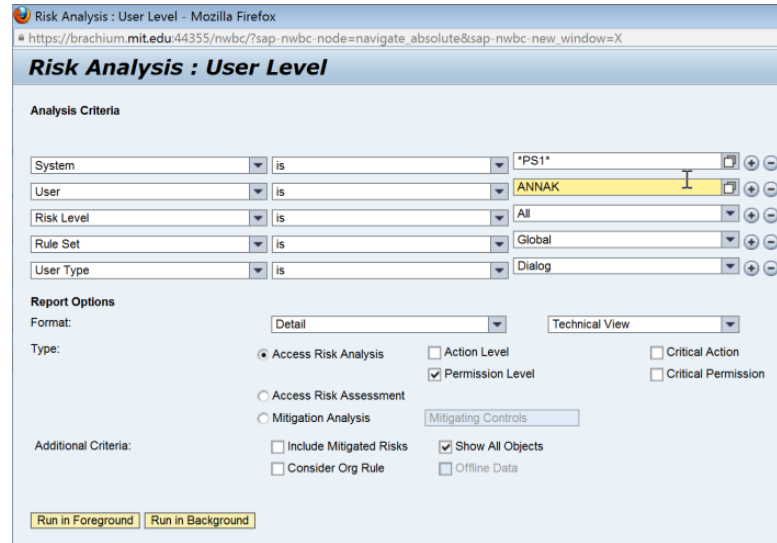
☐ Include Mitigated Risks ☒ Show All Objects

☐ Consider Org Rule ☐ Offline Data

Run in Foreground Run in Background

10A-4

Add the user ID. In this case, 'ANNAK' was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type:

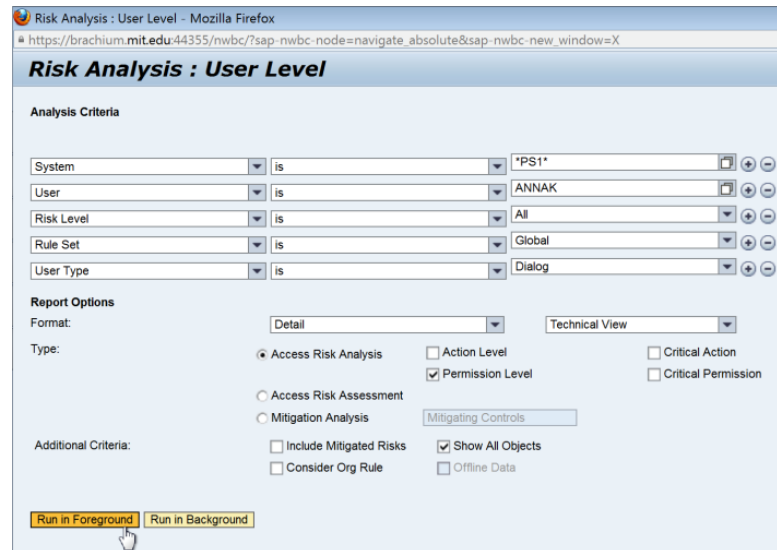
- ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action
- ☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission
- ☐ Mitigation Analysis

Additional Criteria:

- ☐ Include Mitigated Risks ☒ Show All Objects
- ☐ Consider Org Rule ☐ Offline Data

10A-5

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action
- ☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission
- ☐ Mitigation Analysis

Additional Criteria:

- ☐ Include Mitigated Risks ☒ Show All Objects
- ☐ Consider Org Rule ☐ Offline Data

10A-6

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Last Executed On: Date of last execution of transaction

Execution Count: Number of times transaction was executed for a specified time period

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Multiple Selection

Analysis Criteria

Analysis Results

Result Set: Result Set 1 [Go](#) [Previous](#) [Next](#) [Export Result Sets](#)

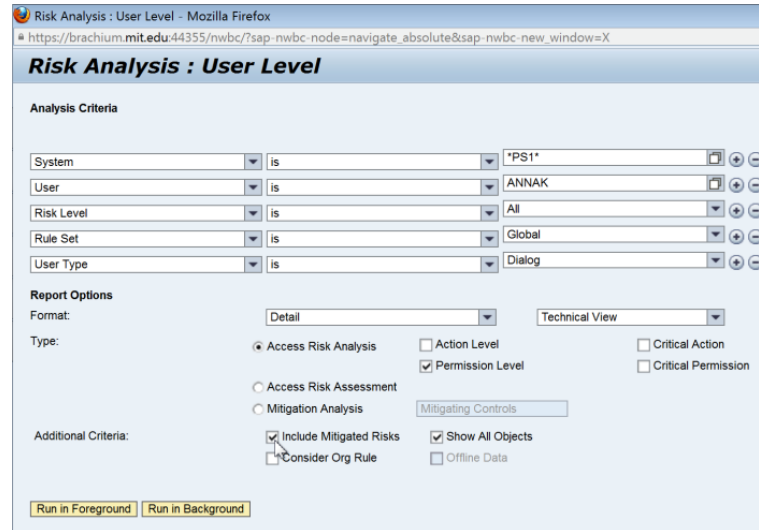
Result

View: [Standard View] Display As: Table [Print Version](#) [Export](#) Type: Permission Level Format: Detail [Mitigate Risk](#) [Filter Settings](#)

User ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Last Executed On	Execution Count	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
ANNAK					ZZPS103001	No Violations		0									

10A-7

In the 'Report Options' section, select the second drop down for 'Format' and select the type of information that is required. In this case, 'Technical View' was selected so that the report will show technical information about why Risks exists.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type:

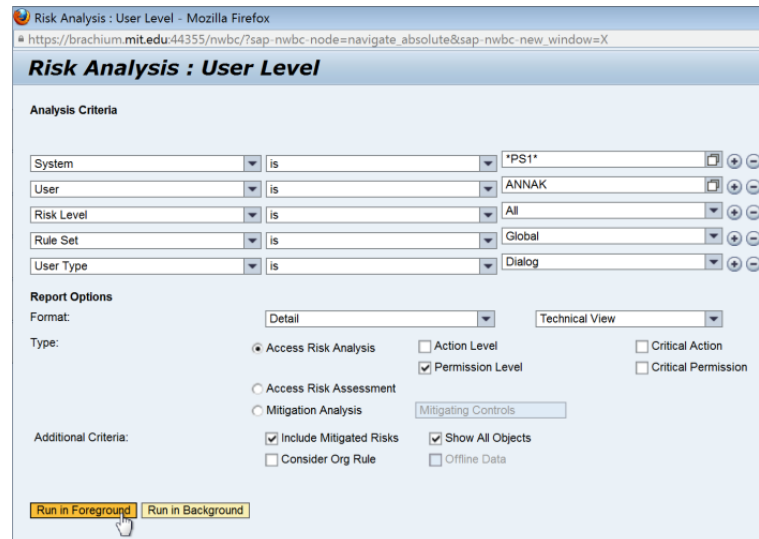
- ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action
- ☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission
- ☐ Mitigation Analysis

Additional Criteria:

- ☒ Include Mitigated Risks ☒ Show All Objects
- ☐ Consider Org Rule ☐ Offline Data

10A-8

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action
- ☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission
- ☐ Mitigation Analysis

Additional Criteria:

- ☒ Include Mitigated Risks ☒ Show All Objects
- ☐ Consider Org Rule ☐ Offline Data

10A-9

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Last Executed On: Date of last execution of transaction

Execution Count: Number of times transaction was executed for a specified time period

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

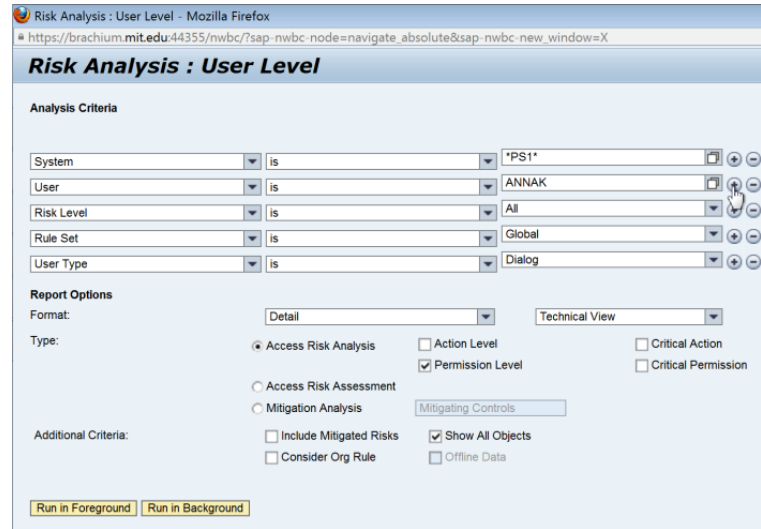
Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

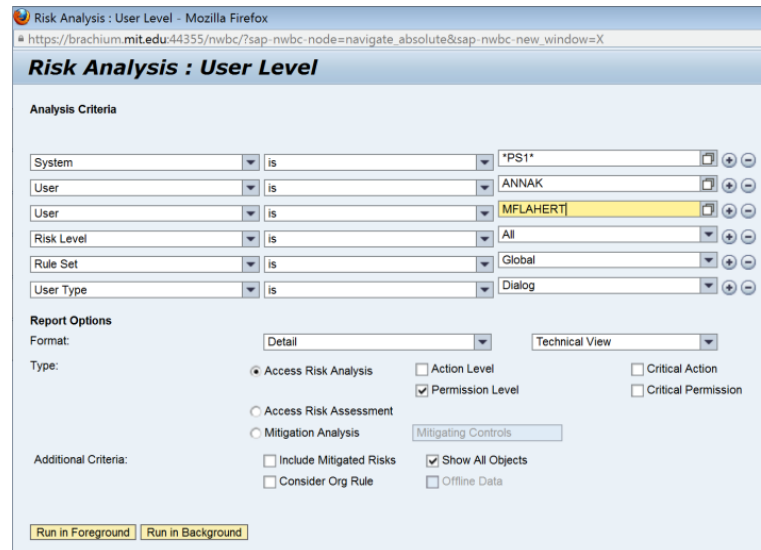
Multiple Selection																	
Analysis Criteria																	
Analysis Results																	
Result Set: Result Set 1 Go Previous Next Export Result Sets																	
Result																	
View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Detail Mitigate Risk Filter Se																	
User ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Last Executed On	Execution Count	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
ANNAK	F028	00LW	Medium	AP02	ZZPS103001	F-43		0	F_BKPF_BUK	ACTVT	01	02	Z#DP-JV		MC_APY_002	JLARKIN	
ANNAK	F028	00LW	Medium	AP02	ZZPS103001	F-43		0	F_BKPF_BUK	ACTVT	01	02	Z AP_S ADMINISTRATOR	Z_AP_C_ADMINISTRATOR	MC_APY_002	JLARKIN	
ANNAK	F028	00LW	Medium	AP02	ZZPS103001	F-43		0	F_BKPF_BUK	ACTVT	01	02	Z AP_S_CHK	Z_AP_C_ADMINISTRATOR	MC_APY_002	JLARKIN	
ANNAK	F028	00LW	Medium	AP02	ZZPS103001	F-43		0	F_BKPF_BUK	ACTVT	01	02	Z AP_S FEED	Z_AP_C_ADMINISTRATOR	MC_APY_002	JLARKIN	
ANNAK	F028	00LW	Medium	AP02	ZZPS103001	F-43		0	F_BKPF_BUK	ACTVT	01	02	Z AP_S MATL	Z_AP_C_ADMINISTRATOR	MC_APY_002	JLARKIN	
ANNAK	F028	00LW	Medium	AP02	ZZPS103001	F-43		0	F_BKPF_BUK	ACTVT	01	02	Z AP_S OPER LVL 1	Z_AP_C_ADMINISTRATOR	MC_APY_002	JLARKIN	
ANNAK	F028	00LW	Medium	AP02	ZZPS103001	F-43		0	F_BKPF_BUK	ACTVT	01	02	Z AP_S OPER LVL 2	Z_AP_C_ADMINISTRATOR	MC_APY_002	JLARKIN	
ANNAK	F028	00LW	Medium	AP02	ZZPS103001	F-43		0	S_TCODE	TCD	F-43		Z AP_S FEED	Z_AP_C_ADMINISTRATOR	MC_APY_002	JLARKIN	
ANNAK	F028	00LW	Medium	GL01	ZZPS103001	FB01		0	F_BKPF_BUK	ACTVT	01	02	Z#DP-JV		MC_APY_002	JLARKIN	

10A-10 Click on the ‘+’ at the end of the ‘User’ row to add an additional user ID search criterion row for each ID. In this case, one additional row is added; thus, we can analyze for a total of two user IDs.



The screenshot shows the 'Risk Analysis : User Level' interface in a Mozilla Firefox browser. The URL is https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X. The interface has a title bar 'Risk Analysis : User Level'. Below the title bar is the 'Analysis Criteria' section with five rows of search criteria: System, User, Risk Level, Rule Set, and User Type. Each row has a dropdown menu for the criterion, a dropdown for the operator (all set to 'is'), and a text input field for the value. The values are '*PS1*', 'ANNAK', 'All', 'Global', and 'Dialog' respectively. To the right of each input field is a '+' button. Below the search criteria is the 'Report Options' section. It has a 'Format' dropdown set to 'Detail' and a 'Technical View' dropdown. Under 'Type', there are three radio buttons: 'Access Risk Analysis' (selected), 'Access Risk Assessment', and 'Mitigation Analysis'. There are also checkboxes for 'Action Level', 'Permission Level' (checked), 'Critical Action', and 'Critical Permission'. Below these are checkboxes for 'Include Mitigated Risks', 'Consider Org Rule', 'Show All Objects' (checked), and 'Offline Data'. At the bottom are two buttons: 'Run in Foreground' and 'Run in Background'.

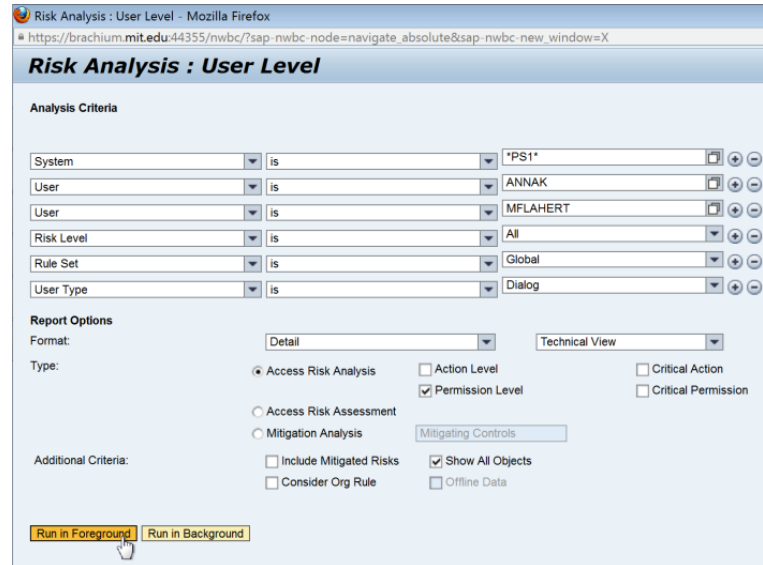
10A-11 Add the additional user ID. In this case, ‘ANNAK’ was entered previously and ‘MFLAHERT’ was then typed in as an additional ID. The search option can also be used to search for IDs. Please refer to the ‘Search for Input Values’ reference document (R3) for further information.



The screenshot shows the 'Risk Analysis : User Level' interface in a Mozilla Firefox browser. The URL is https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X. The interface has a title bar 'Risk Analysis : User Level'. Below the title bar is the 'Analysis Criteria' section with six rows of search criteria: System, User, User, Risk Level, Rule Set, and User Type. The first 'User' row has the value 'ANNAK' and the second 'User' row has the value 'MFLAHERT'. Both 'User' rows have a '+' button to their right. The other criteria and report options are the same as in the previous screenshot.

10A-12

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*
User	is	ANNAK
User	is	IMFLAHERT
Risk Level	is	All
Rule Set	is	Global
User Type	is	Dialog

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

Run in Foreground Run in Background

10A-13

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Last Executed On: Date of last execution of transaction

Execution Count: Number of times transaction was executed for a specified time period

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Multiple Selection

Analysis Criteria

Analysis Results

Result Set: Result Set 1 Go Previous Next Export Result Sets

Result

View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Detail Mitigate Risk

User ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Last Executed On	Execution Count	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control
ANNAK					ZZPS103001	No Violations		0							
MFLAHERT	F006	002U	High	AP02	ZZPS103001	FB01		0	F_BKPF_BUK	ACTVT	01	02	Z#DP_JV		
MFLAHERT	F006	002U	High	AP02	ZZPS103001	FB01		0	F_BKPF_BUK	ACTVT	01	02	Z#DP_JV_FY		
MFLAHERT	F006	002U	High	AP02	ZZPS103001	FB01		0	F_BKPF_BUK	ACTVT	01	02	Z_VPF_S_ACTNG_TRANSACT_FINANCE	Z_VPF_C_PY_FI_FO_ACTNT	
MFLAHERT	F006	002U	High	AP02	ZZPS103001	FB01		0	F_BKPF_BUK	ACTVT	01	02	Z_VPF_S_FAR_FIXED_ASSETS	Z_VPF_C_FAR_INTERNAL_RPT	
MFLAHERT	F006	002U	High	AP02	ZZPS103001	FB01		0	F_BKPF_BUK	ACTVT	01	02	Z_VPF_S_FAR_JV_PARK	Z_VPF_C_FAR_INTERNAL_RPT	
MFLAHERT	F006	002U	High	AP02	ZZPS103001	FB01		0	S_TCODE	TCD	FB01		Z_VPF_S_ACTNG_TRANSACT_FINANCE	Z_VPF_C_PY_FI_FO_ACTNT	
MFLAHERT	F006	002U	High	FA01	ZZPS103001	AB08		0	A_B_ANLKL	ACTVT	01		Z_VPF_S_FAR_FIXED_ASSETS	Z_VPF_C_FAR_INTERNAL_RPT	
MFLAHERT	F006	002U	High	FA01	ZZPS103001	AB08		0	S_TCODE	TCD	AB08		Z_VPF_S_FAR_FIXED_ASSETS	Z_VPF_C_FAR_INTERNAL_RPT	
MFLAHERT	F006	0032	High	AP02	ZZPS103001	FBV0		0	F_BKPF_BUK	ACTVT	01	02	Z#DP_JV		

10B-1

Analyze for SODs based on user group.

In the 'Report Options' section, select the first dial button for 'Access Risk Analysis'. Next, select the type of analysis that is required. The options available are:

Action Level: SODs at the transaction level (will include false positives eliminated at the authorization level)

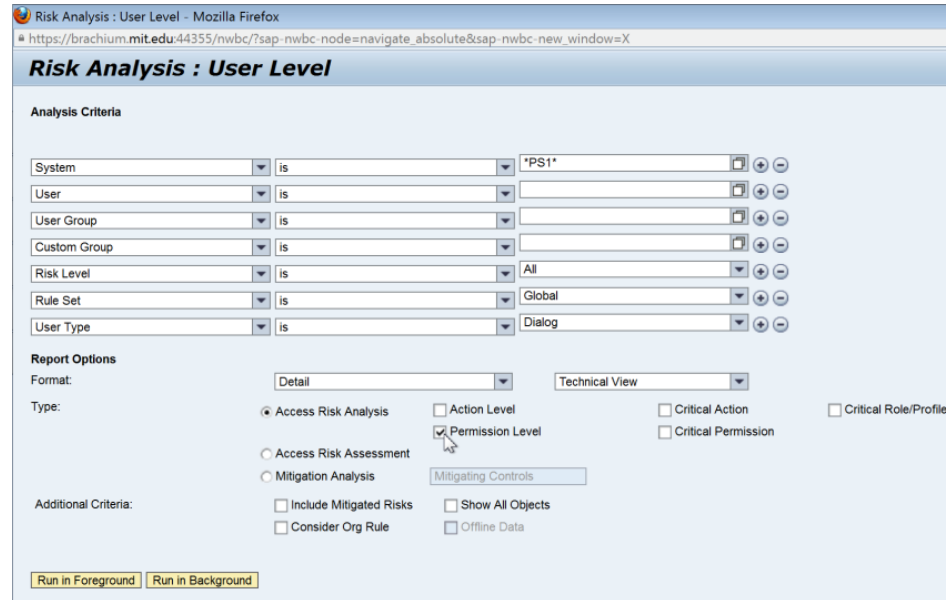
Permission Level: SODs at the authorization level

Critical Action: Critical transactions that limited/no users should have

Critical Permission: Critical authorizations that limited/no users should have

Critical Role/Profile: Critical Roles/Profiles that limited/no users should have

In this case, 'Permission Level' was selected so that the report will show SODs that exist at the Permission Level.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System: is *PS1*

User: is

User Group: is

Custom Group: is

Risk Level: is All

Rule Set: is Global

User Type: is Dialog

Report Options

Format: Detail Technical View

Type:

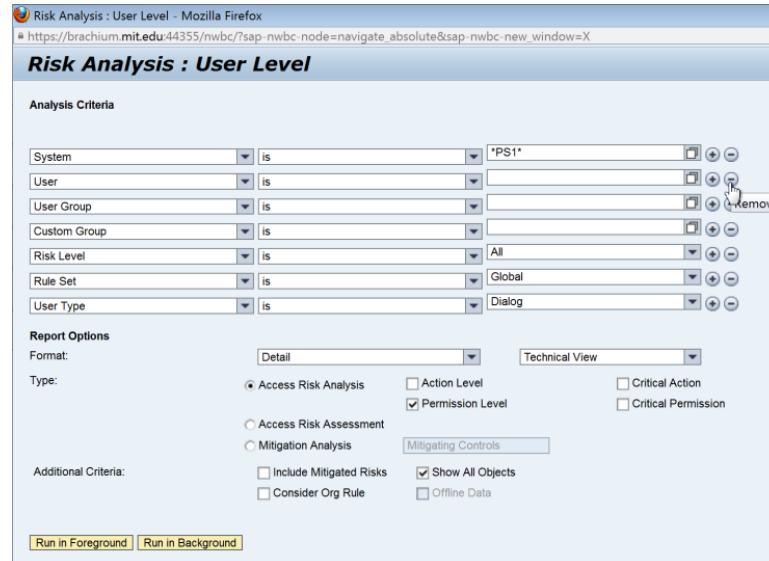
- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Role/Profile
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☐ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

Run in Foreground Run in Background

10B-2

In the 'Analysis Criteria' section, click on the '-' at the end of the 'User' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : User Level

Analysis Criteria

System	User	User Group	Custom Group	Risk Level	Rule Set	User Type	
is	is	is	is	is	is	is	-
							-
							-
							-
							-
							-
							-

Report Options

Format: Detail Technical View

Type:

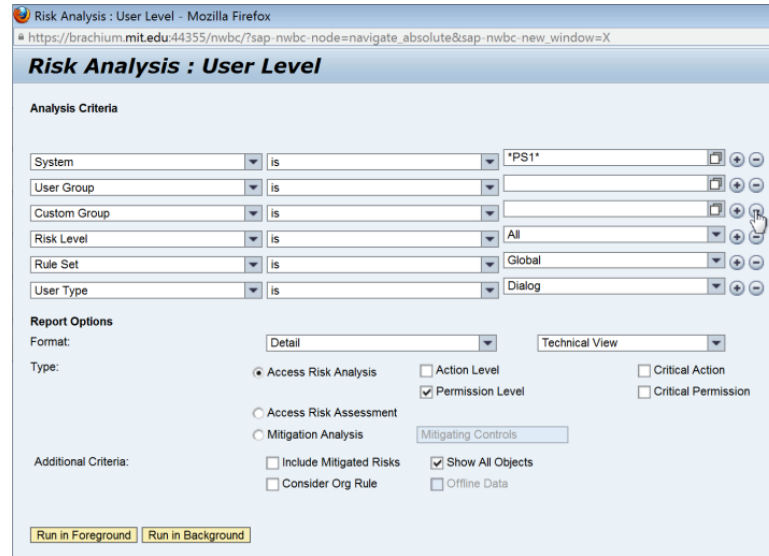
- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

Run in Foreground Run in Background

10B-3

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Custom Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	
User Group	is		
Custom Group	is		
Risk Level	is	All	
Rule Set	is	Global	
User Type	is	Dialog	

Report Options

Format: Detail Technical View

Type:

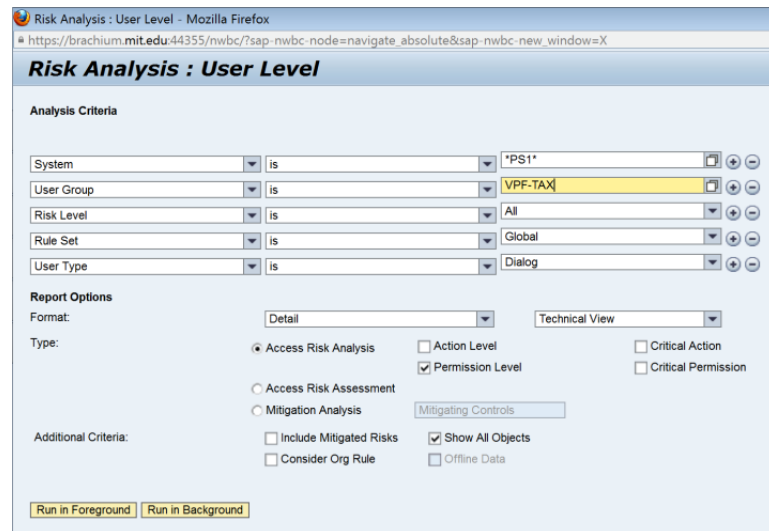
- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

Run in Foreground Run in Background

10B-4

Add the user group name. In this case, 'VPF-TAX', the user group containing all users in VPF who are part of the Tax area, was typed in. The search option can also be used to search for user groups. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	
User Group	is	VPF-TAX	
Custom Group	is		
Risk Level	is	All	
Rule Set	is	Global	
User Type	is	Dialog	

Report Options

Format: Detail Technical View

Type:

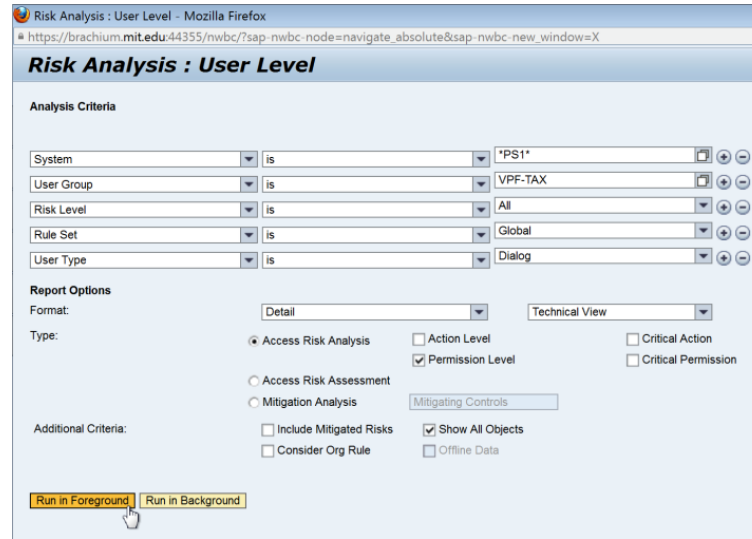
- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

Run in Foreground Run in Background

10B-5

Run the report in the foreground.



Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*
User Group	is	VPF-TAX
Risk Level	is	All
Rule Set	is	Global
User Type	is	Dialog

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

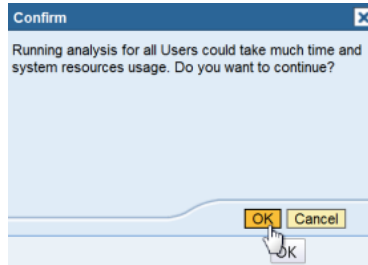
Run in Foreground Run in Background

10B-6

You may receive a message stating that running the report in the foreground “could take much time and system resources usage” and asking, “Do you want to continue?”

If the report is expected to yield a large amount of data, click on ‘Cancel’ and execute the report by running a background job. See the ‘Execute a Background Job’ reference document (R5) for further information.

Otherwise, click ‘OK’ to continue.



10B-7

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Last Executed On: Date of last execution of transaction

Execution Count: Number of times transaction was executed for a specified time period

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Multiple Selection

Analysis Criteria

Analysis Results

Result Set: Result Set 1

Go

Previous

Next

Export Result Sets

Result

View: [Standard View]

Display As: Table

Print Version

Export

Type: Permission Level

Format: Detail

Mitigate Risk

Filter Settings

User ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Last Executed On	Execution Count	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
LCTRAN					ZZPS103001	No Violations		0									
RCBERGER					ZZPS103001	No Violations		0									
RSOOHOO					ZZPS103001	No Violations		0									
VWU					ZZPS103001	No Violations		0									

10C-1

Analyze for SODs based on Custom Group.

In the 'Report Options' section, select the first dial button for 'Access Risk Analysis'. Next, select the type of analysis that is required. The options available are:

Action Level: SODs at the transaction level (will include false positives eliminated at the authorization level)

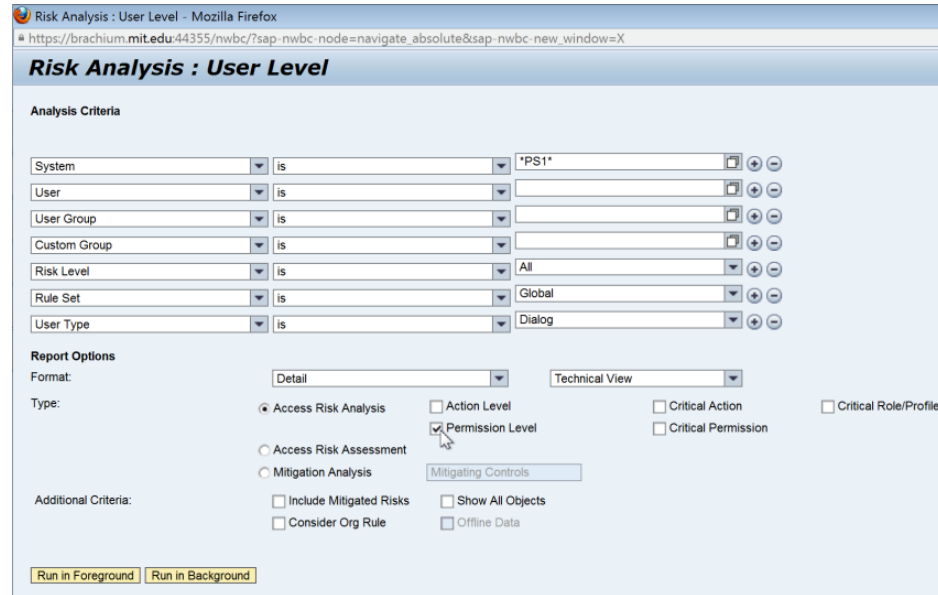
Permission Level: SODs at the authorization level

Critical Action: Critical transactions that limited/no users should have

Critical Permission: Critical authorizations that limited/no users should have

Critical Role/Profile: Critical Roles/Profiles that limited/no users should have

In this case, 'Permission Level' was selected so that the report will show SODs that exist at the Permission Level.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is

User Group is

Custom Group is

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type:

☒ Access Risk Analysis ☐ Action Level ☐ Critical Action ☐ Critical Role/Profile

☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission

☐ Mitigation Analysis

Mitigating Controls

Additional Criteria:

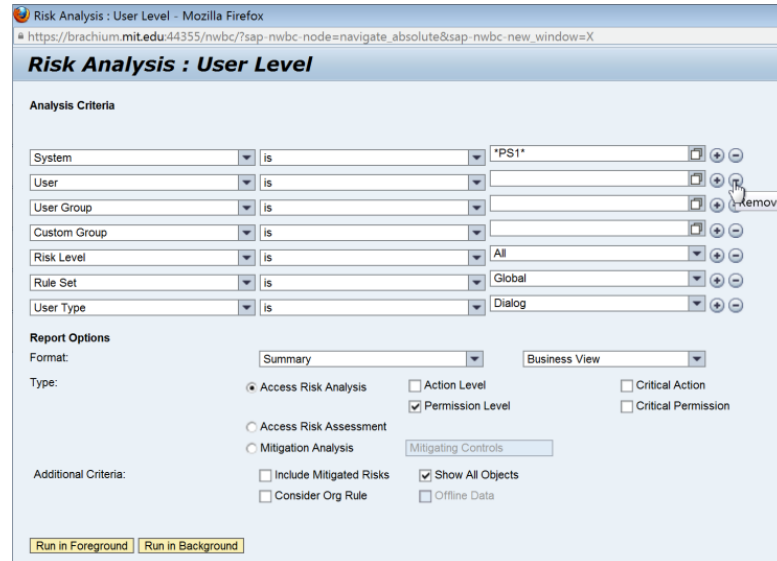
☐ Include Mitigated Risks ☐ Show All Objects

☐ Consider Org Rule ☐ Offline Data

Run in Foreground Run in Background

10C-2

In the 'Analysis Criteria' section, click on the '-' at the end of the 'User' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	-
User	is		-
User Group	is		-
Custom Group	is		-
Risk Level	is	All	-
Rule Set	is	Global	-
User Type	is	Dialog	-

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action
- ☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission
- ☐ Mitigation Analysis

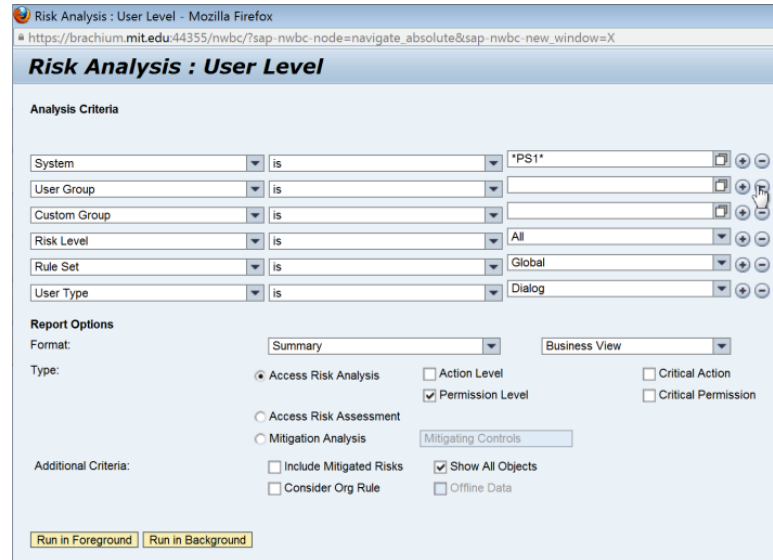
Additional Criteria:

- ☐ Include Mitigated Risks ☒ Show All Objects
- ☐ Consider Org Rule ☐ Offline Data

Run in Foreground Run in Background

10C-3

In the 'Analysis Criteria' section, click on the '-' at the end of the 'User Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	[+/-]
User Group	is		[+/-]
Custom Group	is		[+/-]
Risk Level	is	All	[+/-]
Rule Set	is	Global	[+/-]
User Type	is	Dialog	[+/-]

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - Mitigating Controls

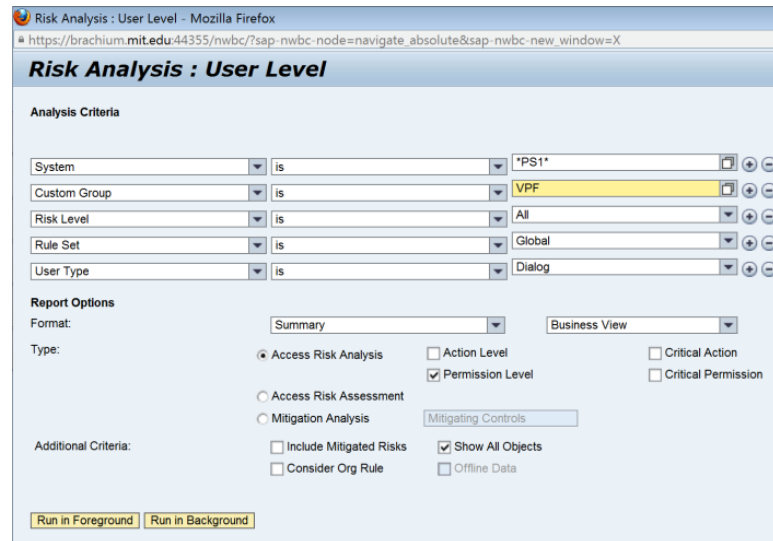
Additional Criteria:

- ☐ Include Mitigated Risks
- ☒ Show All Objects
- ☐ Consider Org Rule
- ☐ Offline Data

Run in Foreground Run in Background

10C-4

Add the custom group name. In this case, 'VPF', the custom group containing all users in VPF, was typed in. The search option can also be used to search for custom groups. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	[+/-]
Custom Group	is	VPF	[+/-]
Risk Level	is	All	[+/-]
Rule Set	is	Global	[+/-]
User Type	is	Dialog	[+/-]

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - Mitigating Controls

Additional Criteria:

- ☐ Include Mitigated Risks
- ☒ Show All Objects
- ☐ Consider Org Rule
- ☐ Offline Data

Run in Foreground Run in Background

10C-5

Run the report in the foreground.

Risk Analysis : User Level

Analysis Criteria

System: is *PS1*

Custom Group: is VPF

Risk Level: is All

Rule Set: is Global

User Type: is Dialog

Report Options

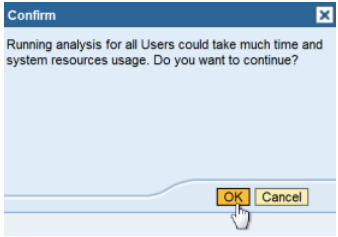
Format: Summary Business View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

Run in Foreground Run in Background

<p>10C-6</p>	<p>You may receive a message stating that running the report in the foreground “could take much time and system resources usage” and asking, “Do you want to continue?”</p> <p>If the report is expected to yield a large amount of data, click on ‘Cancel’ and execute the report by running a background job. See the ‘Execute a Background Job’ reference document (R5) for further information.</p> <p>Otherwise, click ‘OK’ to continue.</p>	
--------------	---	---

10C-7

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Last Executed On: Date of last execution of transaction

Execution Count: Number of times transaction was executed for a specified time period

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

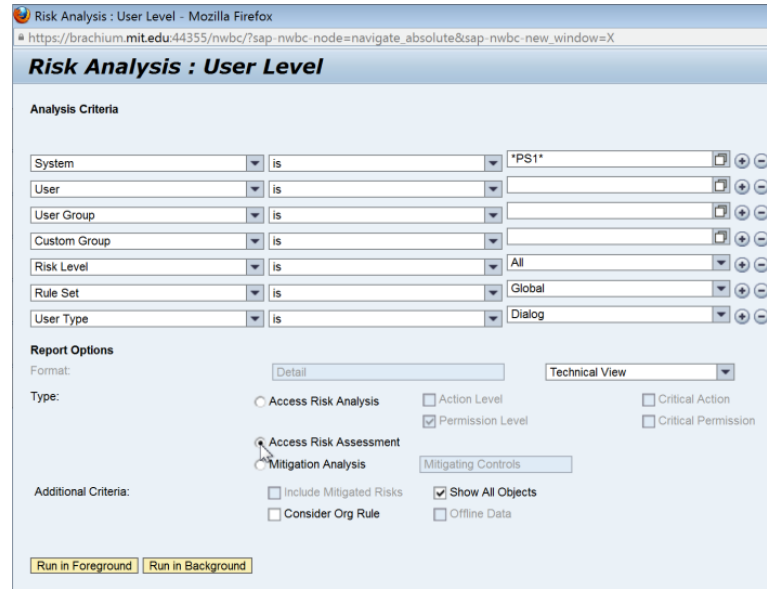
Monitor: The user ID of the Monitor responsible for the Mitigating Control

Multiple Selection												
Analysis Criteria												
Analysis Results												
Result Set: Result Set 1 Go Previous Next Export Result Sets												
Result												
View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Summary Mitigate Risk												
User ID	User Name	User Group	Access Risk ID	Risk Description	System	Rule ID	Risk Level	Action	Action Description	Last Executed On	Execution C	
AAPAR	Allison Parisi	VPF-BFT			ZZPS103001			No Violations				
AFLAHERT	Anthony J Flaherty	VPF-PROCURE			ZZPS103001			No Violations				
AKERBERG	William Akerberg	VPF-PROCURE			ZZPS103001			No Violations				
AMARCUM	Allen M Marcum	VPF-ADMIN	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	01D2	Medium	FBV0	Post Parked Document			
AMARCUM	Allen M Marcum	VPF-ADMIN	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	01D3	Medium	FBV0	Post Parked Document			
AMARCUM	Allen M Marcum	VPF-ADMIN	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	01D3	Medium	FV60	Park Incoming Invoices			
AMARCUM	Allen M Marcum	VPF-ADMIN	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	027Q	Medium	FBV0	Post Parked Document			
AMARCUM	Allen M Marcum	VPF-ADMIN	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	027Q	Medium	ZJVA	JV			
AMARCUM	Allen M Marcum	VPF-ADMIN	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	027R	Medium	FV60	Park Incoming Invoices			
AMARCUM	Allen M Marcum	VPF-ADMIN	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	027R	Medium	ZJVA	JV			

10D-1

Carry out an Access Risk Assessment by user ID.

In the 'Report Options' section, select the second dial button for 'Access Risk Assessment'.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System is *PS1*

User is

User Group is

Custom Group is

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type:

☐ Access Risk Analysis ☐ Action Level ☐ Critical Action

☒ Access Risk Assessment ☒ Permission Level ☐ Critical Permission

☐ Mitigation Analysis Mitigating Controls

Additional Criteria:

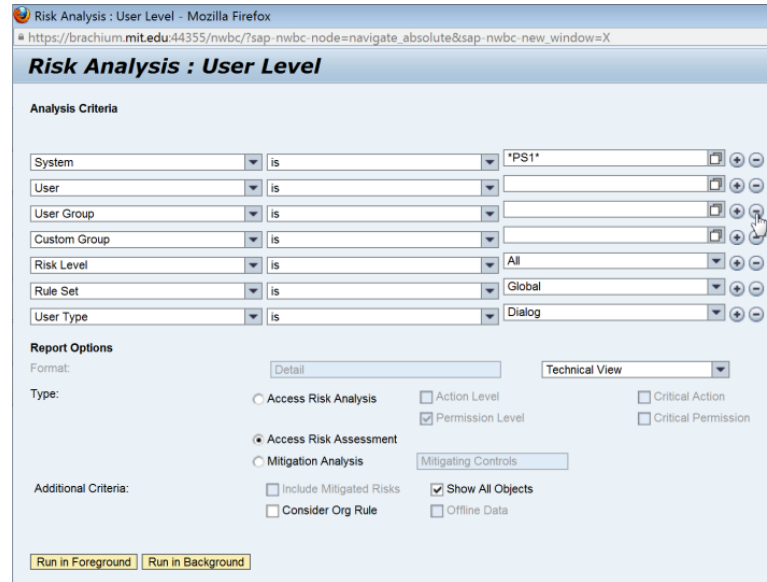
☐ Include Mitigated Risks ☒ Show All Objects

☐ Consider Org Rule ☐ Offline Data

Run in Foreground Run in Background

10D-2

In the 'Analysis Criteria' section, click on the '-' at the end of the 'User Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	[-]
User	is		[-]
User Group	is		[-]
Custom Group	is		[-]
Risk Level	is	All	[-]
Rule Set	is	Global	[-]
User Type	is	Dialog	[-]

Report Options

Format: Detail Technical View

Type:

- ☐ Access Risk Analysis
- ☒ Access Risk Assessment
- ☐ Mitigation Analysis

☐ Action Level

☒ Permission Level

☐ Critical Action

☐ Critical Permission

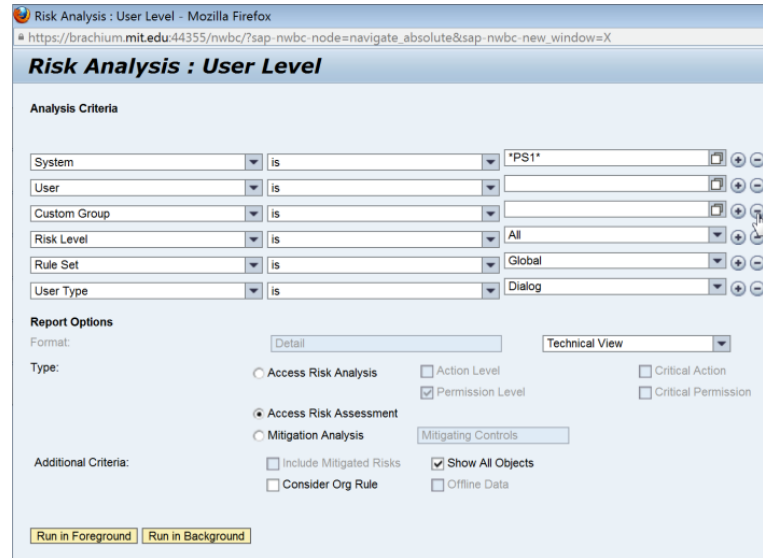
Additional Criteria:

- ☐ Include Mitigated Risks
- ☒ Show All Objects
- ☐ Consider Org Rule
- ☐ Offline Data

Run in Foreground Run in Background

10D-3

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Custom Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	User	Custom Group	Risk Level	Rule Set	User Type
is	is	*PS1*	is	Global	Dialog

Report Options

Format:

Type:

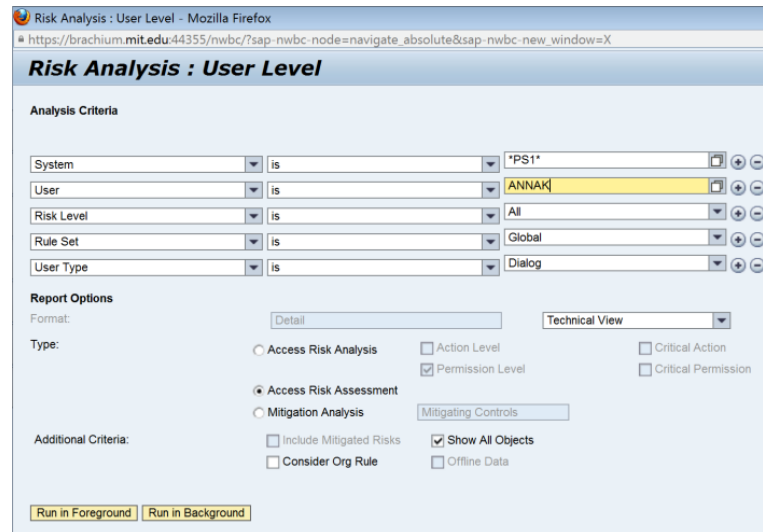
- ☐ Access Risk Analysis
- ☒ Access Risk Assessment
- ☐ Mitigation Analysis

Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Consider Org Rule
- ☒ Show All Objects
- ☐ Offline Data

10D-4

Add the user ID. In this case, 'ANNAK' was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	User	Custom Group	Risk Level	Rule Set	User Type
is	ANNAK	*PS1*	is	Global	Dialog

Report Options

Format:

Type:

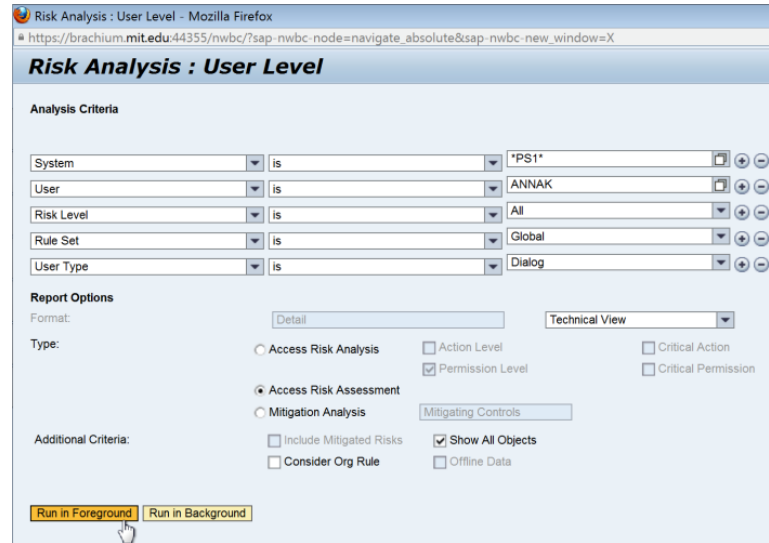
- ☐ Access Risk Analysis
- ☒ Access Risk Assessment
- ☐ Mitigation Analysis

Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Consider Org Rule
- ☒ Show All Objects
- ☐ Offline Data

10D-5

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*
User	is	ANNAK
Risk Level	is	All
Rule Set	is	Global
User Type	is	Dialog

Report Options

Format: Detail Technical View

Type:

- ☐ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☒ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

Run in Foreground Run in Background

10D-6

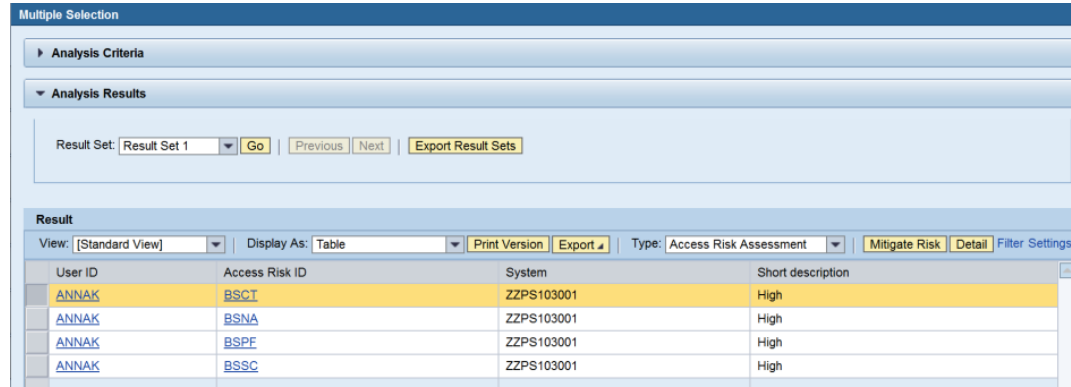
Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

System: The system in which the user has the risk

Short Description: The risk level defined for each Access Risk in the standard rule set



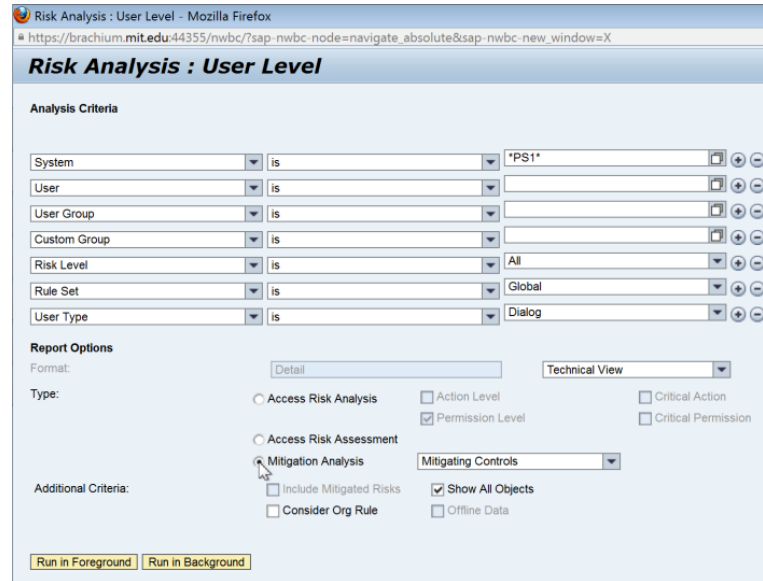
The screenshot shows the 'Multiple Selection' interface in the GRC system. It includes sections for 'Analysis Criteria' and 'Analysis Results'. Under 'Analysis Results', there is a 'Result Set' dropdown set to 'Result Set 1', with buttons for 'Go', 'Previous', 'Next', and 'Export Result Sets'. Below this is a 'Result' section with a 'View' dropdown set to 'Standard View', a 'Display As' dropdown set to 'Table', and buttons for 'Print Version', 'Export', and 'Type: Access Risk Assessment'. There are also buttons for 'Mitigate Risk', 'Detail', and 'Filter Settings'. The main part of the screenshot is a table with the following data:

User ID	Access Risk ID	System	Short description
ANNAK	BSCT	ZZPS103001	High
ANNAK	BSNA	ZZPS103001	High
ANNAK	BSPF	ZZPS103001	High
ANNAK	BSSC	ZZPS103001	High

10E-1

Carry out an analysis of Mitigating Controls by user ID.

In the 'Report Options' section, select the third dial button for 'Mitigation Analysis'.



The screenshot shows a web application titled "Risk Analysis : User Level" in a Mozilla Firefox browser. The URL is https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X.

Risk Analysis : User Level

Analysis Criteria

System: is *PS1*

User: is

User Group: is

Custom Group: is

Risk Level: is All

Rule Set: is Global

User Type: is Dialog

Report Options

Format: Detail Technical View

Type:

- ☐ Access Risk Analysis
- ☐ Access Risk Assessment
- ☒ Mitigation Analysis

Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Consider Org Rule
- ☐ Action Level
- ☒ Permission Level
- ☐ Critical Action
- ☐ Critical Permission

Mitigating Controls: [Dropdown]

☒ Show All Objects
- ☐ Offline Data

Run in Foreground Run in Background

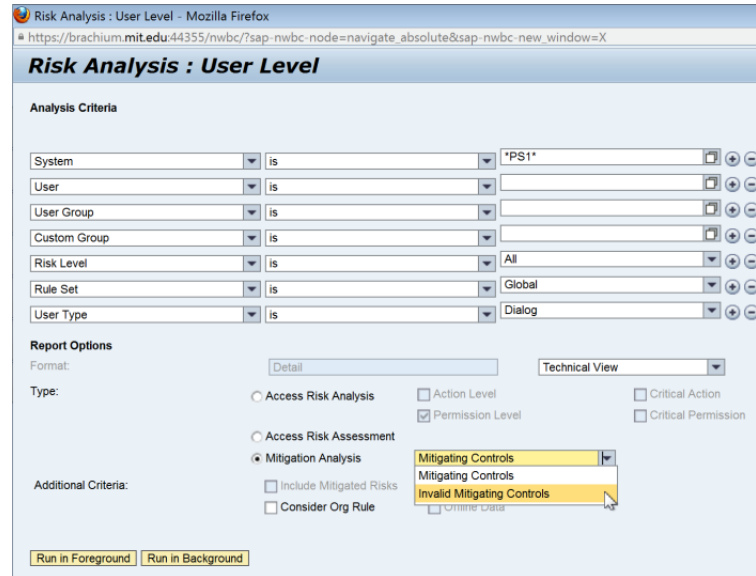
10E-2

In the 'Report Options' section, select the drop down for 'Mitigation Analysis' and select the type of information that is required. The options available are:

Mitigating Controls:
Information on all
Mitigating Controls
assignments

Invalid Mitigating Controls:
Information on all invalid
Mitigating Control
assignments

In this case, 'Invalid
Mitigating Controls' was
selected.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*
User	is	
User Group	is	
Custom Group	is	
Risk Level	is	All
Rule Set	is	Global
User Type	is	Dialog

Report Options

Format:

Type:

- ☐ Access Risk Analysis
- ☐ Access Risk Assessment
- ☒ Mitigation Analysis

Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Consider Org Rule

☐ Action Level

☒ Permission Level

☐ Critical Action

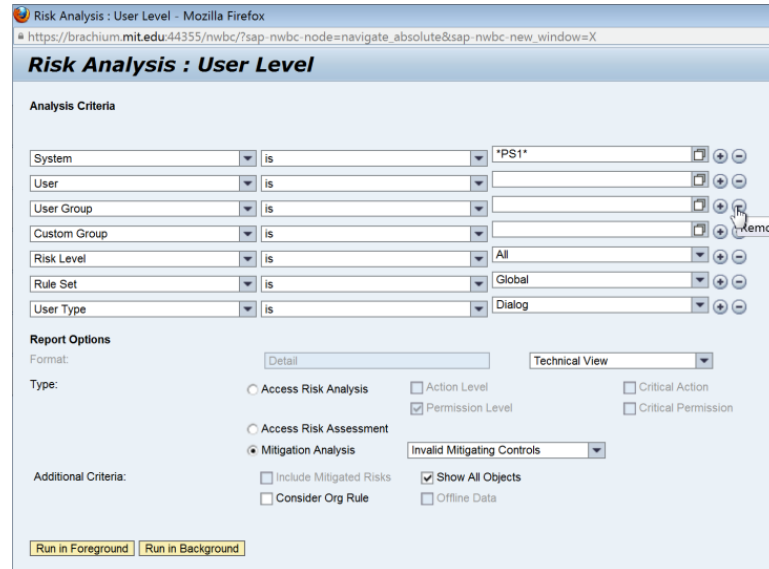
☐ Critical Permission

Mitigating Controls

- Mitigating Controls
- Invalid Mitigating Controls**
- Online Data

10E-3

In the 'Analysis Criteria' section, click on the '-' at the end of the 'User Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new.window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	+	-
User	is		+	-
User Group	is		+	-
Custom Group	is		+	-
Risk Level	is	All	+	-
Rule Set	is	Global	+	-
User Type	is	Dialog	+	-

Report Options

Format:

Type:

☐ Access Risk Analysis
 ☐ Action Level
 ☐ Critical Action

☒ Access Risk Assessment
 ☒ Permission Level
 ☐ Critical Permission

☒ Mitigation Analysis

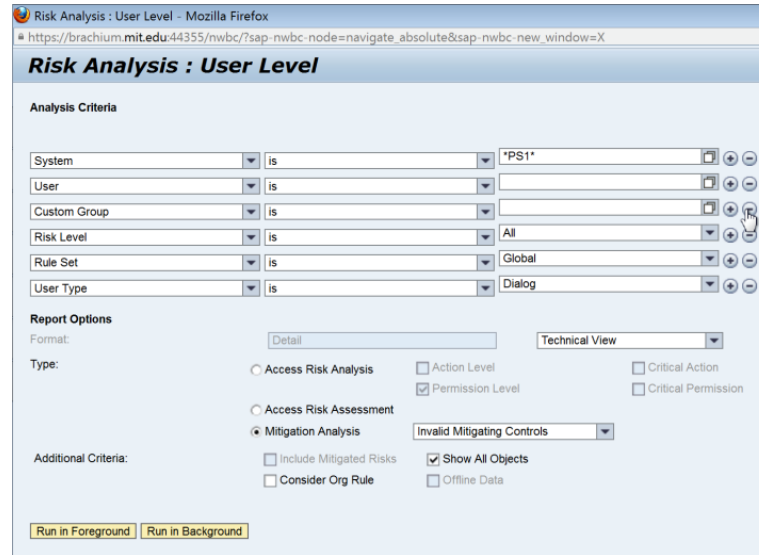
Additional Criteria:

☐ Include Mitigated Risks
 ☒ Show All Objects

☐ Consider Org Rule
 ☐ Offline Data

10E-4

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Custom Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	[+]	[-]
User	is		[+]	[-]
Custom Group	is		[+]	[-]
Risk Level	is	All	[+]	[-]
Rule Set	is	Global	[+]	[-]
User Type	is	Dialog	[+]	[-]

Report Options

Format:

Type:

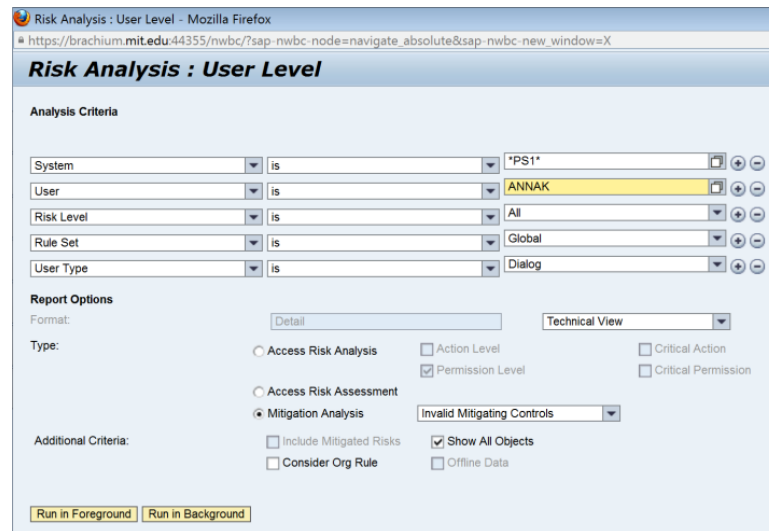
- ☐ Access Risk Analysis
 - ☐ Action Level
 - ☐ Critical Action
- ☐ Access Risk Assessment
 - ☒ Permission Level
 - ☐ Critical Permission
- ☒ Mitigation Analysis
 -

Additional Criteria:

- ☐ Include Mitigated Risks
- ☒ Show All Objects
- ☐ Consider Org Rule
- ☐ Offline Data

10E-5

Add the user ID. In this case, 'ANNAK' was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Risk Analysis : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*	[+]	[-]
User	is	ANNAK	[+]	[-]
Risk Level	is	All	[+]	[-]
Rule Set	is	Global	[+]	[-]
User Type	is	Dialog	[+]	[-]

Report Options

Format:

Type:

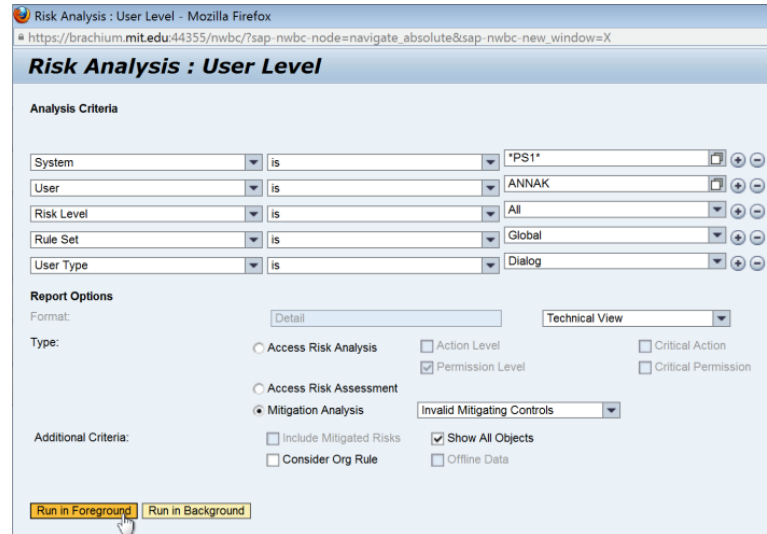
- ☐ Access Risk Analysis
 - ☐ Action Level
 - ☐ Critical Action
- ☐ Access Risk Assessment
 - ☒ Permission Level
 - ☐ Critical Permission
- ☒ Mitigation Analysis
 -

Additional Criteria:

- ☐ Include Mitigated Risks
- ☒ Show All Objects
- ☐ Consider Org Rule
- ☐ Offline Data

10E-6

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Risk Analysis : User Level

Analysis Criteria

System	is	*PS1*
User	is	ANNAK
Risk Level	is	All
Rule Set	is	Global
User Type	is	Dialog

Report Options

Format: Detail Technical View

Type:

- ☐ Access Risk Analysis
- ☐ Access Risk Assessment
- ☒ Mitigation Analysis

Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Consider Org Rule
- ☐ Action Level
- ☒ Permission Level
- ☐ Critical Action
- ☐ Critical Permission
- Invalid Mitigating Controls
- ☒ Show All Objects
- ☐ Offline Data

Run in Foreground Run in Background

10E-7

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

User ID: User ID of the user with a Risk that has been mitigated

System: The system in which the user has the risk

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Valid From: Date on which assignment of the control to the user begins

Valid To: Date on which assignment of the control to the user ends

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Multiple Selection

Analysis Criteria

Analysis Results

Result Set: Result Set 1 Go Previous Next Export Result Sets

Result

View: [Standard View] Display As: Table Print Version Export Type: Invalid Mitigating Controls Edit Filter Settings

User ID	System	Access Risk ID	Rule ID	Control	Valid From	Valid To	Monitor	SOD Object
ANNAK	ZZPS103001	P001	*	MC_APY_003	03/26/2013	03/26/2014	JLARKIN	
ANNAK	ZZPS103001	P002	*	MC_APY_003	03/26/2013	03/26/2014	JLARKIN	

Job Aid 13 User Level Simulation**USE**

This report can be used carry out simulations at the user level for the purpose of understanding whether the addition or removal of certain access either creates or eliminates SODs and other risks.

INFORMATION



New risk violations that will result due to changes to user access.

RELATED PROCESSES

- Process 1: New or Amended Roles
- Process 2: Mitigation Analysis

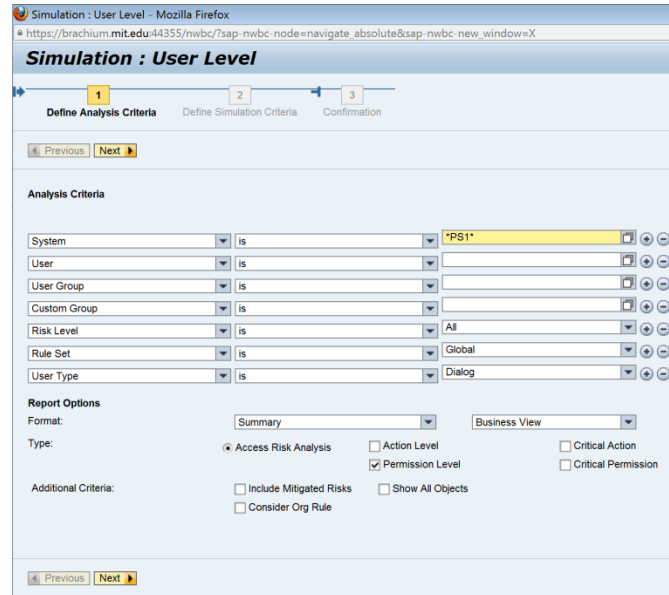
SPECIFIC SCENARIOS

- Step 15A: Simulation by Action (transaction).
- Step 15B: Simulation by Role.
- Step 15C: Simulation by Profile.

Step	Description	Screenshot
1	Navigate to the 'Access Management' tab.	 <p>Access Management</p>
2	Click on the 'User Level Simulation' report located in the 'Access Risk Analysis' section.	

3

In the 'Analysis Criteria' section, select the System for which information is required. Since the desired selection is PS1 (Production), '*PS1*' was typed in as the system. The search option can also be used to search for the correct system. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

User is

User Group is

Custom Group is

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
- ☐ Action Level
- ☒ Permission Level
- ☐ Critical Action
- ☐ Critical Permission

Additional Criteria:

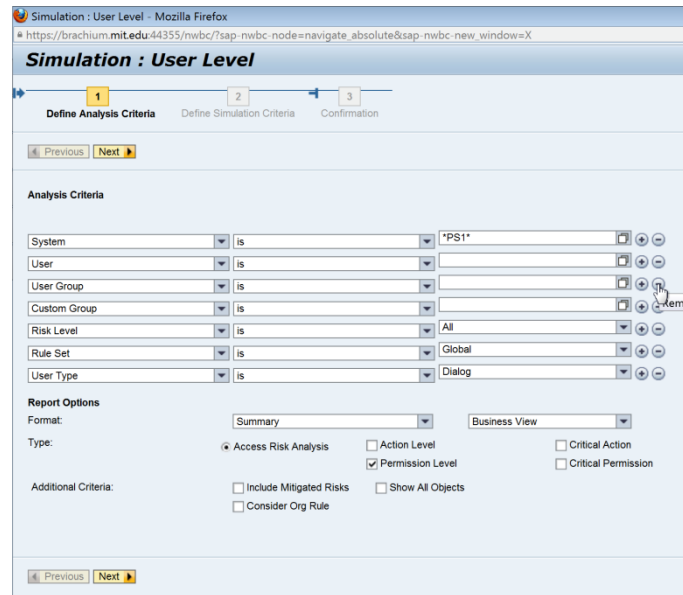
- ☐ Include Mitigated Risks
- ☐ Show All Objects
- ☐ Consider Org Rule

Previous Next

4

Run a simulation for a single User.

In the 'Analysis Criteria' section, click on the '-' at the end of the 'User Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System	is	*PS1*	+	-
User	is		+	-
User Group	is		+	-
Custom Group	is		+	-
Risk Level	is	All	+	-
Rule Set	is	Global	+	-
User Type	is	Dialog	+	-

Report Options

Format: Summary Business View

Type:

☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☒ Permission Level ☐ Critical Permission

Additional Criteria:

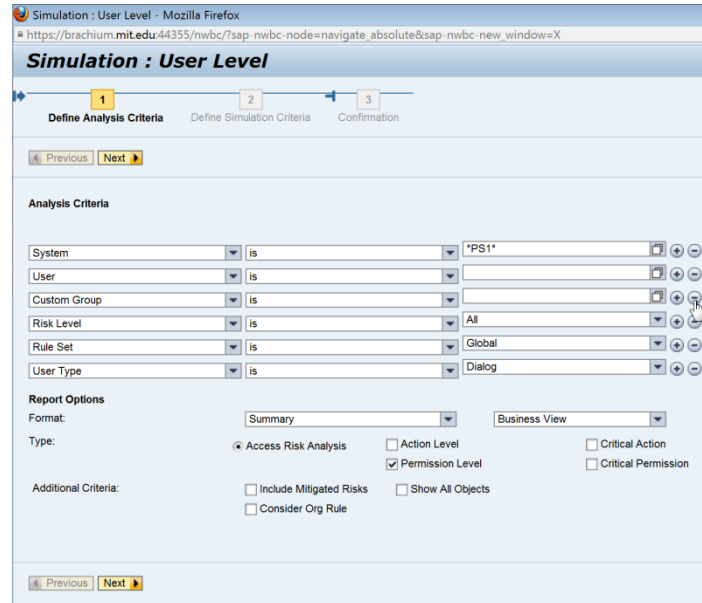
☐ Include Mitigated Risks ☐ Show All Objects

☐ Consider Org Rule

Previous Next

5

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Custom Group' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System	is	*PS1*	+	-
User	is		+	-
Custom Group	is		+	-
Risk Level	is	All	+	-
Rule Set	is	Global	+	-
User Type	is	Dialog	+	-

Report Options

Format: Summary Business View

Type:

☒ Access Risk Analysis
 ☐ Action Level
 ☐ Critical Action

☒ Permission Level
 ☐ Critical Permission

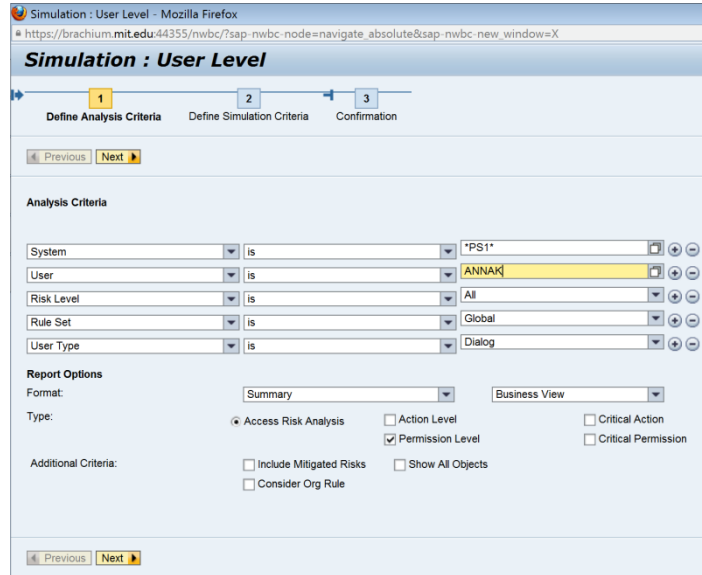
Additional Criteria:

☐ Include Mitigated Risks
 ☐ Show All Objects
 ☐ Consider Org Rule

Previous Next

6

Add the user ID. In this case, 'ANNAK' was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Summary Business View

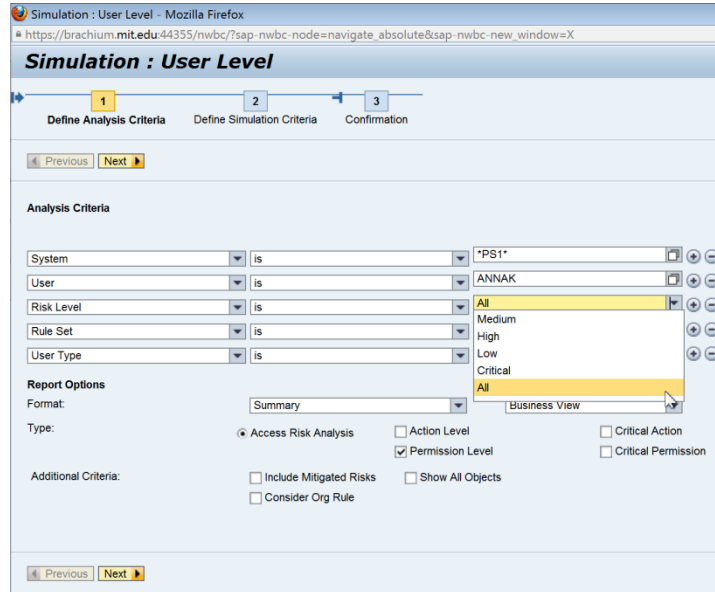
Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action ☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects ☐ Consider Org Rule

Previous Next

7

In the 'Analysis Criteria' section, select the 'Risk Level' drop down and select the risk level for which information is required. In this case, 'All' was selected so that the report evaluates for all risk levels.



Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Medium

User Type is High

Report Options

Format: Summary

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

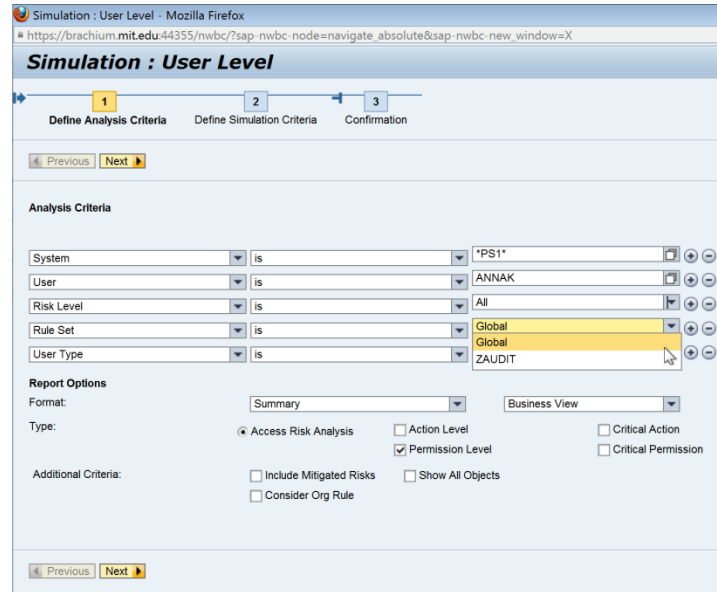
☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects ☐ Consider Org Rule

Previous Next

8

In the 'Analysis Criteria' section, select the 'Rule Set' drop down and select the Rule Set against which the report should be executed. In this case, 'Global', the MIT Rule Set, was selected. Unless advised otherwise, the selection should always be 'Global' for this report.



Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu/44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is ZAUDIT

Report Options

Format: Summary Business View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects ☐ Consider Org Rule

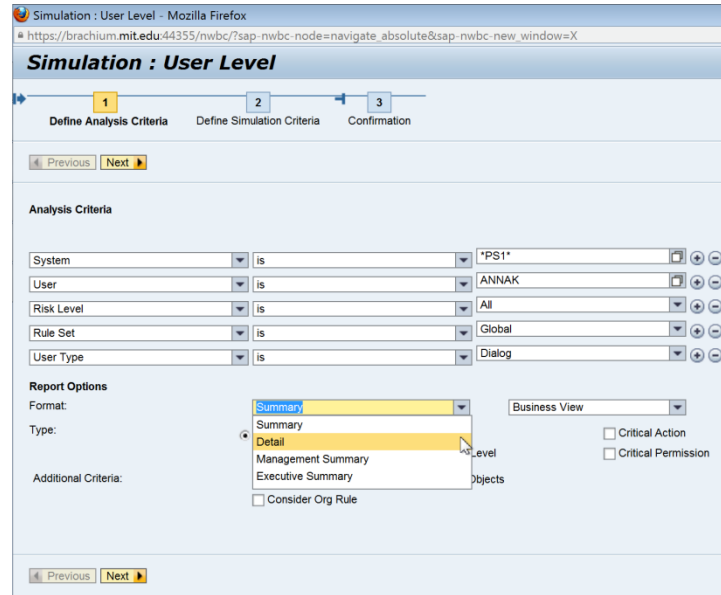
Previous Next

9

In the 'Analysis Criteria' section, select the User Type' drop down and select the type of users for which information is required. In this case, 'Dialog' was selected so that the report only evaluates for dialog users.

10

In the 'Report Options' section, select the first drop down for 'Format' and select the level of detail at which information is required. In this case, 'Detail' was selected so that the report will show information about why Risks exists.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Summary

Type: Detail

Additional Criteria:

Business View

☐ Critical Action

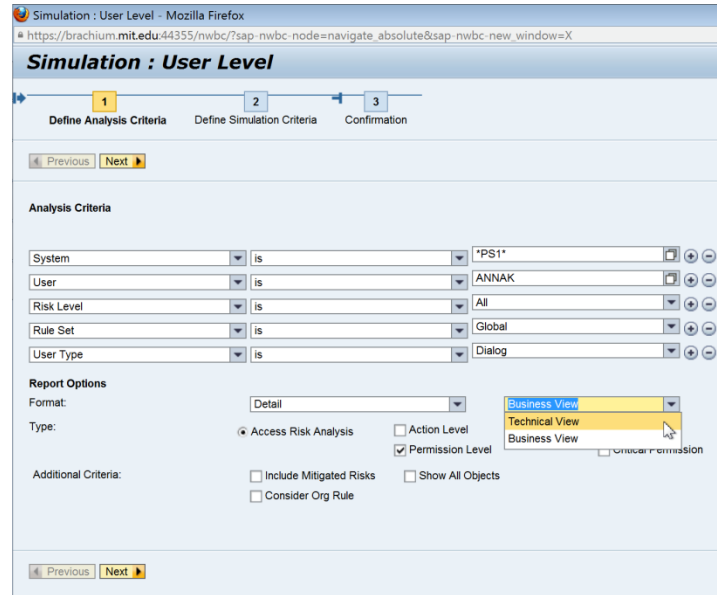
☐ Critical Permission

☐ Consider Org Rule

Previous Next

11

In the 'Report Options' section, select the second drop down for 'Format' and select the type of information that is required. In this case, 'Technical View' was selected so that the report will show technical information about why Risks exists.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu/44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is PS1

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail

Type: Access Risk Analysis Action Level Permission Level

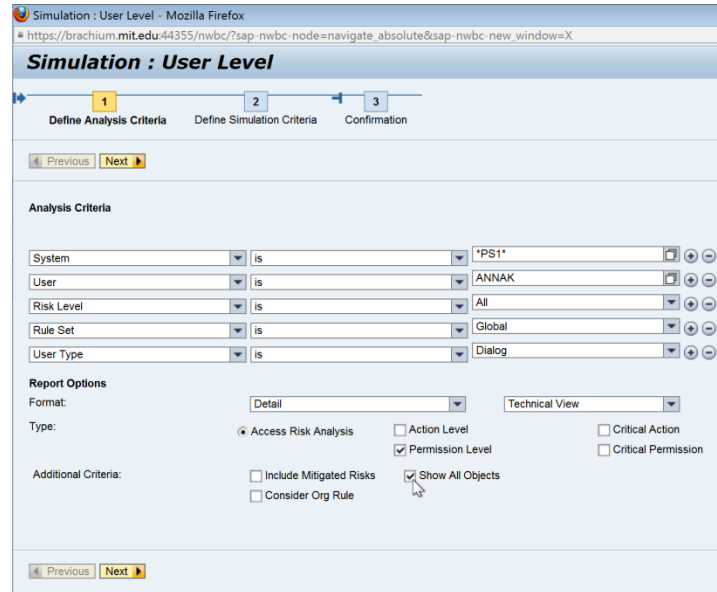
Additional Criteria: Include Mitigated Risks Consider Org Rule Show All Objects

Format: Business View Technical View Business View

Previous Next

12

In the 'Report Options' section, check 'Show All Objects' under 'Additional Criteria'. This will ensure that Users with no violations are explicitly listed as such (i.e. 'No Violations' will be listed as a line item for such users' IDs).



Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu/44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☒ Show All Objects ☐ Consider Org Rule

Previous Next

13

Analyze for SODs (excluding false positives).

In the 'Report Options' section, select the dial button for 'Access Risk Analysis'. Next, select the type of analysis that is required. The options available are:

Action Level: SODs at the transaction level (will include false positives eliminated at the authorization level)

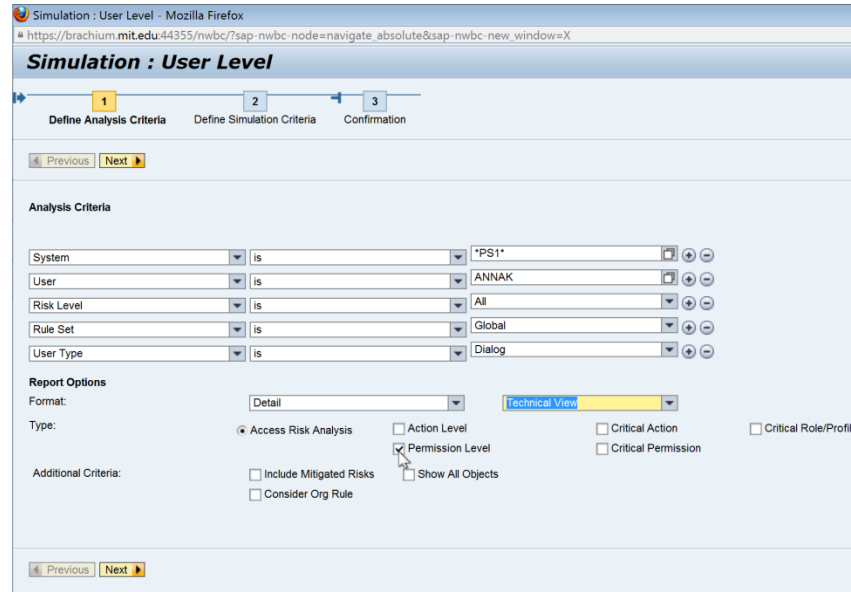
Permission Level: SODs at the authorization level

Critical Action: Critical transactions that limited/no users should have

Critical Permission: Critical authorizations that limited/no users should have

Critical Role/Profile: Critical Roles/Profiles that limited/no users should have

In this case, 'Permission Level' was selected so that the report will show SODs that exist at the Permission Level.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action ☐ Critical Role/Profile

☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☒ Show All Objects ☐ Consider Org Rule

Previous Next

14

The analysis criteria has now been defined. Click on 'Next' to define the simulation criteria.

Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

User is ANNAK

Risk Level is All

Rule Set is Global

User Type is Dialog

Report Options

Format: Detail Technical View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☒ Show All Objects ☐ Consider Org Rule

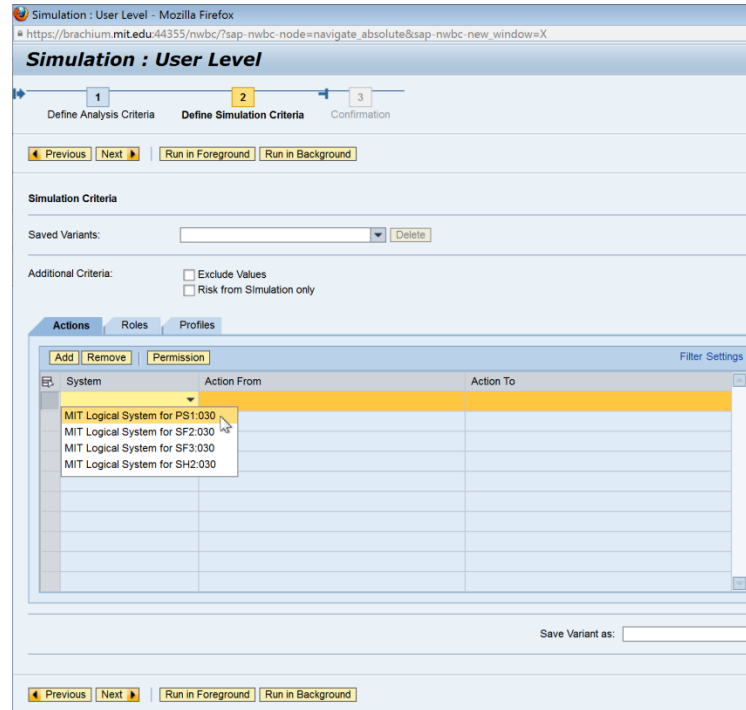
Previous Next

Simulation by Action
(transaction).

[illegible]

15A-2

Click the drop down on the 'System' field and select the system from which a transaction must be added. The user for the simulation exists in PS1; however, the simulation criteria can be from any system connected to GRC. In this case, PS1 is selected.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu/44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new-window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

System	Action From	Action To
MIT Logical System for PS1:030		
MIT Logical System for SF2:030		
MIT Logical System for SF3:030		
MIT Logical System for SH2:030		

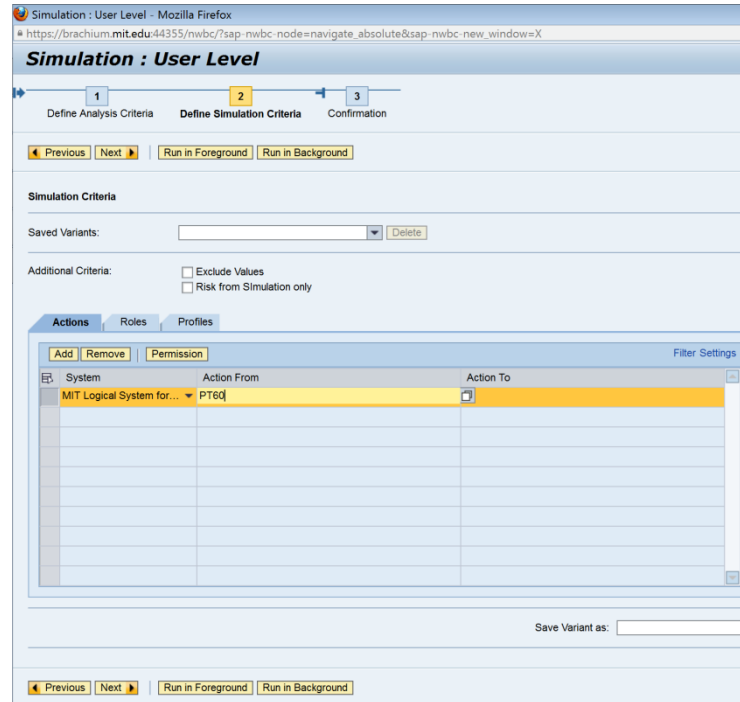
Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

15A-3

Add the transaction. In this case, 'PT60' was typed in. The search option can also be used to search for an Action. Please refer to the 'Search for Input Values' reference document (R3) for further information.

NOTE: If transactions should be excluded from the User's authorization for the simulation, the 'Exclude Values' box must be checked. Otherwise, any added transactions will be added to the User's authorizations for the simulation.



Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria:

☐ Exclude Values

☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

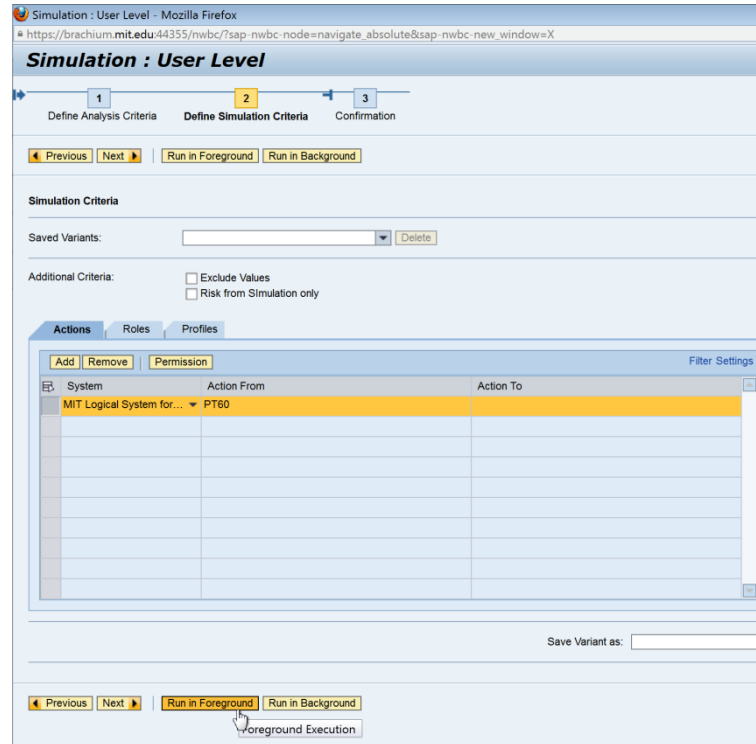
System	Action From	Action To
MIT Logical System for...	PT60	

Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

15A-4

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

System	Action From	Action To
MIT Logical System for...	PT60	

Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

Foreground Execution

15A-5

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Any orange line items represent risks occurring due to simulation criteria.

User ID: User ID of the user with a Risk that has been mitigated

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Last Executed On: Date of last execution of transaction

Execution Count: Number of times transaction was executed for a specified time period

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

Analysis Results

Result Set: Result Set 1 Go Previous Next Export Result Sets

Result

View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Detail Mitigate Risk Filter Setting

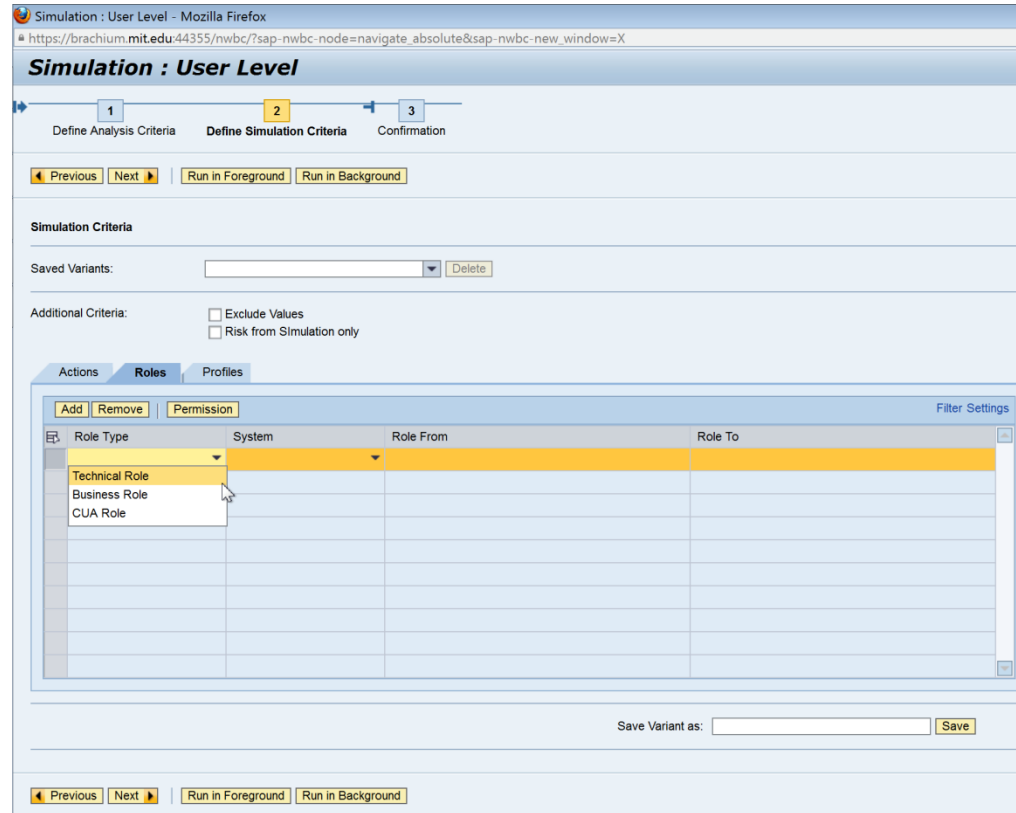
EP	User ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Last Executed On	Execution Count	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
	ANNAK	H017	000Q	Medium	HR04	ZZPS103001	PT60		0	P_ORGIN	AUTHC	W						
	ANNAK	H017	000Q	Medium	HR04	ZZPS103001	PT60		0	P_ORGIN	INFTY	2001						
	ANNAK	H017	000Q	Medium	HR04	ZZPS103001	PT60		0	P_ORGIN	INFTY	2002						
	ANNAK	H017	000Q	Medium	HR04	ZZPS103001	PT60		0	S_TCODE	TCD	PT60						
	ANNAK	H017	000Q	Medium	PY05	ZZPS103001	PT60		0	P_ORGIN	AUTHC	D		Z_MIT_ESS_TEM_USER_ACCESS	ZPRTL_C_LEARNER			
	ANNAK	H017	000Q	Medium	PY05	ZZPS103001	PT60		0	P_ORGIN	AUTHC	E		Z_MIT_ESS_TEM_USER_ACCESS	ZPRTL_C_LEARNER			
	ANNAK	H017	000Q	Medium	PY05	ZZPS103001	PT60		0	P_ORGIN	AUTHC	S		Z_MIT_ESS_TEM_USER_ACCESS	ZPRTL_C_LEARNER			
	ANNAK	H017	000Q	Medium	PY05	ZZPS103001	PT60		0	P_ORGIN	AUTHC	W						
	ANNAK	H017	000Q	Medium	PY05	ZZPS103001	PT60		0	P_ORGIN	AUTHC	W		Z_MIT_ESS_TEM_USER_ACCESS	ZPRTL_C_LEARNER			
	ANNAK	H017	000Q	Medium	PY05	ZZPS103001	PT60		0	P_PCLX	AUTHC	U						

Simulation by Role.

[illegible]

15B-2

Click the drop down on the 'Role Type' field and select 'Technical Role'. For role-based simulation criteria, unless otherwise advised, the selection will always be 'Technical Role'.



Simulation : User Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

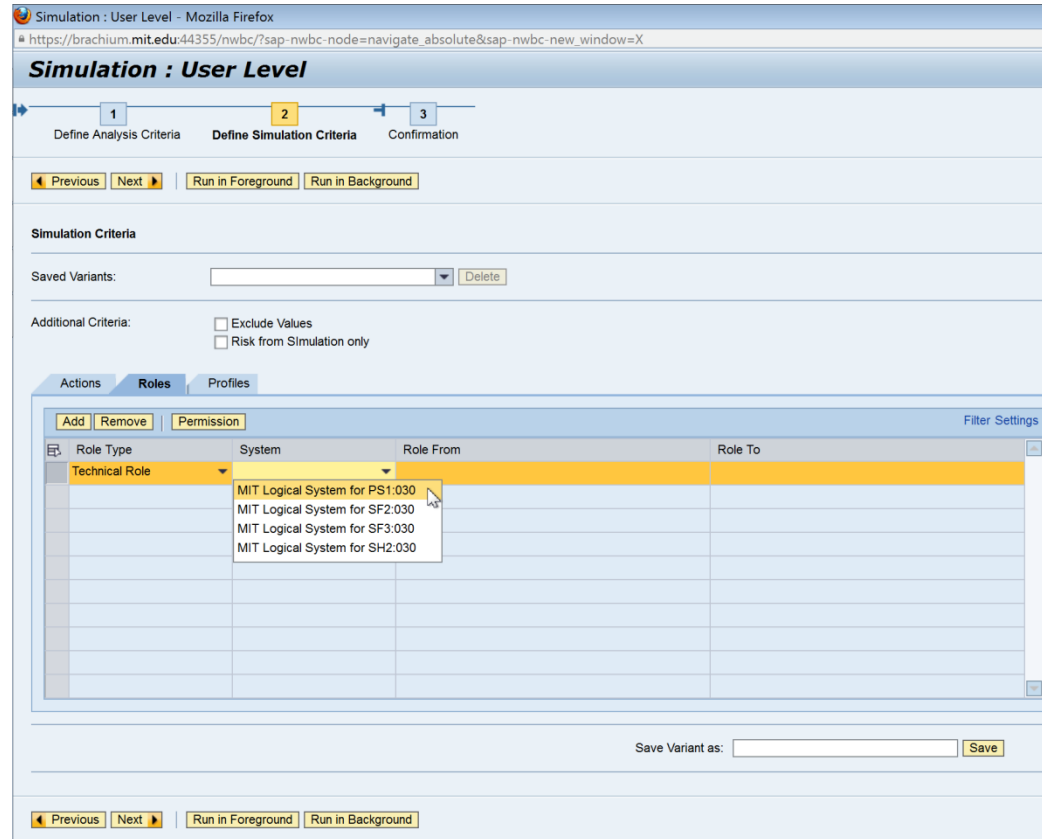
Role Type	System	Role From	Role To
Technical Role			
Business Role			
CUA Role			

Save Variant as: Save

Previous Next Run in Foreground Run in Background

15B-3

Click the drop down on the 'System' field and select the system from which a technical role must be added. The user for the simulation exists in PS1; however, the simulation criteria can be from any system connected to GRC. In this case, PS1 is selected.



Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

Role Type	System	Role From	Role To
Technical Role	MIT Logical System for PS1:030		
	MIT Logical System for SF2:030		
	MIT Logical System for SF3:030		
	MIT Logical System for SH2:030		

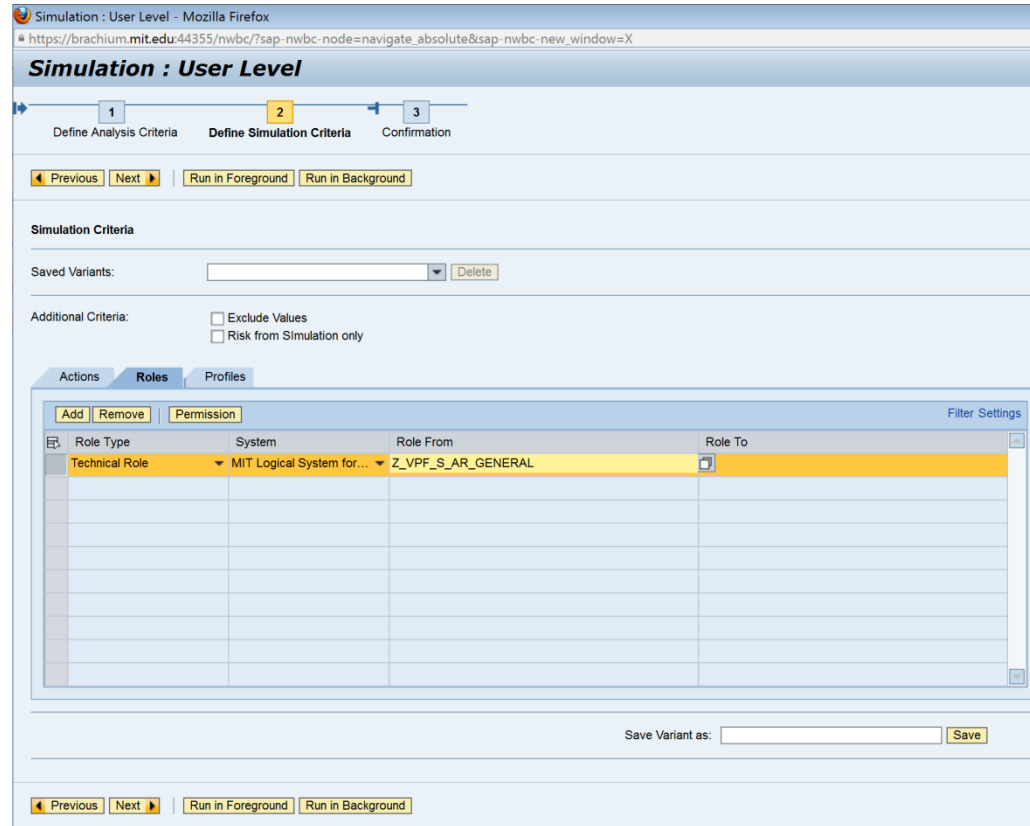
Save Variant as: Save

Previous Next Run in Foreground Run in Background

15B-4

Add the role. In this case, 'Z_VPF_S_AR_GENERAL' was typed in. The search option can also be used to search for a Role. Please refer to the 'Search for Input Values' reference document (R3) for further information.

NOTE: If roles should be excluded from the User's authorization for the simulation, the 'Exclude Values' box must be checked. Otherwise, any added roles will be added to the User's authorizations for the simulation.



Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

Role Type	System	Role From	Role To
Technical Role	MIT Logical System for...	Z_VPF_S_AR_GENERAL	

Save Variant as: Save

Previous Next Run in Foreground Run in Background

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.

[illegible]

15B-6

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Any orange line items represent risks occurring due to simulation criteria.

User ID: User ID of the user with a Risk that has been mitigated

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Last Executed On: Date of last execution of transaction

Execution Count: Number of times transaction was executed for a specified time period

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

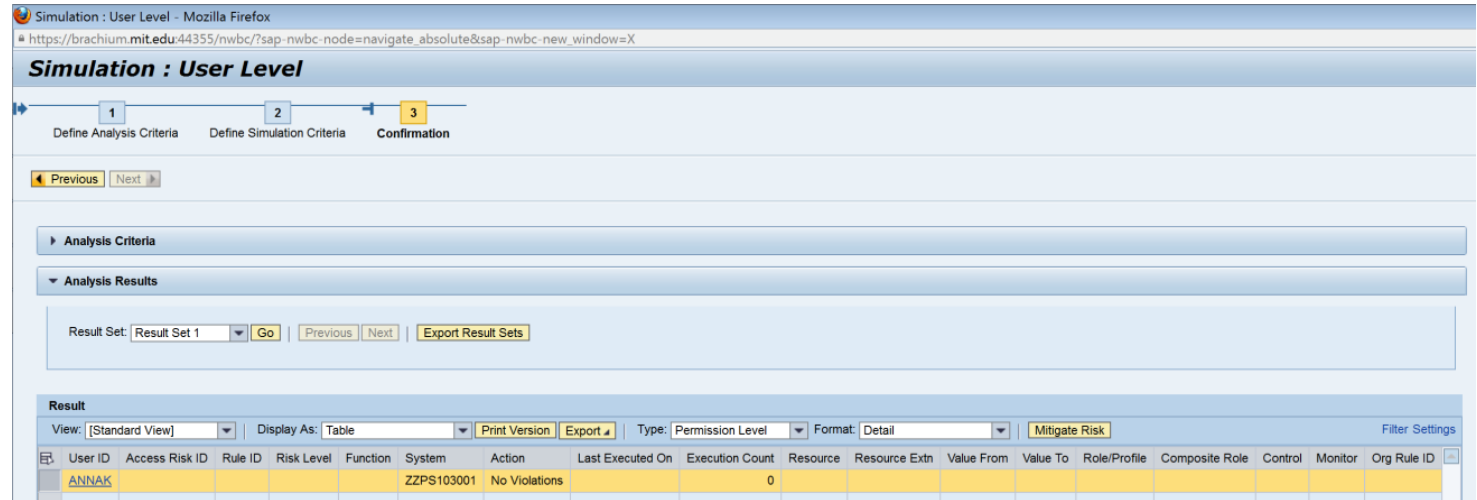
Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

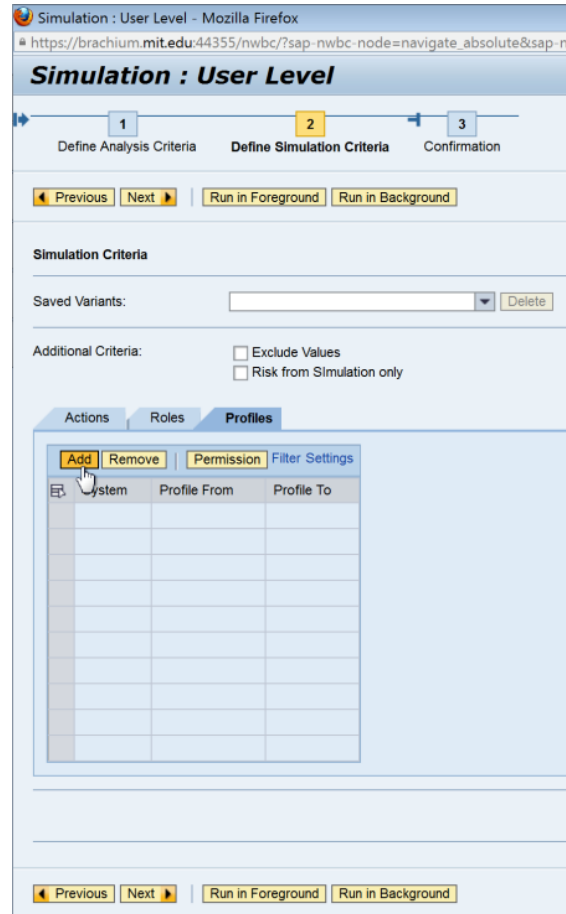
Monitor: The user ID of the Monitor responsible for the Mitigating Control



15C-1

Simulation by Profile.

On the 'Profiles' tab, click on 'Add' to define profile simulation criteria.



Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-node=...

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles **Profiles**

Add Remove Permission Filter Settings

System	Profile From	Profile To

Previous Next Run in Foreground Run in Background

15C-2

Click the drop down on the 'System' field and select the system from which a profile must be added. The user for the simulation exists in PS1; however, the simulation criteria can be from any system connected to GRC. In this case, PS1 is selected.

Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Profiles

Add Remove Permission Filter Settings

System	Profile From	Profile To
MIT Logical System for PS1:030		
MIT Logical System for SF2:030		
MIT Logical System for SF3:030		
MIT Logical System for SH2:030		

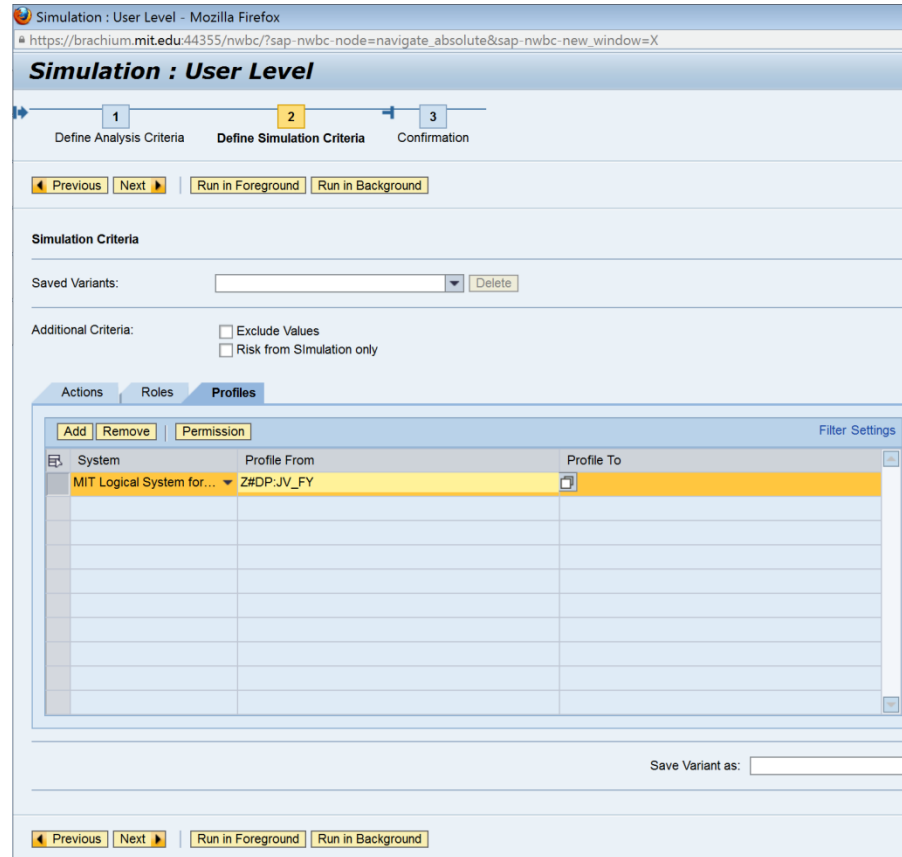
Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

15C-3

Add the profile. In this case, 'Z#DP:JV_FY' was typed in. The search option can also be used to search for a Profile. Please refer to the 'Search for Input Values' reference document (R3) for further information.

NOTE: If profiles should be excluded from the User's authorization for the simulation, the 'Exclude Values' box must be checked. Otherwise, any added profiles will be added to the User's authorizations for the simulation.



Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

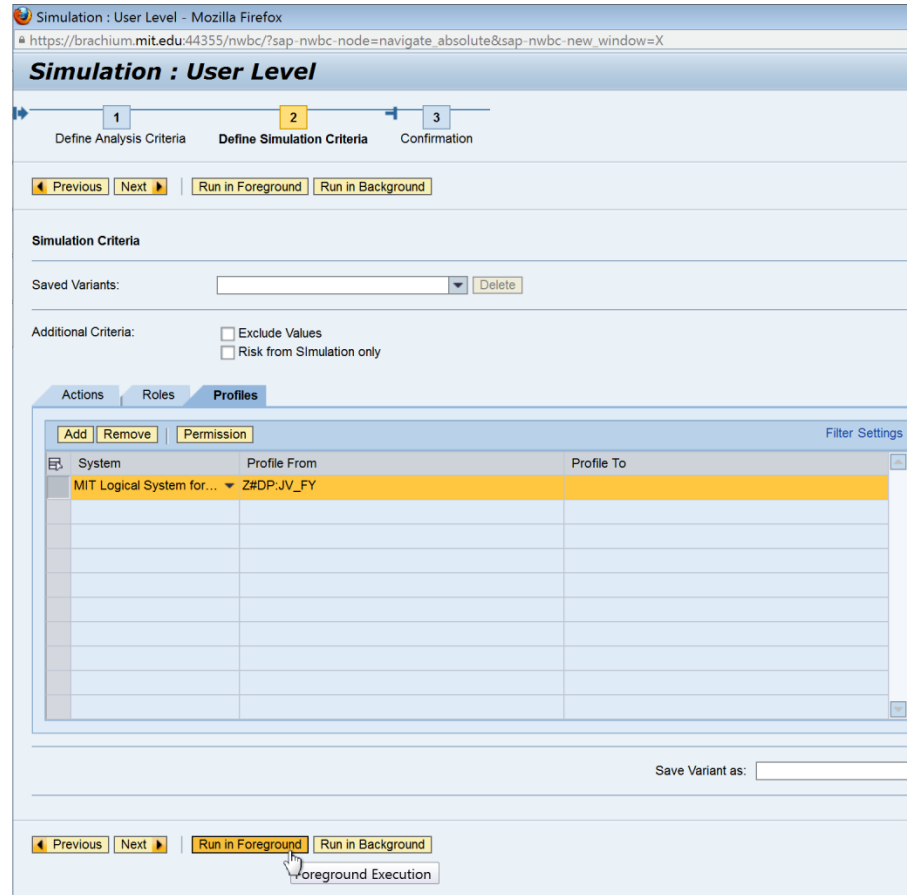
System	Profile From	Profile To
MIT Logical System for...	Z#DP:JV_FY	

Save Variant as:

Previous Next Run in Foreground Run in Background

15C-4

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Simulation : User Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : User Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Profiles

System	Profile From	Profile To
MIT Logical System for...	Z#DP-JV_FY	

Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

Foreground Execution

15C-5

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Any orange line items represent risks occurring due to simulation criteria.

User ID: User ID of the user with a Risk that has been mitigated

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Last Executed On: Date of last execution of transaction

Execution Count: Number of times transaction was executed for a specified time period

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

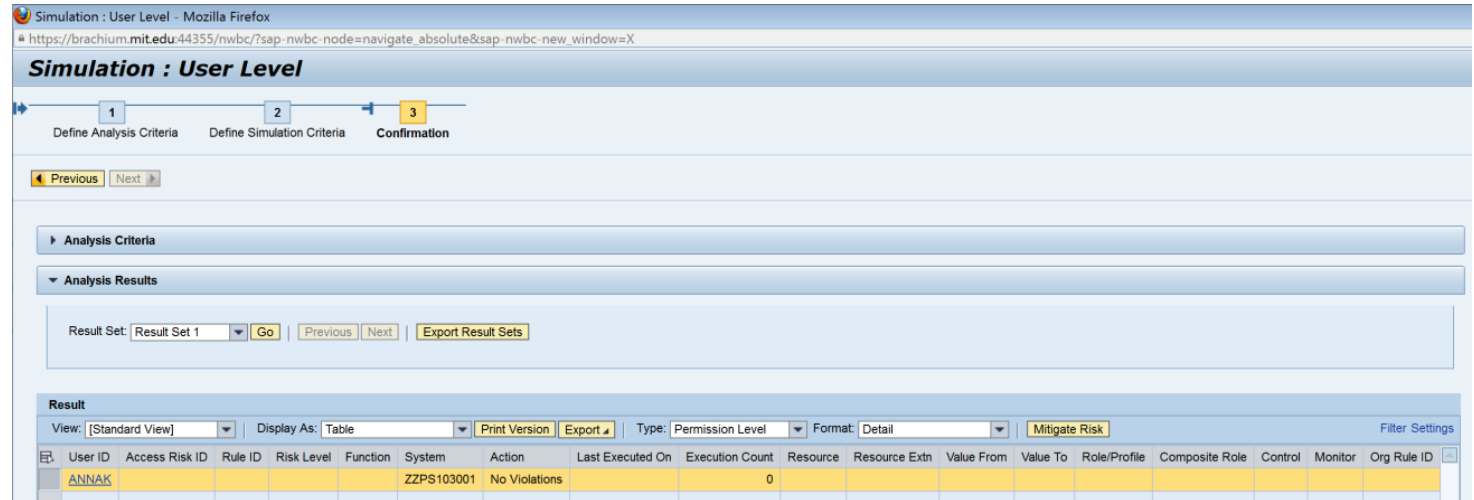
Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control



User ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Last Executed On	Execution Count	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
ANNAK					ZZPS103001	No Violations		0									

Job Aid 14 Role Level**USE**

This report can be used analyze for risk violations at the role level.

INFORMATION



SODs, critical actions or permissions.

RELATED PROCESSES

- Process 1: New or Amended Roles
- Process 2: Mitigation Analysis

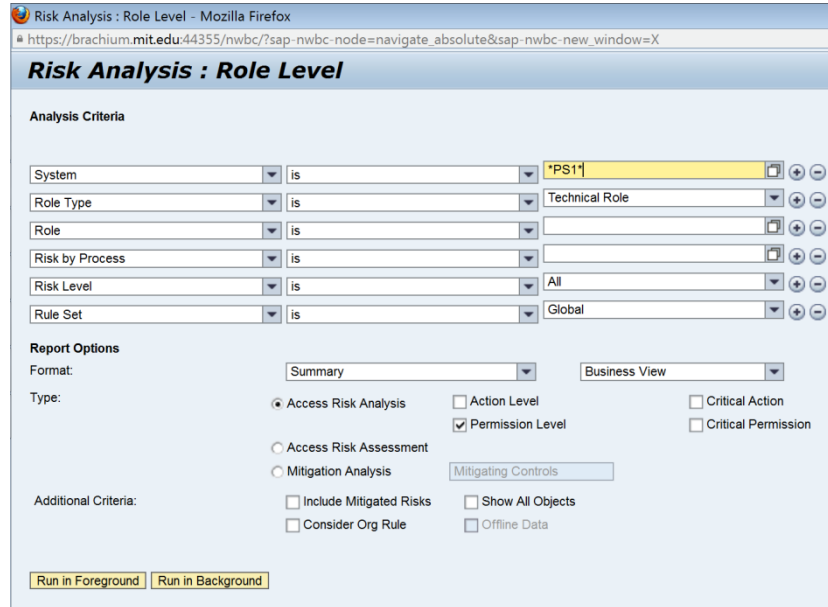
SPECIFIC SCENARIOS

- N/A

Step	Description	Screenshot
1	Navigate to the 'Access Management' tab.	 <p>Access Management</p>
2	Click on the 'Role Level' report located in the 'Access Risk Analysis' section.	

3

In the 'Analysis Criteria' section, select the System for which information is required. Since the desired selection is PS1 (Production), '*PS1*' was typed in as the system. The search option can also be used to search for the correct system. Please refer to the 'Search for Input Values' reference document (R3) for further information.



The screenshot shows a web application titled "Risk Analysis : Role Level" running in Mozilla Firefox. The browser address bar shows a URL from brachium.mit.edu. The interface is divided into several sections:

- Analysis Criteria:** A series of dropdown menus for filtering results. The "System" dropdown is set to "*PS1*", "Role Type" is "Technical Role", "Risk Level" is "All", and "Rule Set" is "Global".
- Report Options:**
 - Format:** A dropdown menu set to "Summary".
 - Business View:** A dropdown menu.
 - Type:** Radio buttons for "Access Risk Analysis" (selected), "Access Risk Assessment", and "Mitigation Analysis".
 - Additional Criteria:** Checkboxes for "Include Mitigated Risks", "Consider Org Rule", "Show All Objects", and "Offline Data".
 - Permission Level:** A checked checkbox.
 - Critical Action/Permission:** Unchecked checkboxes.
- Buttons:** "Run in Foreground" and "Run in Background" buttons at the bottom.

4

Analysis for a single technical role.

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Risk by Process' row to remove the row for that search criterion; this criterion is not needed for this scenario.

Risk Analysis : Role Level

Analysis Criteria

System	is	*PS1*	+	-
Role Type	is	Technical Role	+	-
Role	is		+	-
Risk by Process	is		+	-
Risk Level	is	All	+	-
Rule Set	is	Global	+	-

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action
- ☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission
- ☐ Mitigation Analysis

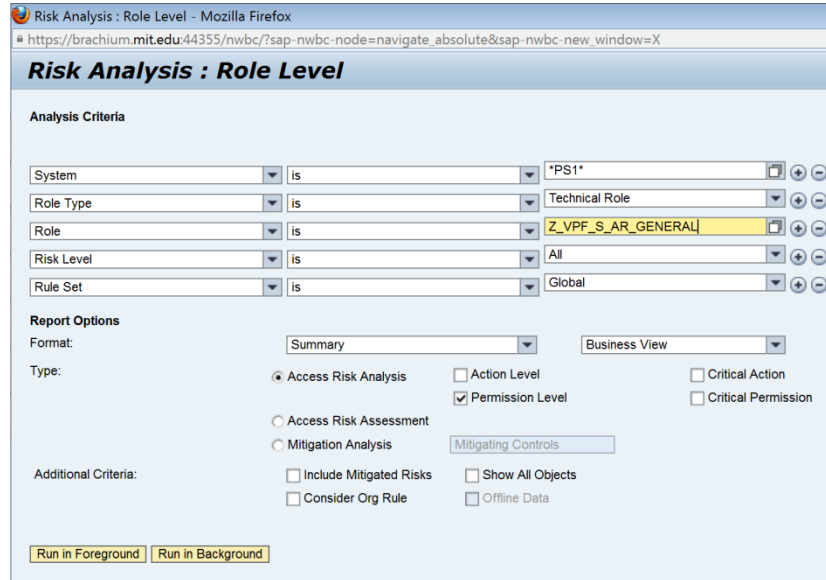
Additional Criteria:

- ☐ Include Mitigated Risks ☐ Show All Objects
- ☐ Consider Org Rule ☐ Offline Data

Run in Foreground Run in Background

5

Add the Role. In this case, 'Z_VPF_S_AR_GENERAL' was typed in. The search option can also be used to search for a role. Please refer to the 'Search for Input Values' reference document (R3) for further information.



The screenshot shows a web application titled "Risk Analysis : Role Level" in a Mozilla Firefox browser. The URL is https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X.

Risk Analysis : Role Level

Analysis Criteria

System	is	*PS1*
Role Type	is	Technical Role
Role	is	Z_VPF_S_AR_GENERAL
Risk Level	is	All
Rule Set	is	Global

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☐ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

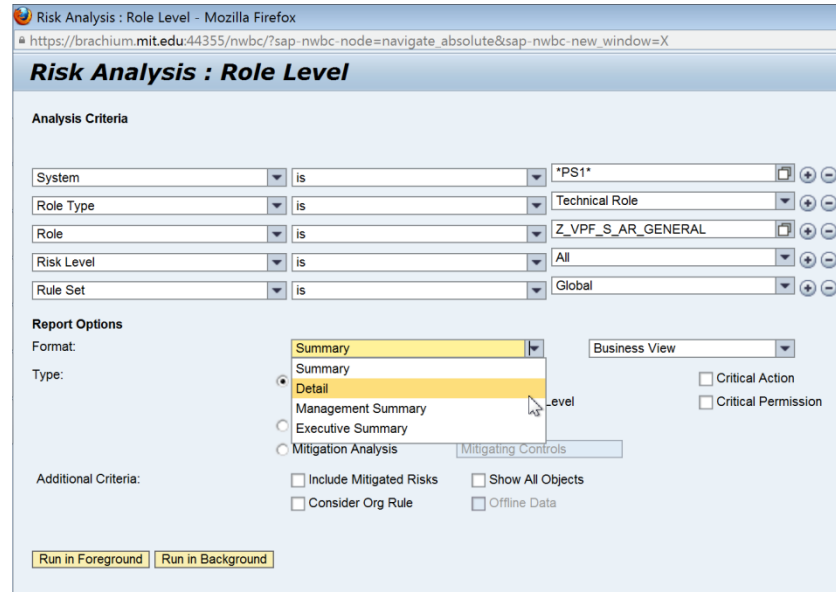
Additional Criteria:

Mitigating Controls

Run in Foreground Run in Background

6

In the 'Report Options' section, select the first drop down for 'Format' and select the level of detail at which information is required. In this case, 'Detail' was selected so that the report will show information about why Risks exists.



Risk Analysis : Role Level

Analysis Criteria

System: is *PS1*

Role Type: is Technical Role

Role: is Z_VPF_S_AR_GENERAL

Risk Level: is All

Rule Set: is Global

Report Options

Format: Summary (selected)

Type: Detail (selected)

Business View

Additional Criteria:

☐ Include Mitigated Risks ☐ Show All Objects

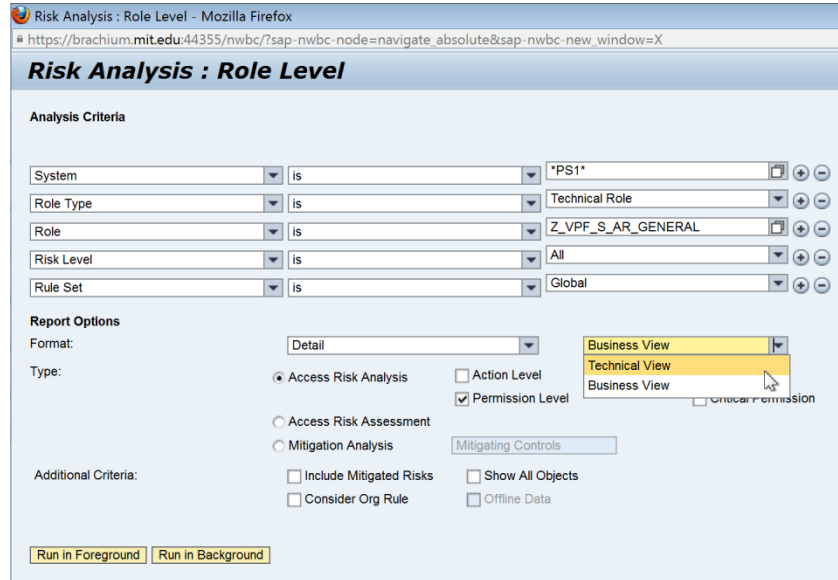
☐ Consider Org Rule ☐ Offline Data

☐ Critical Action ☐ Critical Permission

Run in Foreground Run in Background

7

In the 'Report Options' section, select the second drop down for 'Format' and select the type of information that is required. In this case, 'Technical View' was selected so that the report will show technical information about why Risks exists.



Risk Analysis : Role Level

Analysis Criteria

System: is PS1

Role Type: is Technical Role

Role: is Z_VPF_S_AR_GENERAL

Risk Level: is All

Rule Set: is Global

Report Options

Format: Detail

Type: ☒ Access Risk Analysis ☐ Action Level ☒ Permission Level ☐ Critical Permission

☐ Access Risk Assessment

☐ Mitigation Analysis

Mitigating Controls

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects ☐ Consider Org Rule ☐ Offline Data

Run in Foreground Run in Background

8

Analyze for SODs based on user ID.

In the 'Report Options' section, select the first dial button for 'Access Risk Analysis'. Next, select the type of analysis that is required. The options available are:

Action Level: SODs at the transaction level (will include false positives eliminated at the authorization level)

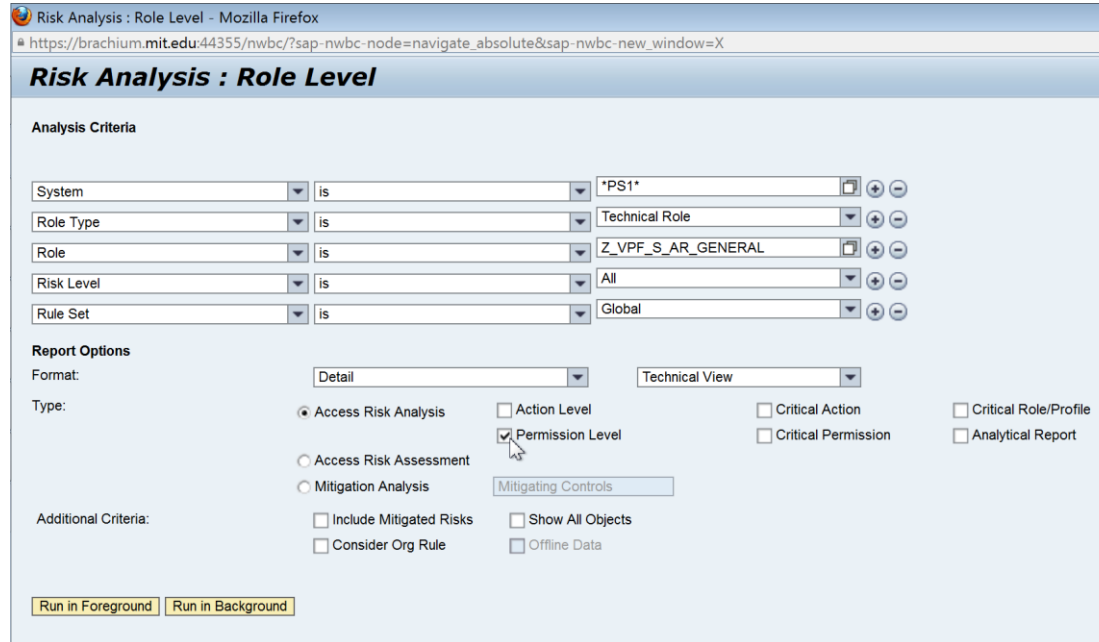
Permission Level: SODs at the authorization level

Critical Action: Critical transactions that limited/no users should have

Critical Permission: Critical authorizations that limited/no users should have

Critical Role/Profile: Critical Roles/Profiles that limited/no users should have

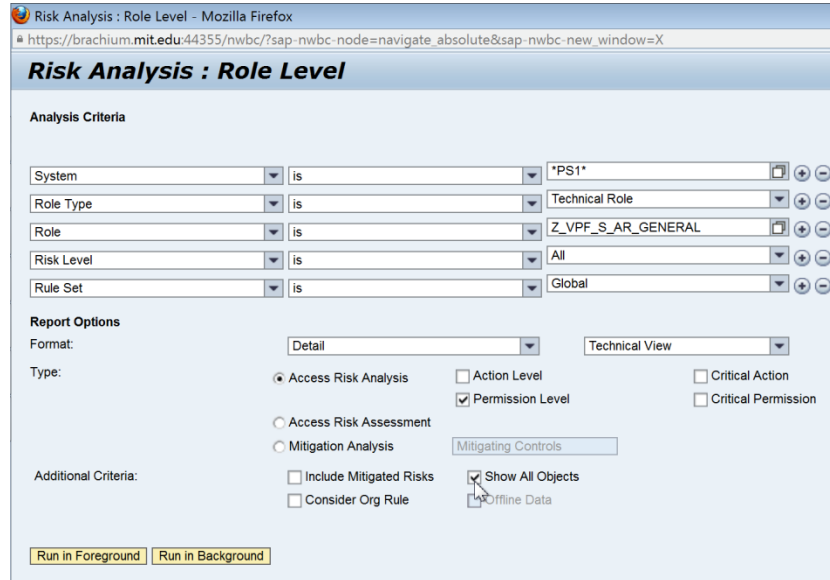
In this case, 'Permission Level' was selected so that the report will show SODs that exist at the Permission Level.



The screenshot shows the 'Risk Analysis : Role Level' web application interface. The browser title is 'Risk Analysis : Role Level - Mozilla Firefox' and the URL is 'https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X'. The page has a blue header with the title 'Risk Analysis : Role Level'. Below the header is the 'Analysis Criteria' section with several dropdown menus: System (is), Role Type (is), Role (is), Risk Level (is), and Rule Set (is). To the right of these are input fields for '*PS1*', 'Technical Role', 'Z_VPF_S_AR_GENERAL', 'All', and 'Global', each with a search icon and expand/collapse buttons. Below this is the 'Report Options' section. It has a 'Format' dropdown set to 'Detail' and a 'Technical View' dropdown. Under 'Type:', there are three radio buttons: 'Access Risk Analysis' (selected), 'Access Risk Assessment', and 'Mitigation Analysis'. To the right of these are four checkboxes: 'Action Level', 'Permission Level' (checked), 'Critical Action', and 'Critical Permission'. Further right are two more checkboxes: 'Critical Role/Profile' and 'Analytical Report'. Below these is a 'Mitigating Controls' button. Under 'Additional Criteria:', there are four checkboxes: 'Include Mitigated Risks', 'Consider Org Rule', 'Show All Objects', and 'Offline Data'. At the bottom are two buttons: 'Run in Foreground' and 'Run in Background'.

9

In the 'Report Options' section, check 'Show All Objects' under 'Additional Criteria'. This will ensure that Users with no violations are explicitly listed as such (i.e. 'No Violations' will be listed as a line item for such users' IDs).

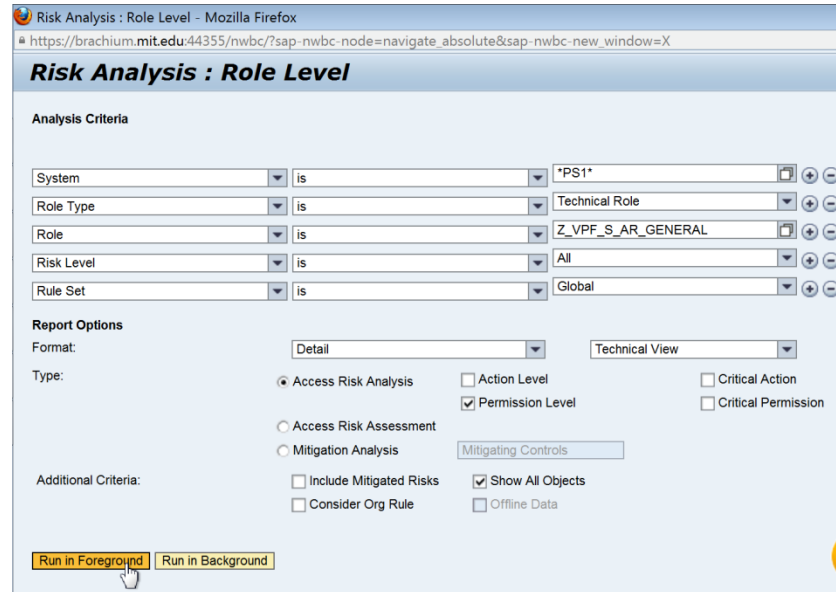


The screenshot shows a web application titled "Risk Analysis : Role Level" in a Mozilla Firefox browser. The address bar shows a URL from brachium.mit.edu. The interface is divided into several sections:

- Analysis Criteria:** Contains five rows of dropdown menus for System, Role Type, Role, Risk Level, and Rule Set. Each row has a search icon and expand/collapse buttons. The values are: System (is), Role Type (is), Role (is), Risk Level (is), and Rule Set (is). There are also text input fields for "PS1", "Technical Role", "Z_VPF_S_AR_GENERAL", and "Global".
- Report Options:**
 - Format:** Two dropdown menus set to "Detail" and "Technical View".
 - Type:** A group of radio buttons and checkboxes. "Access Risk Analysis" is selected. Other options include "Access Risk Assessment", "Mitigation Analysis", "Action Level", "Permission Level" (checked), "Critical Action", and "Critical Permission".
 - Additional Criteria:** A group of checkboxes. "Include Mitigated Risks" and "Consider Org Rule" are unchecked. "Show All Objects" is checked. There is also an unchecked checkbox for "Offline Data".
 - Mitigating Controls:** A button.
 - Buttons:** "Run in Foreground" and "Run in Background" at the bottom.

10

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Risk Analysis : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : Role Level

Analysis Criteria

System	is	*PS1*
Role Type	is	Technical Role
Role	is	Z_VPF_S_AR_GENERAL
Risk Level	is	All
Rule Set	is	Global

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

Additional Criteria:

Run in Foreground Run in Background

11

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Role Name: SAP role name

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Risk Analysis : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Multiple Selection

Analysis Criteria

Analysis Results

Result Set: Result Set 1 [Go] [Previous] [Next] [Export Result Sets]

Result

View: [Standard View] | Display As: Table | [Print Version] [Export] | Type: Permission Level | Format: Detail | [Mitigate Risk] [Filter Settings]

Role Name	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
Z VPF S AR GENERAL					ZZPS103001	No Violations									

Job Aid 15 Role Level Simulation**USE**

This report can be used carry out simulations at the role level for the purpose of understanding whether the addition or removal of certain access either creates or eliminates SODs and other risks.

INFORMATION

New risk violations that will result due to changes to roles.

RELATED PROCESSES

- Process 1: New or Amended Roles
- Process 2: Mitigation Analysis

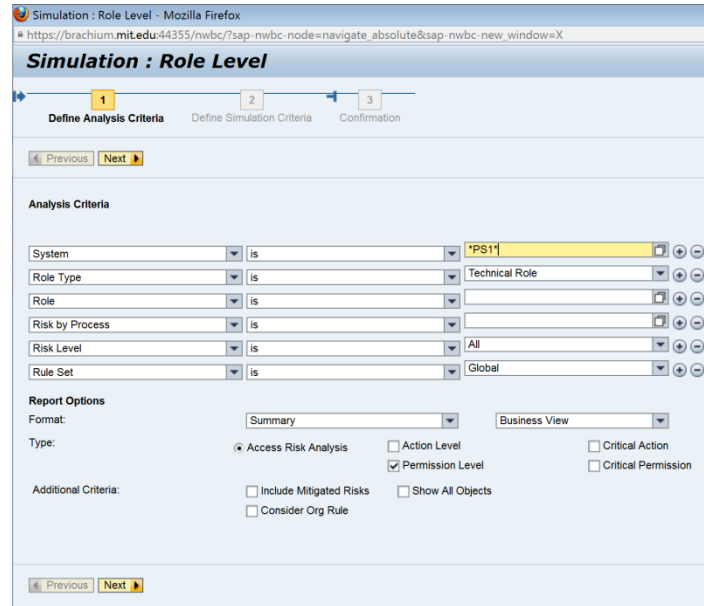
SPECIFIC SCENARIOS

- Step 15A: Simulation by Action (transaction).
- Step 15B: Simulation by Role.
- Step 15C: Simulation by Profile.

Step	Description	Screenshot
1	Navigate to the 'Access Management' tab.	 <p>Access Management</p>
2	Click on the 'Role Level Simulation' report located in the 'Access Risk Analysis' section.	 <p>Access Risk Analysis</p> <p>Analyze systems for access risks across user, role, HR object and organization levels</p> <p>Quick Links</p> <ul style="list-style-type: none"> User Level User Level Simulation Role Level <u>Role Level Simulation</u> Profile Level Profile Level Simulation HR Objects HR Objects Simulation

3

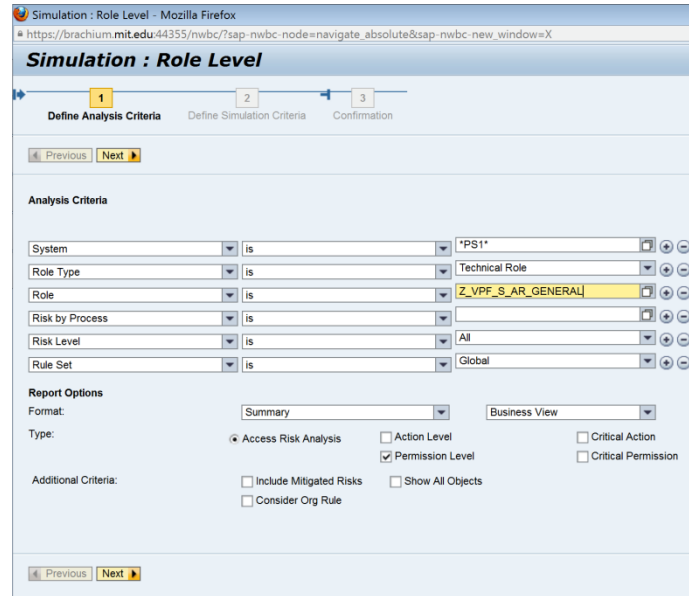
In the 'Analysis Criteria' section, select the System for which information is required. Since the desired selection is PS1 (Production), '*PS1*' was typed in as the system. The search option can also be used to search for the correct system. Please refer to the 'Search for Input Values' reference document (R3) for further information.



4

Run a simulation for a single Role.

Add the Role. In this case, 'Z_VPF_S_AR_GENERAL' was typed in. The search option can also be used to search for an ID. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap: nwbc: node=navigate_absolute&sap: nwbc: new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Role Type is Technical Role

Role is Z_VPF_S_AR_GENERAL

Risk by Process is

Risk Level is All

Rule Set is Global

Report Options

Format: Summary Business View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

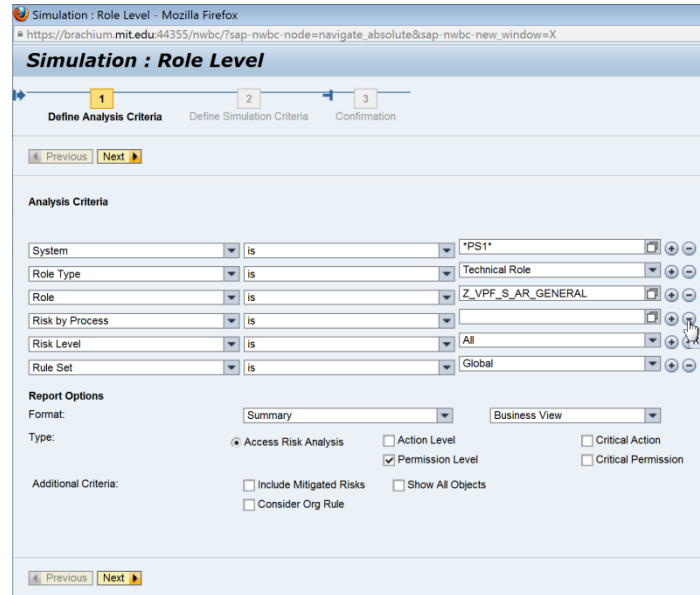
☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects ☐ Consider Org Rule

Previous Next

5

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Risk by Process' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System	is	*PS1*	-
Role Type	is	Technical Role	-
Role	is	Z_VPF_S_AR_GENERAL	-
Risk by Process	is		-
Risk Level	is	All	-
Rule Set	is	Global	-

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
- ☐ Action Level
- ☐ Critical Action
- ☒ Permission Level
- ☐ Critical Permission

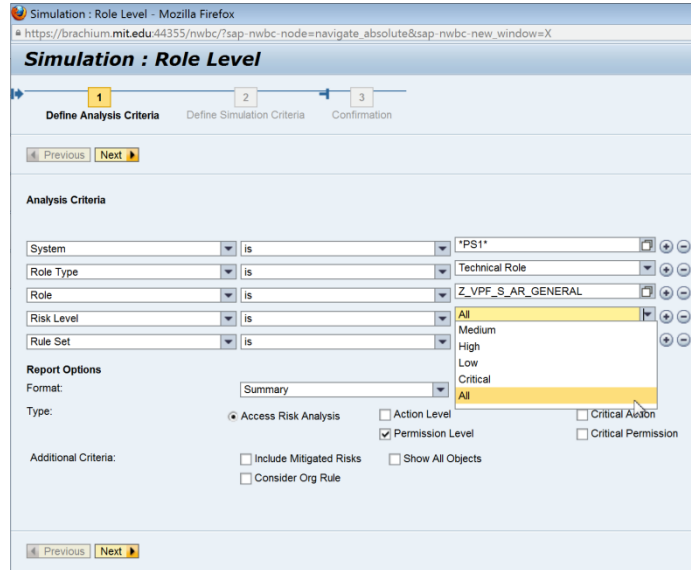
Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Show All Objects
- ☐ Consider Org Rule

Previous Next

7

In the 'Analysis Criteria' section, select the 'Risk Level' drop down and select the risk level for which information is required. In this case, 'All' was selected so that the report evaluates for all risk levels.



Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System: is *PS1

Role Type: is Technical Role

Role: is Z_VPF_S_AR_GENERAL

Risk Level: is **All** (Medium, High, Critical)

Rule Set: is

Report Options

Format: Summary

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

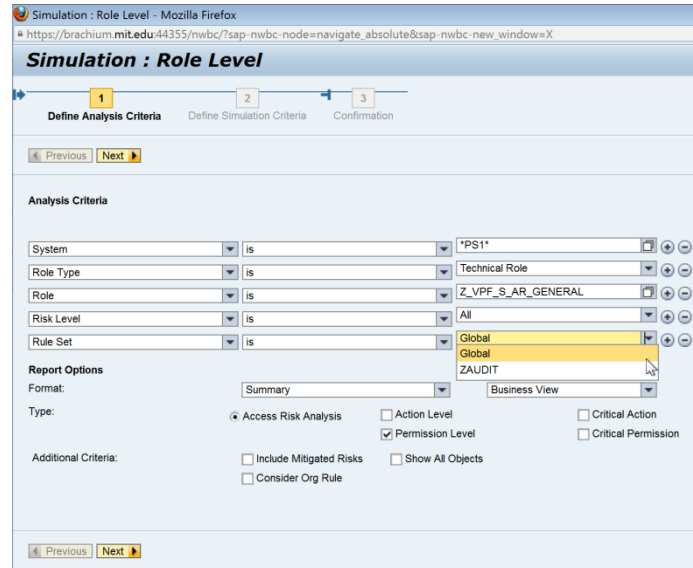
☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects ☐ Consider Org Rule

Previous Next

8

In the 'Analysis Criteria' section, select the 'Rule Set' drop down and select the Rule Set against which the report should be executed. In this case, 'Global', the MIT Rule Set, was selected. Unless advised otherwise, the selection should always be 'Global' for this report.



Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Role Type is Technical Role

Role is Z_VPF_S_AR_GENERAL

Risk Level is All

Rule Set is Global

Report Options

Format: Summary Business View

Type:
 ☒ Access Risk Analysis
 ☐ Action Level
 ☐ Critical Action

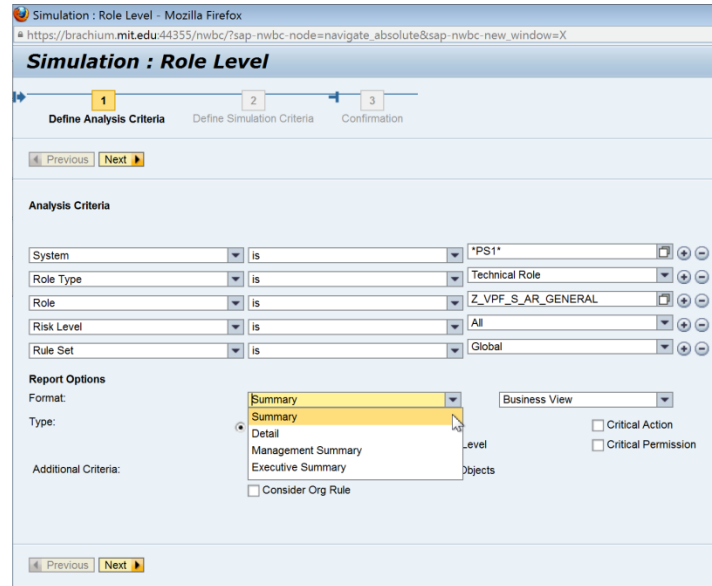
☒ Permission Level
 ☐ Critical Permission

Additional Criteria:
 ☐ Include Mitigated Risks
 ☐ Show All Objects
 ☐ Consider Org Rule

Previous Next

10

In the 'Report Options' section, select the first drop down for 'Format' and select the level of detail at which information is required. In this case, the default setting, 'Summary', was not changed.



Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Role Type is Technical Role

Role is Z_VPF_S_AR_GENERAL

Risk Level is All

Rule Set is Global

Report Options

Format: Summary Business View

Type: Summary
Detail
Management Summary
Executive Summary
Consider Org Rule

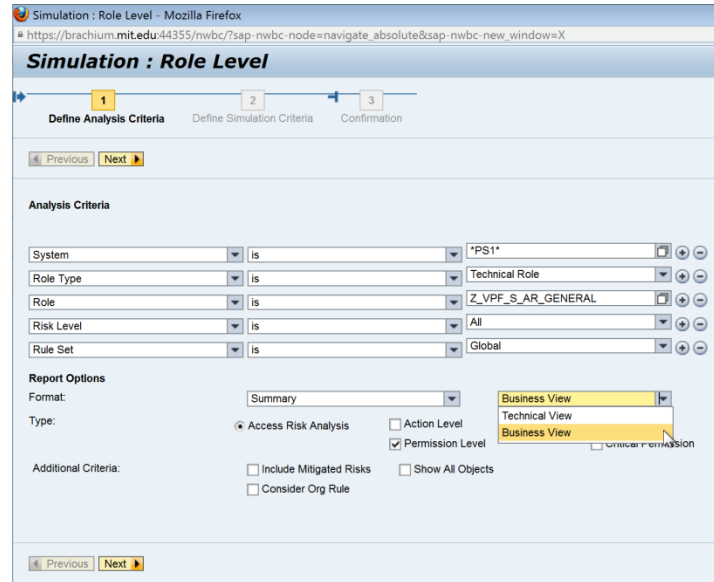
Level
Objects

Critical Action
Critical Permission

Previous Next

11

In the 'Report Options' section, select the second drop down for 'Format' and select the type of information that is required. In this case, the default setting, 'Business View', was not changed.



Simulation : Role Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Role Type is Technical Role

Role is Z_VPF_S_AR_GENERAL

Risk Level is All

Rule Set is Global

Report Options

Format: Summary

Type: ☒ Access Risk Analysis ☐ Action Level ☒ Permission Level ☐ Show All Objects

Additional Criteria: ☐ Include Mitigated Risks ☐ Consider Org Rule

Business View Technical View Business View

Previous Next

13

Analyze for SODs (excluding false positives).

In the 'Report Options' section, select the dial button for 'Access Risk Analysis'. Next, select the type of analysis that is required. The options available are:

Action Level: SODs at the transaction level (will include false positives eliminated at the authorization level)

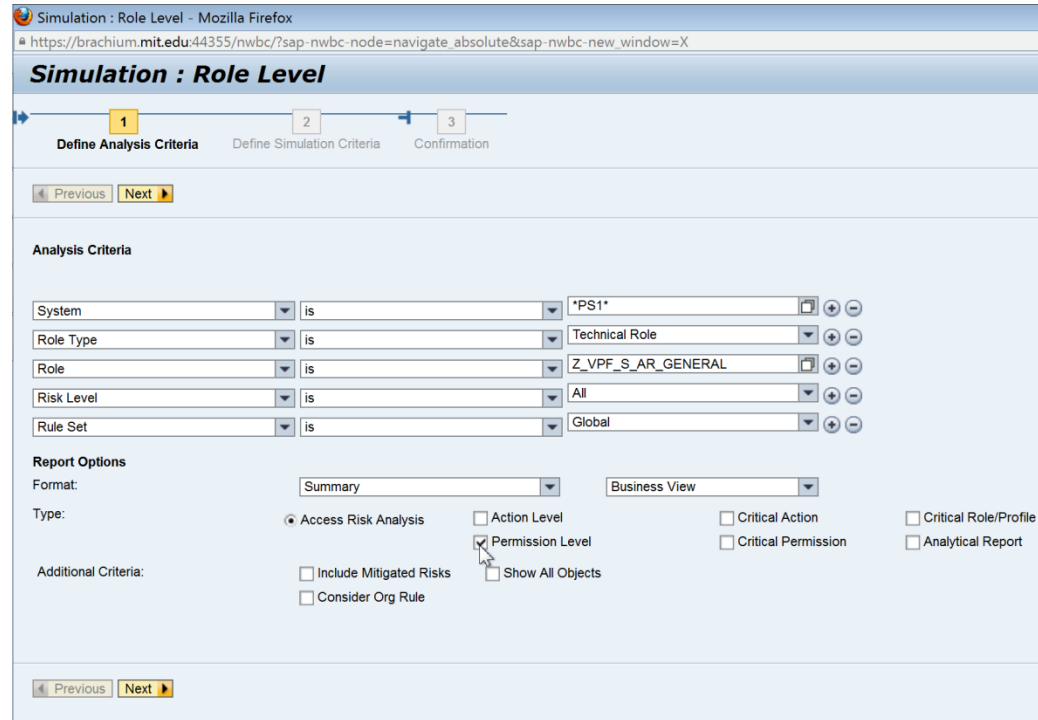
Permission Level: SODs at the authorization level

Critical Action: Critical transactions that limited/no users should have

Critical Permission: Critical authorizations that limited/no users should have

Critical Role/Profile: Critical Roles/Profiles that limited/no users should have

In this case, 'Permission Level' was selected so that the report will show SODs that exist at the Permission Level.



Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Role Type is Technical Role

Role is Z_VPF_S_AR_GENERAL

Risk Level is All

Rule Set is Global

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
- ☐ Action Level
- ☐ Critical Action
- ☐ Critical Role/Profile
- ☒ Permission Level
- ☐ Critical Permission
- ☐ Analytical Report

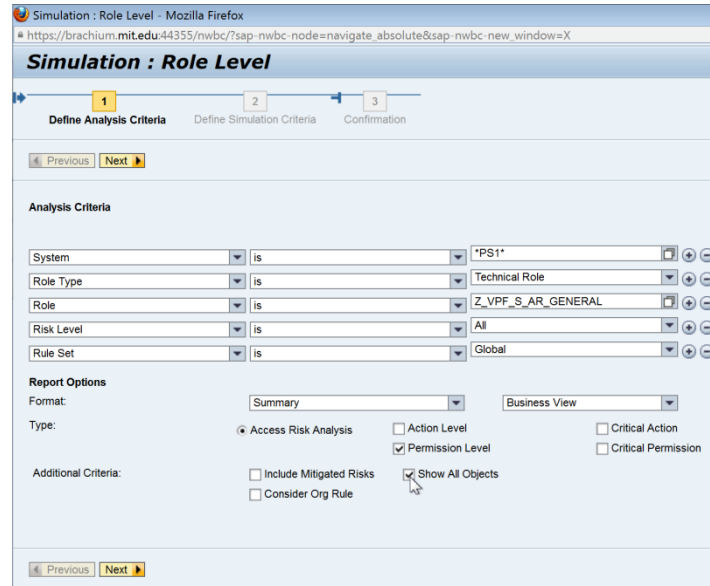
Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Consider Org Rule
- ☐ Show All Objects

Previous Next

12

In the 'Report Options' section, check 'Show All Objects' under 'Additional Criteria'. This will ensure that Users with no violations are explicitly listed as such (i.e. 'No Violations' will be listed as a line item for such users' IDs).



Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Role Type is Technical Role

Role is Z_VPF_S_AR_GENERAL

Risk Level is All

Rule Set is Global

Report Options

Format: Summary Business View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

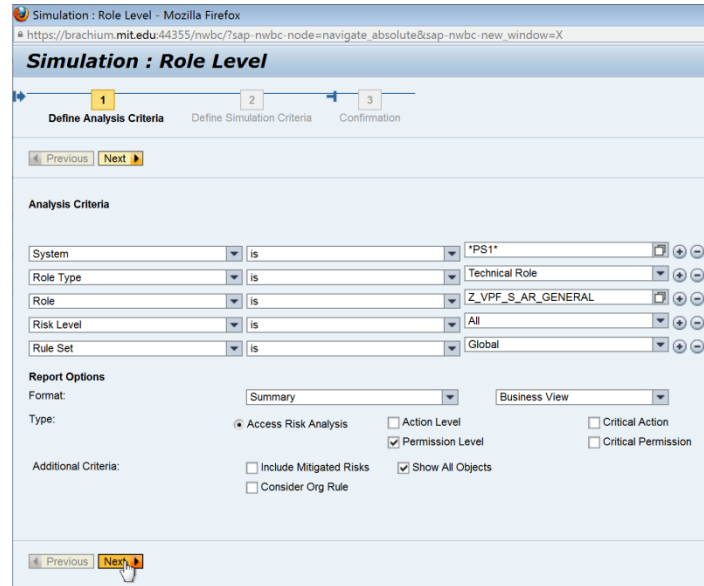
☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☒ Show All Objects ☐ Consider Org Rule

Previous Next

14

The analysis criteria has now been defined. Click on 'Next' to define the simulation criteria.



Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/7sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Role Type is Technical Role

Role is Z_VPF_S_AR_GENERAL

Risk Level is All

Rule Set is Global

Report Options

Format: Summary Business View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☒ Show All Objects ☐ Consider Org Rule

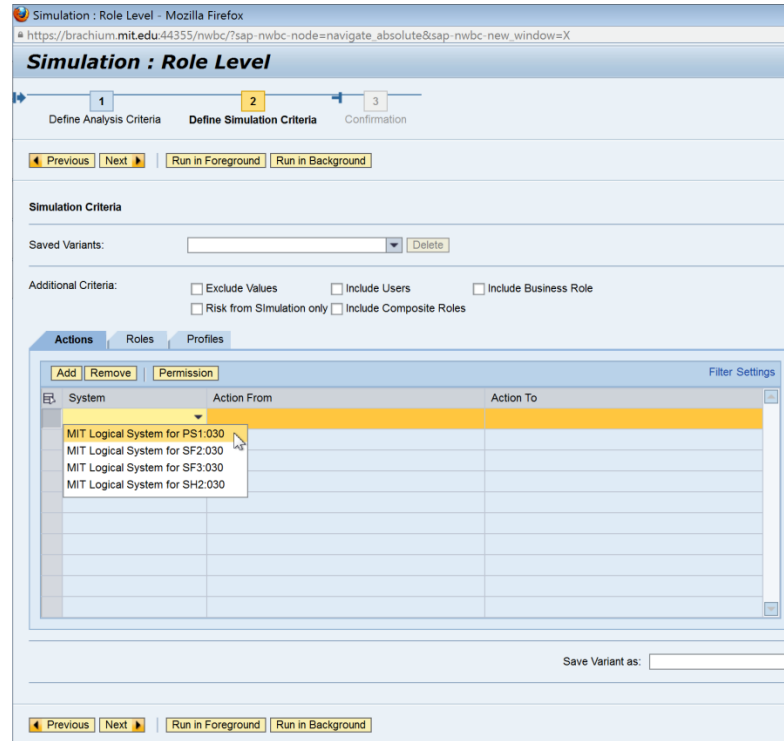
Previous Next

Simulation by Action
(transaction).

[illegible]

15A-2

Click the drop down on the 'System' field and select the system from which a transaction must be added. The user for the simulation exists in PS1; however, the simulation criteria can be from any system connected to GRC. In this case, PS1 is selected.



Simulation : Role Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria:

☐ Exclude Values ☐ Include Users ☐ Include Business Role

☐ Risk from Simulation only ☐ Include Composite Roles

Actions Roles Profiles

Add Remove Permission Filter Settings

System	Action From	Action To
MIT Logical System for PS1:030		
MIT Logical System for SF2:030		
MIT Logical System for SF3:030		
MIT Logical System for SH2:030		

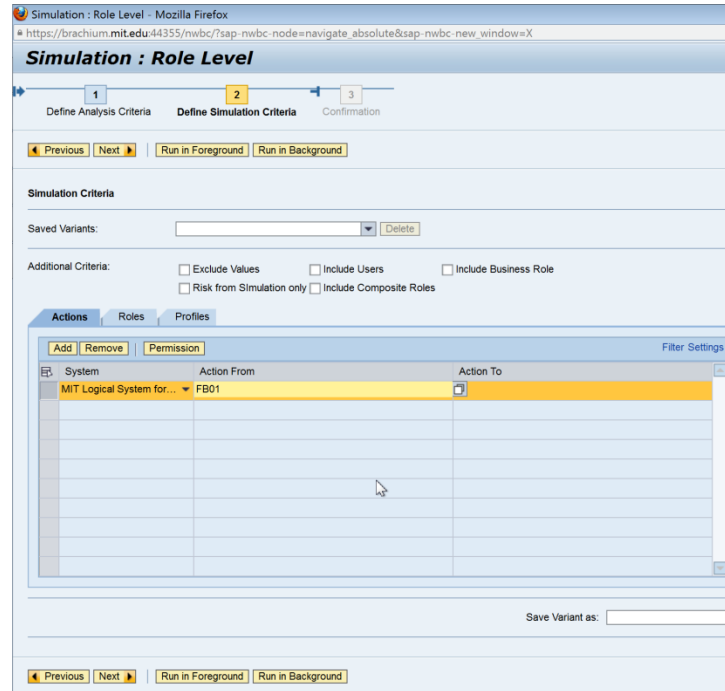
Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

15A-3

Add the transaction. In this case, 'FB01' was typed in. The search option can also be used to search for an Action. Please refer to the 'Search for Input Values' reference document (R3) for further information.

NOTE: If transactions should be excluded from the Role for the simulation, the 'Exclude Values' box must be checked. Otherwise, any added transactions will be added to the Role for the simulation.



Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria:

- ☐ Exclude Values
- ☐ Include Users
- ☐ Include Business Role
- ☐ Risk from Simulation only
- ☐ Include Composite Roles

Actions Roles Profiles

Add Remove Permission Filter Settings

System	Action From	Action To
MIT Logical System for...	FB01	<input type="checkbox"/>

Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.

304

15A-5

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Any orange line items represent risks occurring due to simulation criteria.

Role Name: SAP role name

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Risk Description: Business description of the Access Risk

System: The system in which the role is assigned to the user

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Action: SAP transaction

Action Description: SAP transaction name

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

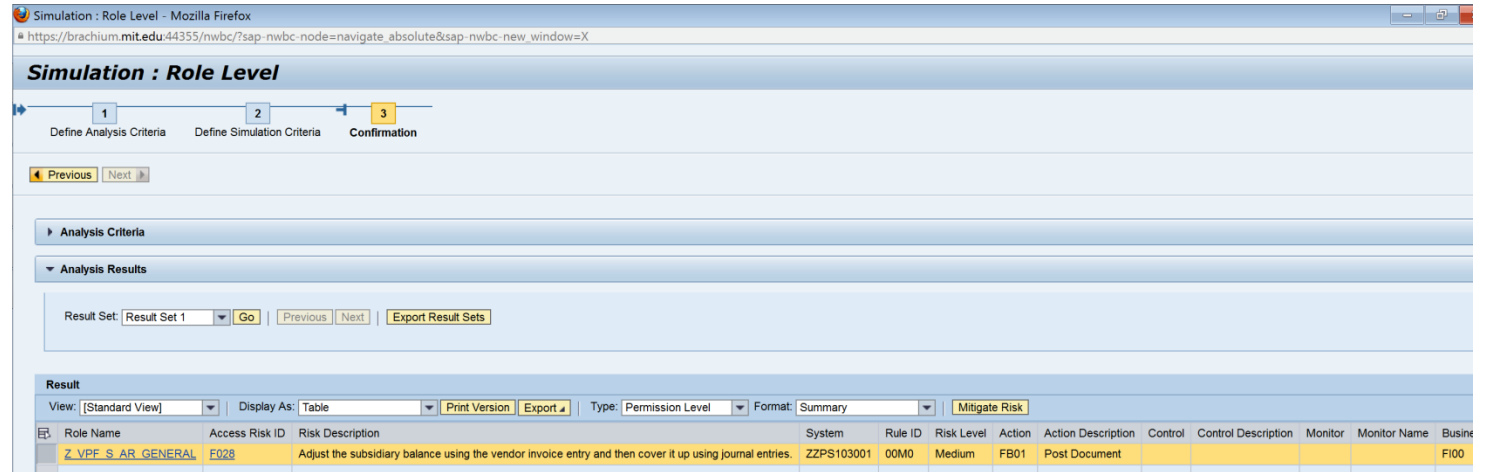
Control Description: Business description of the Mitigating Control

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Monitor Name: Name tied to the user ID of the Monitor

Business Process: The 4-digit ID representing the Business Process to which the Access Risk has been mapped in the standard rule set

Business Process Description: The business description for the Business Process to which the Access Risk has been mapped in the standard rule set



Role Name	Access Risk ID	Risk Description	System	Rule ID	Risk Level	Action	Action Description	Control	Control Description	Monitor	Monitor Name	Business Process
Z_VPF_S_AR_GENERAL	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	00M0	Medium	FB01	Post Document					F100

Simulation by Role.

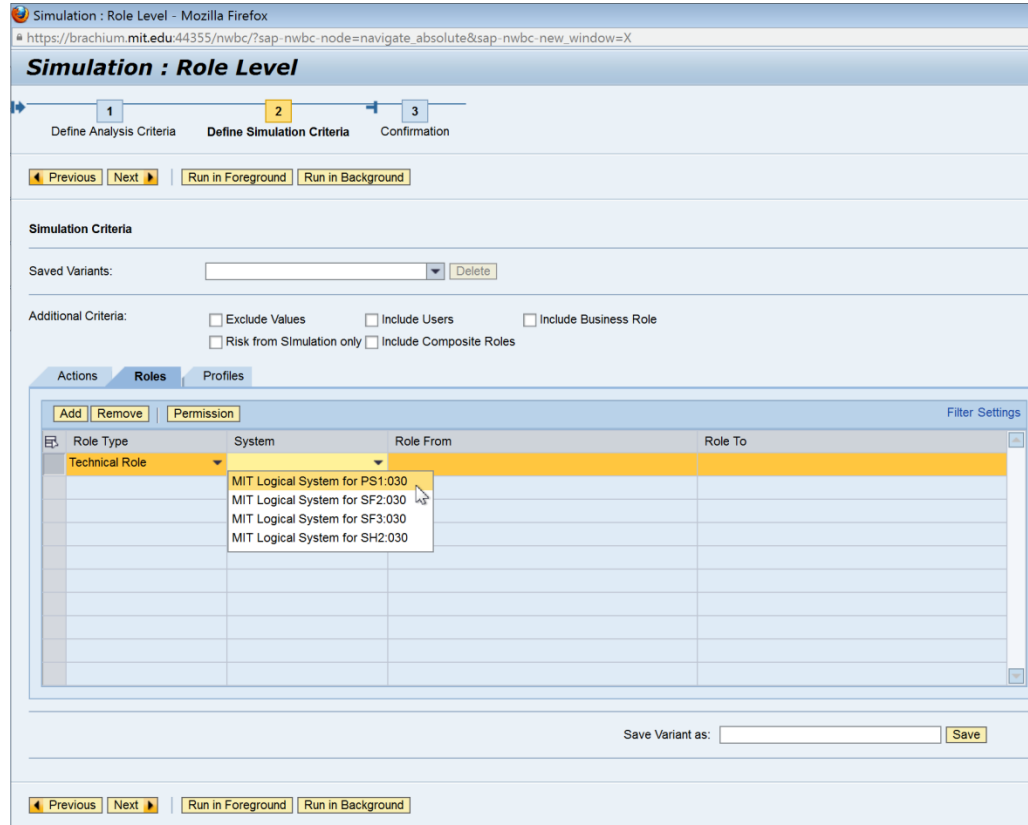
[illegible]

Click the drop down on the 'Role Type' field and select 'Technical Role'. For role-based simulation criteria, unless otherwise advised, the selection will always be 'Technical Role'.

Save Variant as:

15B-3

Click the drop down on the 'System' field and select the system from which a technical role must be added. The user for the simulation exists in PS1; however, the simulation criteria can be from any system connected to GRC. In this case, PS1 is selected.



Simulation : Role Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Include Users ☐ Include Business Role
☐ Risk from Simulation only ☐ Include Composite Roles

Actions Roles Profiles

Add Remove Permission Filter Settings

Role Type	System	Role From	Role To
Technical Role	MIT Logical System for PS1:030		
	MIT Logical System for SF2:030		
	MIT Logical System for SF3:030		
	MIT Logical System for SH2:030		

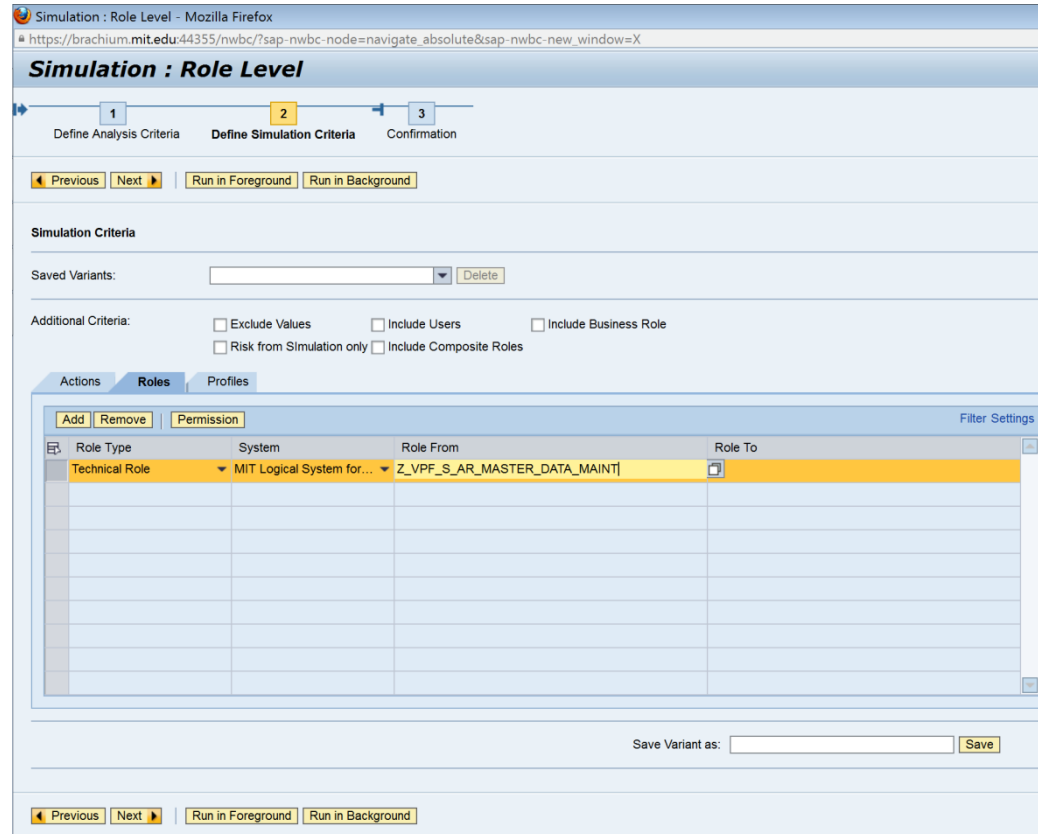
Save Variant as: Save

Previous Next Run in Foreground Run in Background

15B-4

Add the role. In this case, 'Z_VPF_S_AR_MASTER_DATA_MAINT' was typed in. The search option can also be used to search for a Role. Please refer to the 'Search for Input Values' reference document (R3) for further information.

NOTE: If the added role's authorizations should be excluded from the original role for the simulation, the 'Exclude Values' box must be checked. Otherwise, authorizations from any added roles will be added to the original role for the simulation.



Simulation : Role Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria:

- ☐ Exclude Values
- ☐ Include Users
- ☐ Include Business Role
- ☐ Risk from Simulation only
- ☐ Include Composite Roles

Actions Roles Profiles

Add Remove Permission Filter Settings

Role Type	System	Role From	Role To
Technical Role	MIT Logical System for...	Z_VPF_S_AR_MASTER_DATA_MAINT	

Save Variant as: [Text] Save

Previous Next Run in Foreground Run in Background

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.

Save Variant as:

15B-6

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Any orange line items represent risks occurring due to simulation criteria.

Role Name: SAP role name

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Risk Description: Business description of the Access Risk

System: The system in which the role is assigned to the user

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Action: SAP transaction

Action Description: SAP transaction name

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Control Description: Business description of the Mitigating Control

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Monitor Name: Name tied to the user ID of the Monitor

Business Process: The 4-digit ID representing the Business Process to which the Access Risk has been mapped in the standard rule set

Business Process Description: The business description for the Business Process to which the Access Risk has been mapped in the standard rule set

Simulation : Role Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

Analysis Results

Result Set: Result Set 1 Go Previous Next Export Result Sets

Result

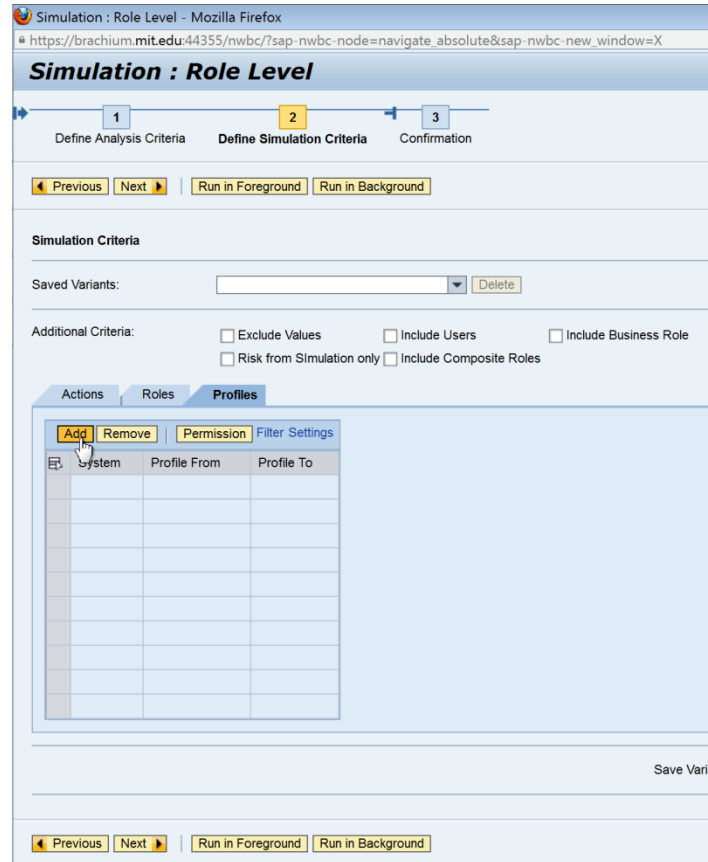
View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Summary Mitigate Risk

Role Name	Access Risk ID	Risk Description	System	Rule ID	Risk Level	Action	Action Description	Control	Control Description	Monitor	Monitor Name	Business Process	Business Process Description
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	000K	High	FBL5N	Customer Line Items					SD00	Order to Cash
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	000K	High	FD01	Create Customer (Accounting)					SD00	Order to Cash
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	0010	High	FD01	Create Customer (Accounting)					SD00	Order to Cash
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	0010	High	ZFBL5N	MIT Customer Line Items					SD00	Order to Cash
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	001Q	High	FBL5N	Customer Line Items					SD00	Order to Cash
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	001Q	High	FD02	Change Customer (Accounting)					SD00	Order to Cash
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	0026	High	FD02	Change Customer (Accounting)					SD00	Order to Cash
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	0026	High	ZFBL5N	MIT Customer Line Items					SD00	Order to Cash
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	002W	High	FBL5N	Customer Line Items					SD00	Order to Cash
Z VPF S AR GENERAL	S004	Change customer master and enter inappropriate invoice	ZZPS103001	002W	High	FD05	Block Customer (Accounting)					SD00	Order to Cash

15C-1

Simulation by Profile.

On the 'Profiles' tab, click on 'Add' to define profile simulation criteria.



Simulation : Role Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria:

☐ Exclude Values ☐ Include Users ☐ Include Business Role

☐ Risk from Simulation only ☐ Include Composite Roles

Actions Roles Profiles

Add Remove Permission Filter Settings

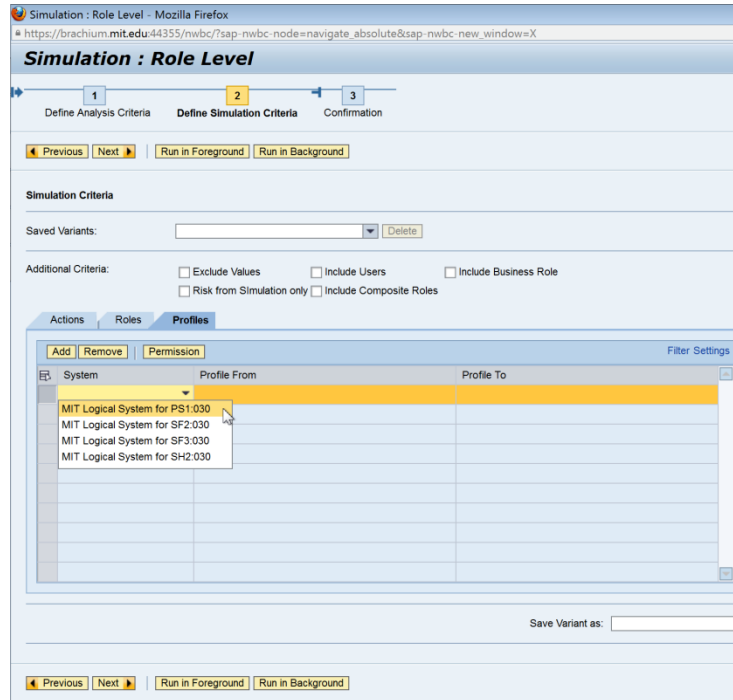
System	Profile From	Profile To

Save Vari

Previous Next Run in Foreground Run in Background

15C-2

Click the drop down on the 'System' field and select the system from which a profile must be added. The user for the simulation exists in PS1; however, the simulation criteria can be from any system connected to GRC. In this case, PS1 is selected.



Simulation : Role Level - Mozilla Firefox

https://brachium.mit.edu/44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Role Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria:

☐ Exclude Values ☐ Include Users ☐ Include Business Role

☐ Risk from Simulation only ☐ Include Composite Roles

Actions Roles Profiles

Add Remove Permission Filter Settings

System	Profile From	Profile To
MIT Logical System for PS1:030		
MIT Logical System for SF2:030		
MIT Logical System for SF3:030		
MIT Logical System for SH2:030		

Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

Add the profile. In this case, 'Z#DP:JV' was typed in. The search option can also be used to search for a Profile. Please refer to the 'Search for Input Values' reference document (R3) for further information.

[illegible]

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.

Foreground Execution

15C-5

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Any orange line items represent risks occurring due to simulation criteria.

Role Name: SAP role name

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Risk Description: Business description of the Access Risk

System: The system in which the role is assigned to the user

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: risk level defined for each Access Risk in the standard rule set

Action: SAP transaction

Action Description: SAP transaction name

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

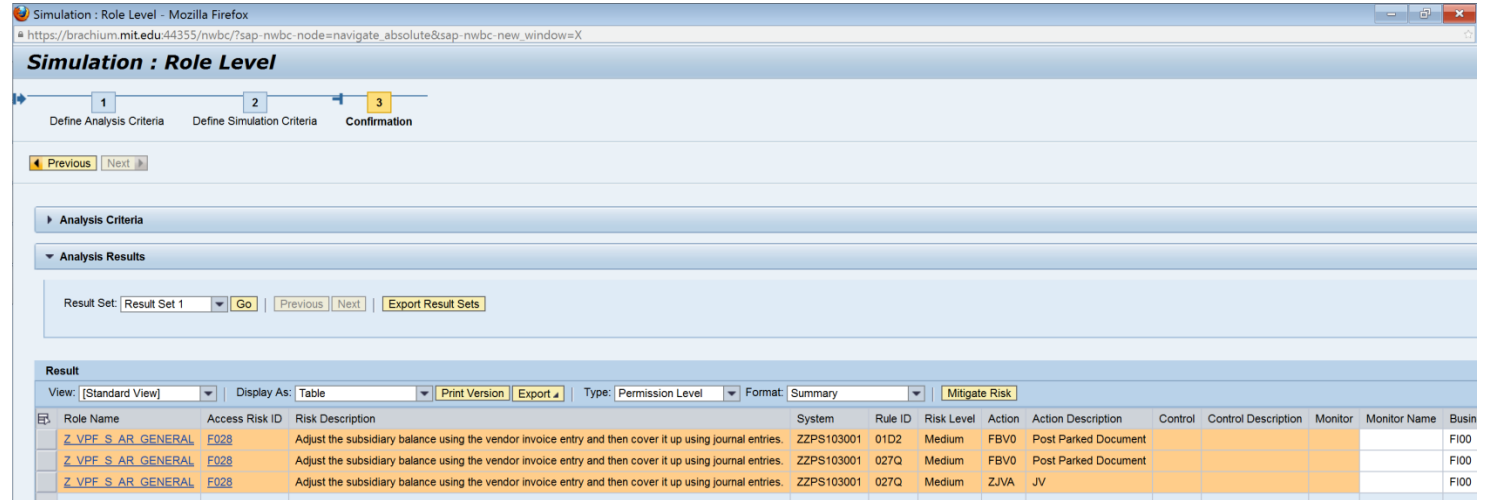
Control Description: Business description of the Mitigating Control

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Monitor Name: Name tied to the user ID of the Monitor

Business Process: The 4-digit ID representing the Business Process to which the Access Risk has been mapped in the standard rule set

Business Process Description: The business description for the Business Process to which the Access Risk has been mapped in the standard rule set



Role Name	Access Risk ID	Risk Description	System	Rule ID	Risk Level	Action	Action Description	Control	Control Description	Monitor	Monitor Name	Busin
Z_VPF_S_AR_GENERAL	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	01D2	Medium	FBV0	Post Parked Document					F100
Z_VPF_S_AR_GENERAL	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	027Q	Medium	FBV0	Post Parked Document					F100
Z_VPF_S_AR_GENERAL	F028	Adjust the subsidiary balance using the vendor invoice entry and then cover it up using journal entries.	ZZPS103001	027Q	Medium	ZJVA	JV					F100

Job Aid 16 Profile Level**USE**

This report can be used analyze for risk violations at the profile level.

INFORMATION


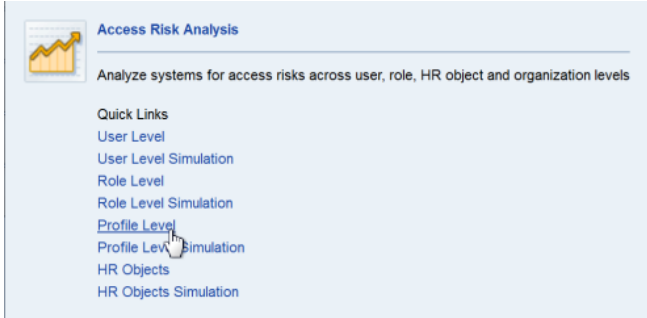
SODs, critical actions or permissions.

RELATED PROCESSES

- Process 1: New or Amended Roles
- Process 2: Mitigation Analysis

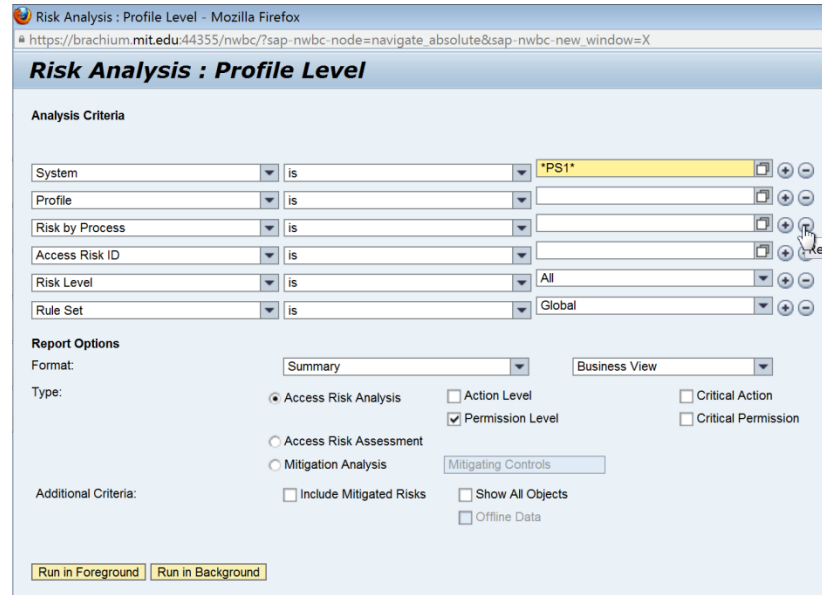
SPECIFIC SCENARIOS

- N/A

Step	Description	Screenshot
1	Navigate to the 'Access Management' tab.	 <p>Access Management</p>
2	Click on the 'Profile Level' report located in the 'Access Risk Analysis' section.	 <p>Access Risk Analysis</p> <p>Analyze systems for access risks across user, role, HR object and organization levels</p> <p>Quick Links</p> <ul style="list-style-type: none"> User Level User Level Simulation Role Level Role Level Simulation Profile Level Profile Level Simulation HR Objects HR Objects Simulation

3

In the 'Analysis Criteria' section, select the System for which information is required. Since the desired selection is PS1 (Production), '*PS1*' was typed in as the system. The search option can also be used to search for the correct system. Please refer to the 'Search for Input Values' reference document (R3) for further information.



The screenshot shows a web browser window titled "Risk Analysis : Profile Level - Mozilla Firefox" with the URL "https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X". The page header is "Risk Analysis : Profile Level".

Analysis Criteria

System: [Dropdown] is [Dropdown] *PS1* [Search Icon] [Reset Icon] [Add Icon] [Remove Icon]
 Profile: [Dropdown] is [Dropdown] [Search Icon] [Reset Icon] [Add Icon] [Remove Icon]
 Risk by Process: [Dropdown] is [Dropdown] [Search Icon] [Reset Icon] [Add Icon] [Remove Icon]
 Access Risk ID: [Dropdown] is [Dropdown] [Search Icon] [Reset Icon] [Add Icon] [Remove Icon]
 Risk Level: [Dropdown] is [Dropdown] All [Search Icon] [Reset Icon] [Add Icon] [Remove Icon]
 Rule Set: [Dropdown] is [Dropdown] Global [Search Icon] [Reset Icon] [Add Icon] [Remove Icon]

Report Options

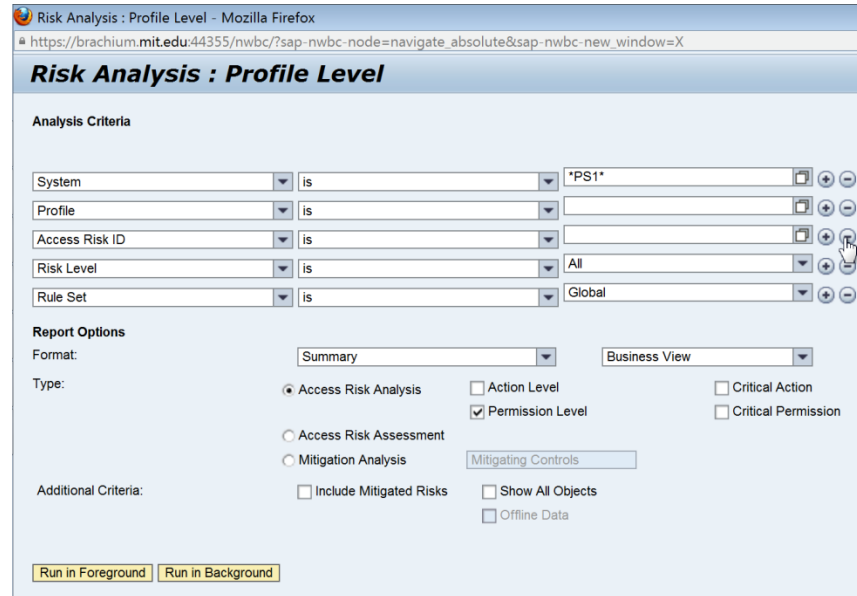
Format: [Summary] [Business View]
 Type:
☒ Access Risk Analysis ☐ Action Level ☐ Critical Action
☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission
☐ Mitigation Analysis [Mitigating Controls]
 Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects ☐ Offline Data

[Run in Foreground] [Run in Background]

4

Analysis for a single profile.

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Access Risk ID' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Risk Analysis : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : Profile Level

Analysis Criteria

System	is	*PS1*	+ -
Profile	is		+ -
Access Risk ID	is		+ -
Risk Level	is	All	+ -
Rule Set	is	Global	+ -

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - Mitigating Controls

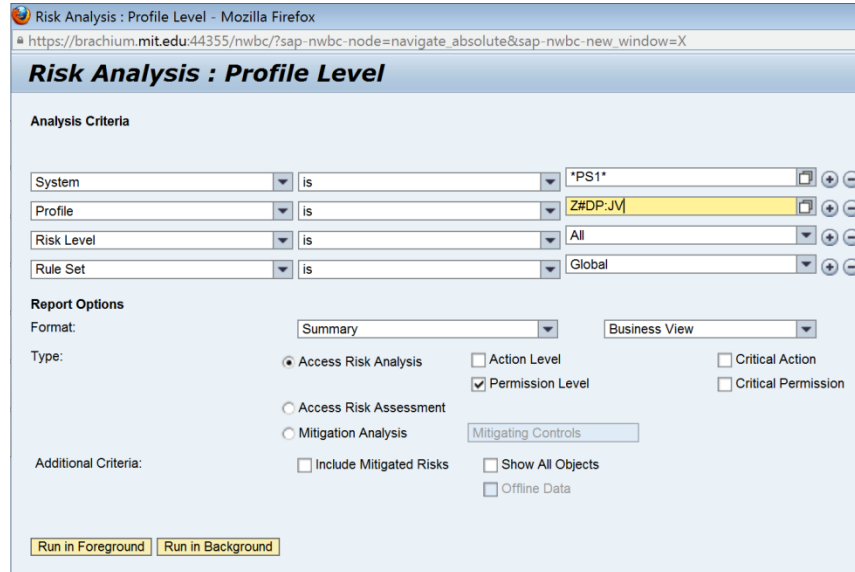
Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Show All Objects
- ☐ Offline Data

Run in Foreground Run in Background

5

Add the Profile. In this case, 'Z#DP:JV' was typed in. The search option can also be used to search for a profile. Please refer to the 'Search for Input Values' reference document (R3) for further information.



The screenshot shows a web browser window titled "Risk Analysis : Profile Level - Mozilla Firefox" with the URL "https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X". The page header is "Risk Analysis : Profile Level".

Analysis Criteria

System	is	*PS1*
Profile	is	Z#DP:JV
Risk Level	is	All
Rule Set	is	Global

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - Mitigating Controls

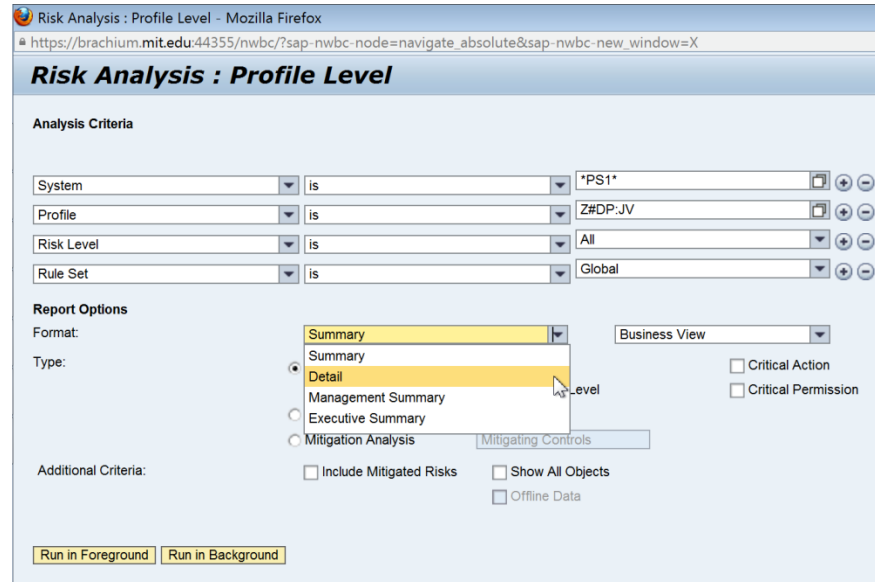
Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Show All Objects
- ☐ Offline Data

Buttons: Run in Foreground Run in Background

6

In the 'Report Options' section, select the first drop down for 'Format' and select the level of detail at which information is required. In this case, 'Detail' was selected so that the report will show information about why Risks exists.



The screenshot shows a web application titled "Risk Analysis : Profile Level" in a Mozilla Firefox browser. The URL is https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X.

Risk Analysis : Profile Level

Analysis Criteria

- System: is *PS1*
- Profile: is Z#DP.JV
- Risk Level: is All
- Rule Set: is Global

Report Options

Format: Summary (selected)

Type: Detail (selected)

Business View: Business View

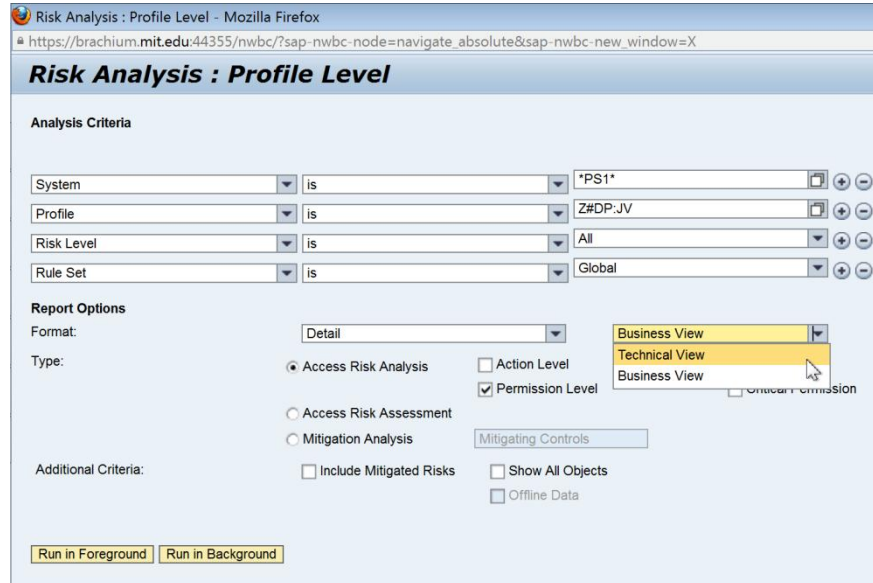
Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Show All Objects
- ☐ Offline Data
- ☐ Critical Action
- ☐ Critical Permission

Buttons: Run in Foreground, Run in Background

7

In the 'Report Options' section, select the second drop down for 'Format' and select the type of information that is required. In this case, 'Technical View' was selected so that the report will show technical information about why Risks exists.



The screenshot shows a web application titled "Risk Analysis : Profile Level" in a Mozilla Firefox browser. The URL is https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X.

Risk Analysis : Profile Level

Analysis Criteria

System	is	*PS1*	+ -
Profile	is	Z#DP.JV	+ -
Risk Level	is	All	+ -
Rule Set	is	Global	+ -

Report Options

Format: Detail

Type:

- ☒ Access Risk Analysis
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis

Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Show All Objects
- ☐ Offline Data

Business View

- ☒ Business View
- ☐ Technical View
- ☐ Business View
- ☐ Critical Emission

Buttons: Run in Foreground, Run in Background

8

Analyze for SODs based on Profile.

In the 'Report Options' section, select the first dial button for 'Access Risk Analysis'. Next, select the type of analysis that is required. The options available are:

Action Level: SODs at the transaction level (will include false positives eliminated at the authorization level)

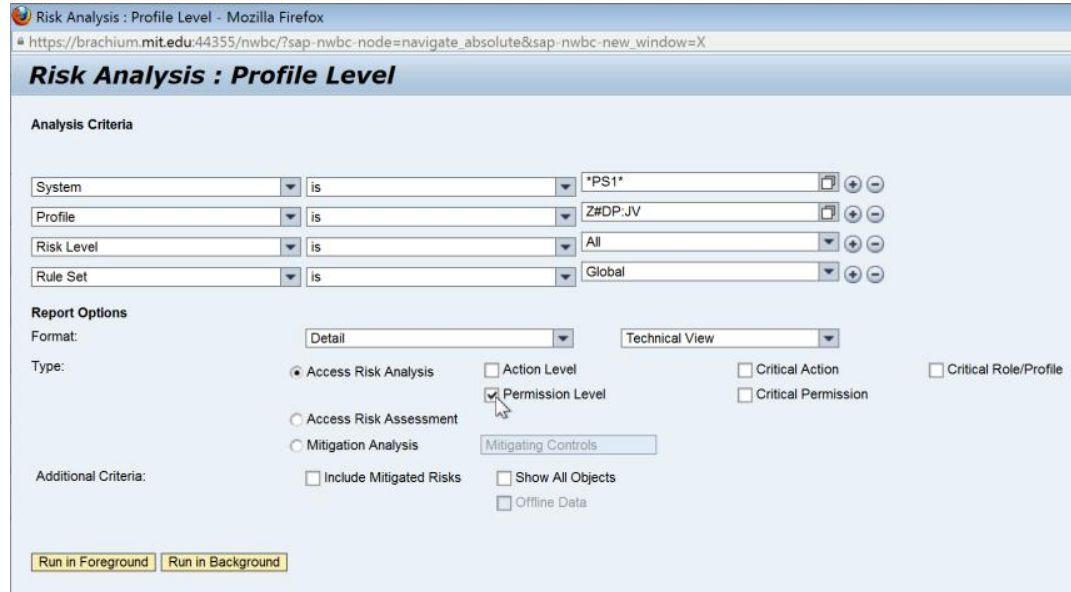
Permission Level: SODs at the authorization level

Critical Action: Critical transactions that limited/no users should have

Critical Permission: Critical authorizations that limited/no users should have

Critical Role/Profile: Critical Roles/Profiles that limited/no users should have

In this case, 'Permission Level' was selected so that the report will show SODs that exist at the Permission Level.



The screenshot shows the 'Risk Analysis : Profile Level' web application interface. The browser address bar indicates the URL: https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X.

Risk Analysis : Profile Level

Analysis Criteria

System	is	*PS1*
Profile	is	Z#DP.JV
Risk Level	is	All
Rule Set	is	Global

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis

Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Show All Objects
- ☐ Offline Data
- ☐ Critical Action
- ☐ Critical Permission
- ☐ Critical Role/Profile

Buttons: Run in Foreground Run in Background

9

In the 'Report Options' section, check 'Show All Objects' under 'Additional Criteria'. This will ensure that a Profile with no violations is explicitly listed as such (i.e. 'No Violations' will be listed as a line item for such Profiles).

Risk Analysis : Profile Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Risk Analysis : Profile Level

Analysis Criteria

System: is *PS1*

Profile: is Z#DP-JV

Risk Level: is All

Rule Set: is Global

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis

☐ Action Level

☒ Permission Level

☐ Critical Action

☐ Critical Permission

Additional Criteria:

☐ Include Mitigated Risks

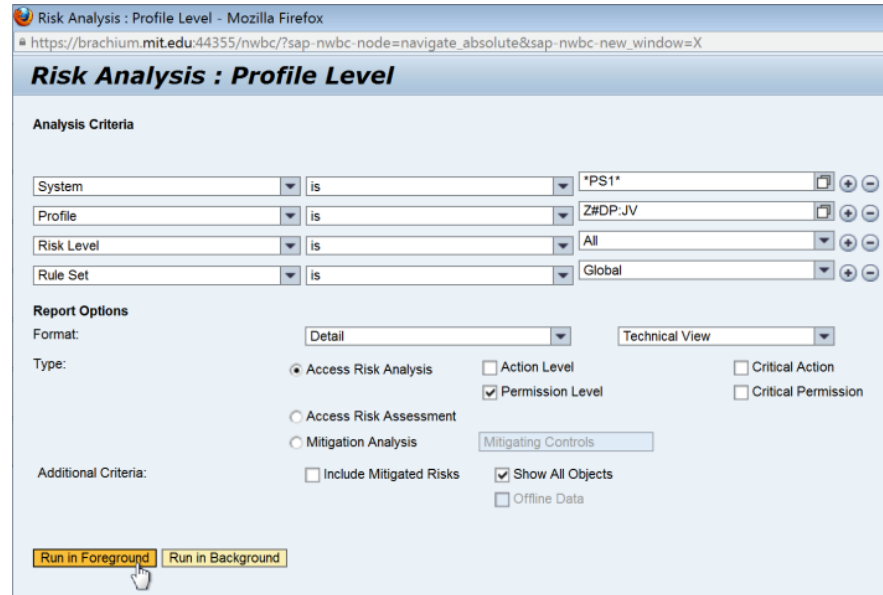
☒ Show All Objects

☐ Offline Data

Run in Foreground Run in Background

10

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



The screenshot shows a web browser window titled "Risk Analysis : Profile Level - Mozilla Firefox" with the URL https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X. The page header is "Risk Analysis : Profile Level".

Analysis Criteria

System	is	*PS1*	[icon]	[+]	[-]
Profile	is	Z#DP JV	[icon]	[+]	[-]
Risk Level	is	All	[icon]	[+]	[-]
Rule Set	is	Global	[icon]	[+]	[-]

Report Options

Format: Detail Technical View

Type:

- ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action
- ☐ Access Risk Assessment ☒ Permission Level ☐ Critical Permission
- ☐ Mitigation Analysis Mitigating Controls

Additional Criteria:

- ☐ Include Mitigated Risks ☒ Show All Objects
- ☐ Offline Data

Buttons: Run in Foreground Run in Background

11

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Profile ID: SAP profile name

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Risk Analysis : Profile Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Multiple Selection

Analysis Criteria

Analysis Results

Result Set: Result Set 1 Go Previous Next Export Result Sets

Result

View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Detail Mitigate Risk Filter Settings

Profile ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
Z#DP-JV	F028	01D2	Medium	AP02	ZZPS103001	FBV0	F_BKPF_BUK	ACTVT	01	02	Z#DP-JV				
Z#DP-JV	F028	01D2	Medium	AP02	ZZPS103001	FBV0	S_TCODE	TCD	FBV0		Z#DP-JV				
Z#DP-JV	F028	01D2	Medium	GL01	ZZPS103001	FBV0	F_BKPF_BUK	ACTVT	01	02	Z#DP-JV				
Z#DP-JV	F028	01D2	Medium	GL01	ZZPS103001	FBV0	S_TCODE	TCD	FBV0		Z#DP-JV				
Z#DP-JV	F028	027Q	Medium	AP02	ZZPS103001	FBV0	F_BKPF_BUK	ACTVT	01	02	Z#DP-JV				
Z#DP-JV	F028	027Q	Medium	AP02	ZZPS103001	FBV0	S_TCODE	TCD	FBV0		Z#DP-JV				
Z#DP-JV	F028	027Q	Medium	GL01	ZZPS103001	ZJVA	F_BKPF_BUK	ACTVT	01	02	Z#DP-JV				
Z#DP-JV	F028	027Q	Medium	GL01	ZZPS103001	ZJVA	S_TCODE	TCD	ZJVA		Z#DP-JV				

Job Aid 17 Profile Level Simulation**USE**

This report can be used carry out simulations at the profile level for the purpose of understanding whether the addition or removal of certain access either creates or eliminates SODs and other risks.

INFORMATION



New risk violations that will result due to changes to profiles.

RELATED PROCESSES

- Process 1: New or Amended Roles
- Process 2: Mitigation Analysis

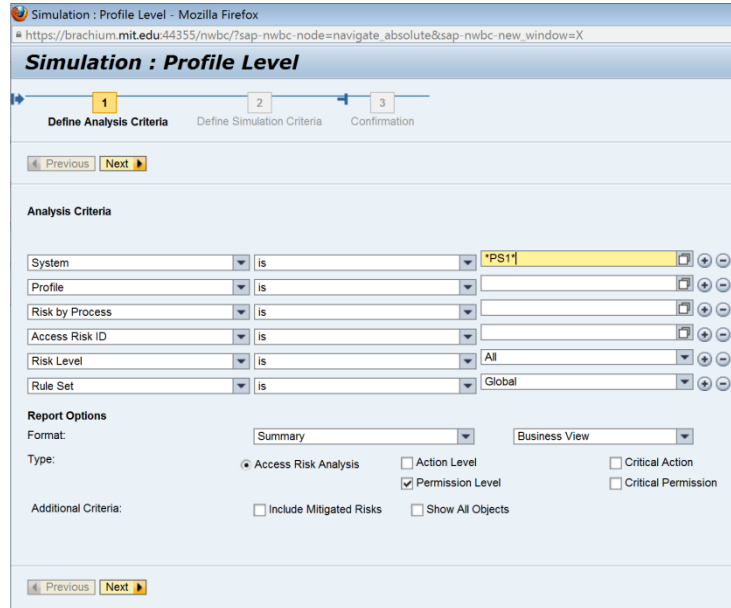
SPECIFIC SCENARIOS

- 14A: Simulation by Action (transaction).
- 14B: Simulation by Role.
- 14C: Simulation by Profile.

Step	Description	Screenshot
1	Navigate to the 'Access Management' tab.	
2	Click on the 'Role Level Simulation' report located in the 'Access Risk Analysis' section.	

3

In the 'Analysis Criteria' section, select the System for which information is required. Since the desired selection is PS1 (Production), '*PS1*' was typed in as the system. The search option can also be used to search for the correct system. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Profile is

Risk by Process is

Access Risk ID is

Risk Level is All

Rule Set is Global

Report Options

Format: Summary Business View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action ☒ Permission Level ☐ Critical Permission

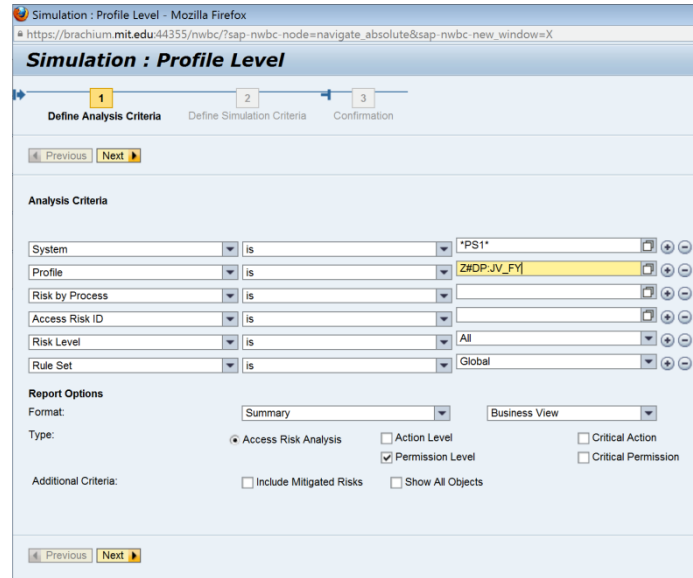
Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects

Previous Next

4

Run a simulation for a single Profile.

Add the Profile. In this case, 'Z#DP:JV_FY' was typed in. The search option can also be used to search for a profile. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is PS1

Profile is Z#DP:JV_FY

Risk by Process is

Access Risk ID is

Risk Level is All

Rule Set is Global

Report Options

Format: Summary Business View

Type: (*) Access Risk Analysis Action Level Critical Action

Permission Level Critical Permission

Additional Criteria: Include Mitigated Risks Show All Objects

Previous Next

5

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Risk by Process' row to remove the row for that search criterion; this criterion is not needed for this scenario.

Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System	is	*PS1*	-
Profile	is	ZrDP:JV_FY	-
Risk by Process	is		-
Access Risk ID	is		-
Risk Level	is	All	-
Rule Set	is	Global	-

Report Options

Format: Summary Business View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

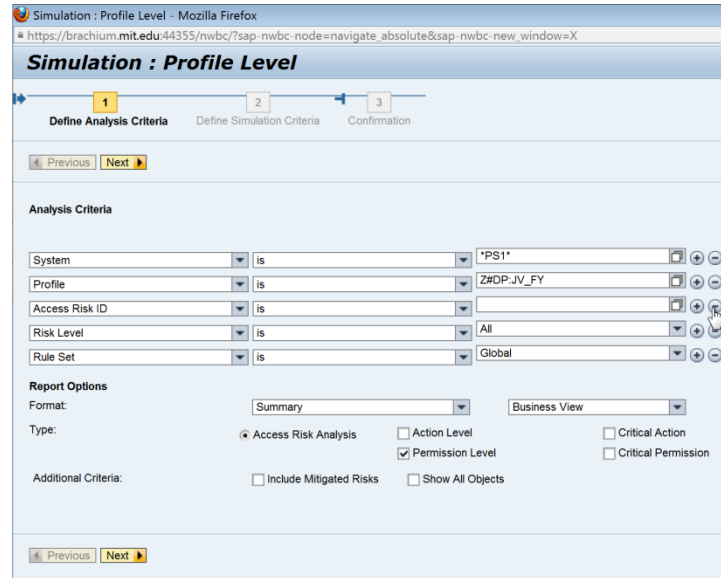
☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects

Previous Next

6

In the 'Analysis Criteria' section, click on the '-' at the end of the 'Access Risk ID' row to remove the row for that search criterion; this criterion is not needed for this scenario.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System	is	*PS1*	-
Profile	is	Z#DP JV_FY	-
Access Risk ID	is		-
Risk Level	is	All	-
Rule Set	is	Global	-

Report Options

Format: Summary Business View

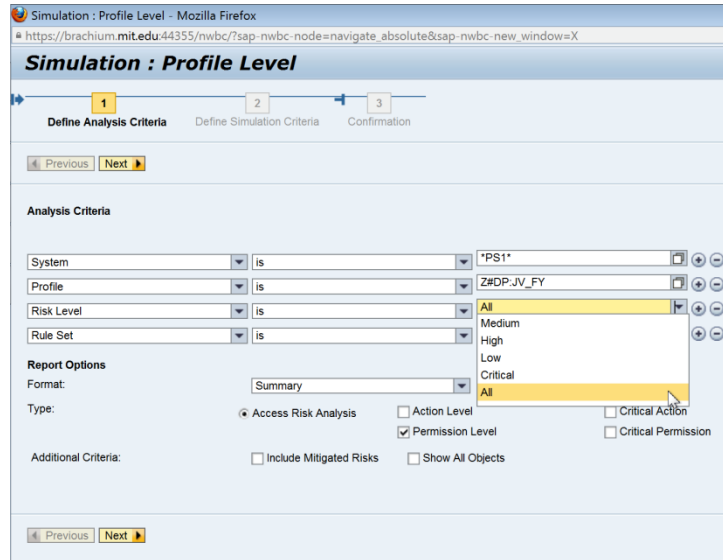
Type:
 ☒ Access Risk Analysis
 ☐ Action Level
 ☐ Critical Action
 ☒ Permission Level
 ☐ Critical Permission

Additional Criteria:
 ☐ Include Mitigated Risks
 ☐ Show All Objects

Previous Next

7

In the 'Analysis Criteria' section, select the 'Risk Level' drop down and select the risk level for which information is required. In this case, 'All' was selected so that the report evaluates for all risk levels.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Profile is Z#DP JV_FY

Risk Level is All

Rule Set is Medium
High
Low
Critical

Report Options

Format: Summary

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects

Previous Next

8

In the 'Analysis Criteria' section, select the 'Rule Set' drop down and select the Rule Set against which the report should be executed. In this case, 'Global', the MIT Rule Set, was selected. Unless advised otherwise, the selection should always be 'Global' for this report.

Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System	is	*PS1*
Profile	is	Z#DP-JV_FY
Risk Level	is	All
Rule Set	is	Global

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
- ☐ Action Level
- ☐ Critical Action
- ☒ Permission Level
- ☐ Critical Permission

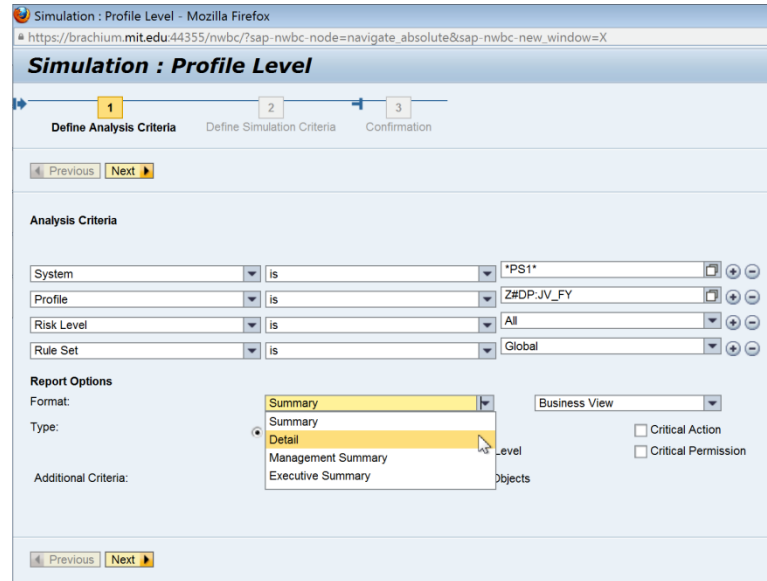
Additional Criteria:

- ☐ Include Mitigated Risks
- ☐ Show All Objects

Previous Next

9

In the 'Report Options' section, select the first drop down for 'Format' and select the level of detail at which information is required. In this case, 'Detail' was selected so that the report will show information about why Risks exists.



Simulation : Profile Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Profile is Z#DP-JV_FY

Risk Level is All

Rule Set is Global

Report Options

Format: Summary

Type: Detail

Business View

☐ Critical Action

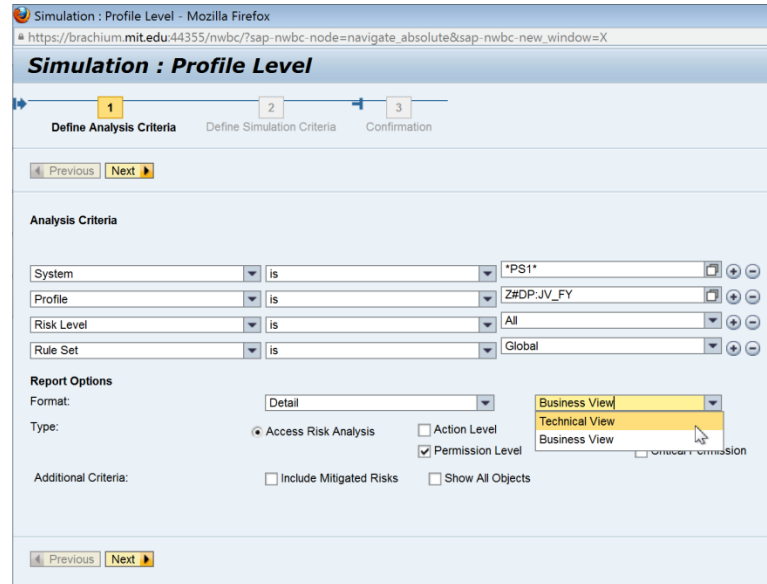
☐ Critical Permission

Additional Criteria:

Previous Next

10

In the 'Report Options' section, select the second drop down for 'Format' and select the type of information that is required. In this case, 'Technical View' was selected so that the report will show technical information about why Risks exists.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Profile is Z#DP-JV_FY

Risk Level is All

Rule Set is Global

Report Options

Format: Detail

Type: ☒ Access Risk Analysis ☐ Action Level ☒ Permission Level

Additional Criteria: ☐ Include Mitigated Risks ☐ Show All Objects

Previous Next

11

Analyze for SODs (excluding false positives).

In the 'Report Options' section, select the dial button for 'Access Risk Analysis'. Next, select the type of analysis that is required. The options available are:

Action Level: SODs at the transaction level (will include false positives eliminated at the authorization level)

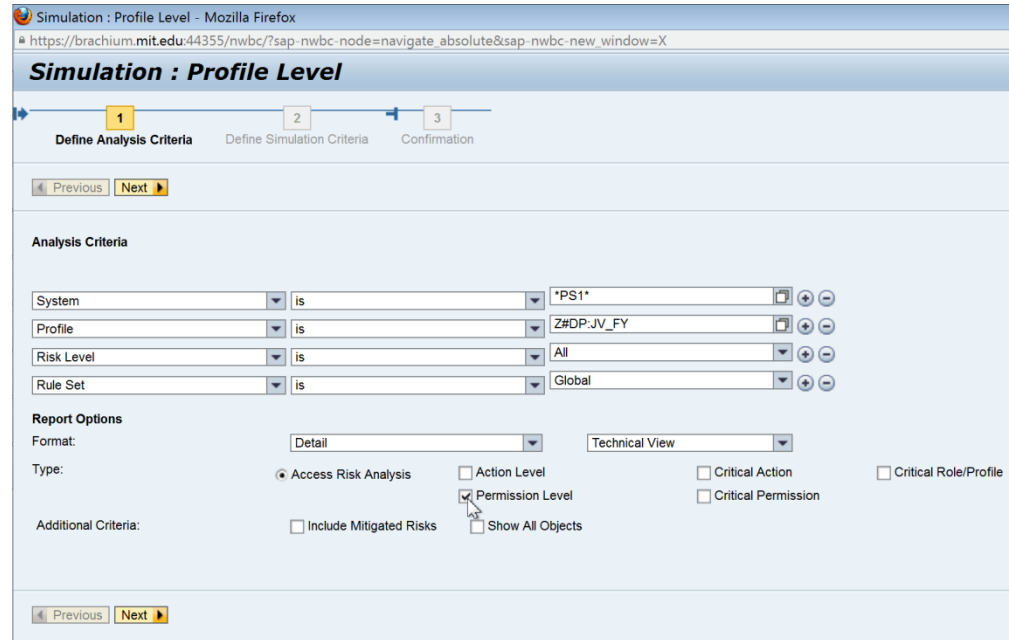
Permission Level: SODs at the authorization level

Critical Action: Critical transactions that limited/no users should have

Critical Permission: Critical authorizations that limited/no users should have

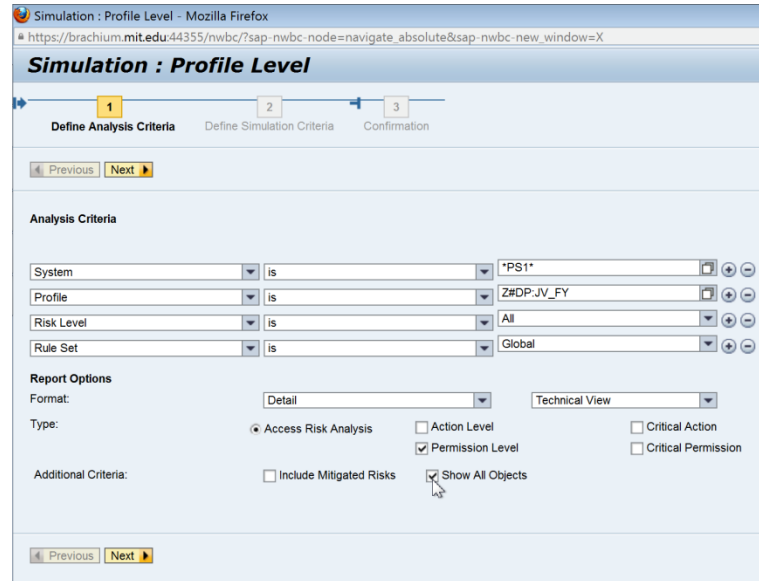
Critical Role/Profile: Critical Roles/Profiles that limited/no users should have

In this case, 'Permission Level' was selected so that the report will show SODs that exist at the Permission Level.



12

In the 'Report Options' section, check 'Show All Objects' under 'Additional Criteria'. This will ensure that Profiles with no violations are explicitly listed as such (i.e. 'No Violations' will be listed as a line item for such Profiles).



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Profile is Z#DP-JV_FY

Risk Level is All

Rule Set is Global

Report Options

Format: Detail Technical View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☒ Permission Level ☐ Critical Permission

Additional Criteria: ☐ Include Mitigated Risks ☒ Show All Objects

Previous Next

13

The analysis criteria has now been defined. Click on 'Next' to define the simulation criteria.

Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

System is *PS1*

Profile is Z#DP-JV_FY

Risk Level is All

Rule Set is Global

Report Options

Format: Detail Technical View

Type: ☒ Access Risk Analysis ☐ Action Level ☐ Critical Action

☒ Permission Level ☐ Critical Permission

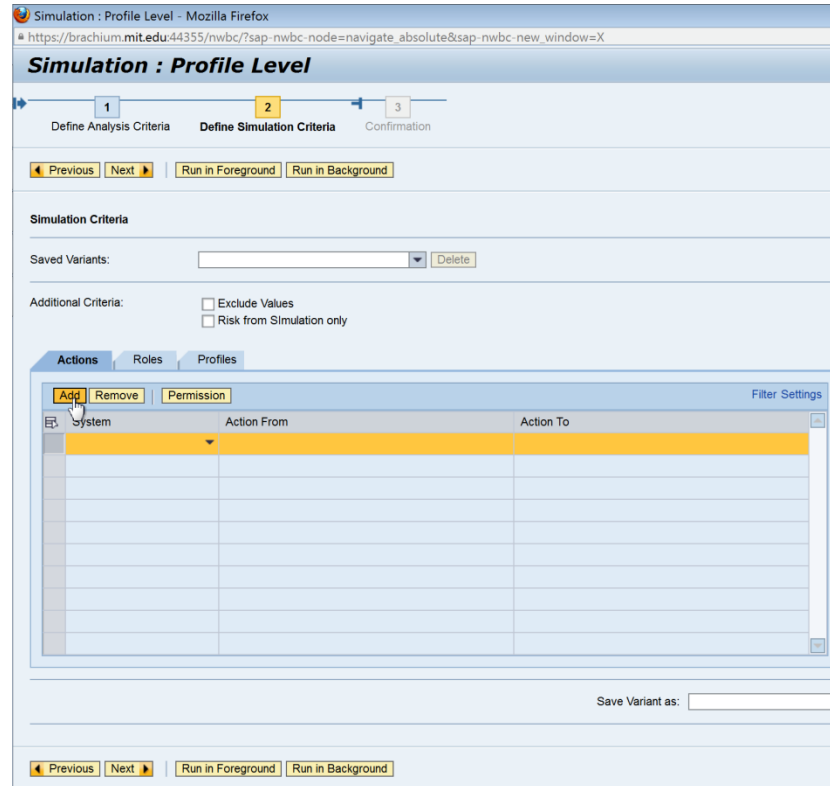
Additional Criteria: ☐ Include Mitigated Risks ☒ Show All Objects

Previous Next

14A-1

Simulation by Action
(transaction).

On the 'Actions' tab, click on
'Add' to define transaction
simulation criteria.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

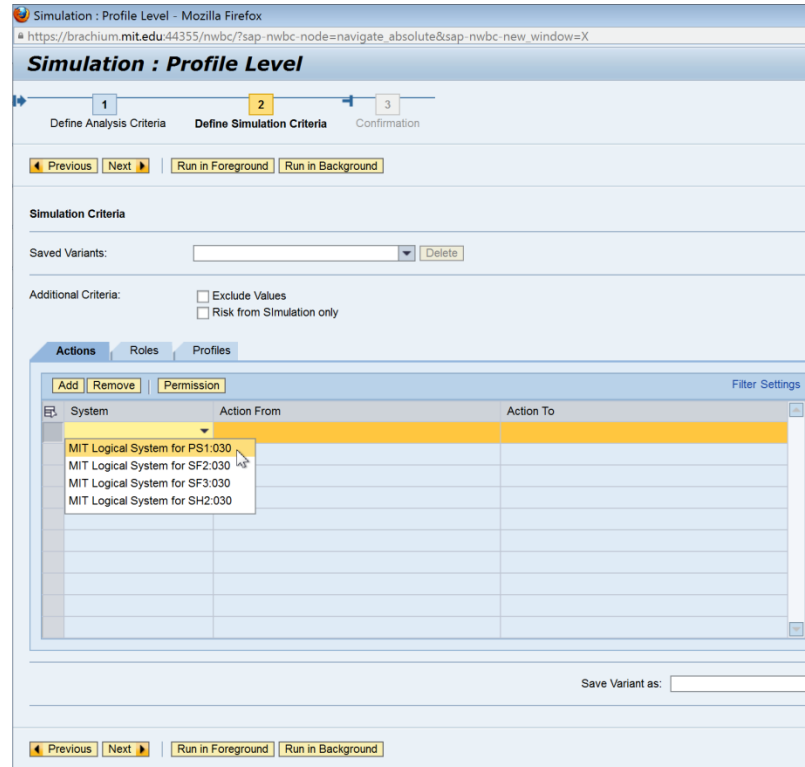
System	Action From	Action To

Save Variant as:

Previous Next Run in Foreground Run in Background

14A-2

Click the drop down on the 'System' field and select the system from which a transaction must be added. The user for the simulation exists in PS1; however, the simulation criteria can be from any system connected to GRC. In this case, PS1 is selected.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

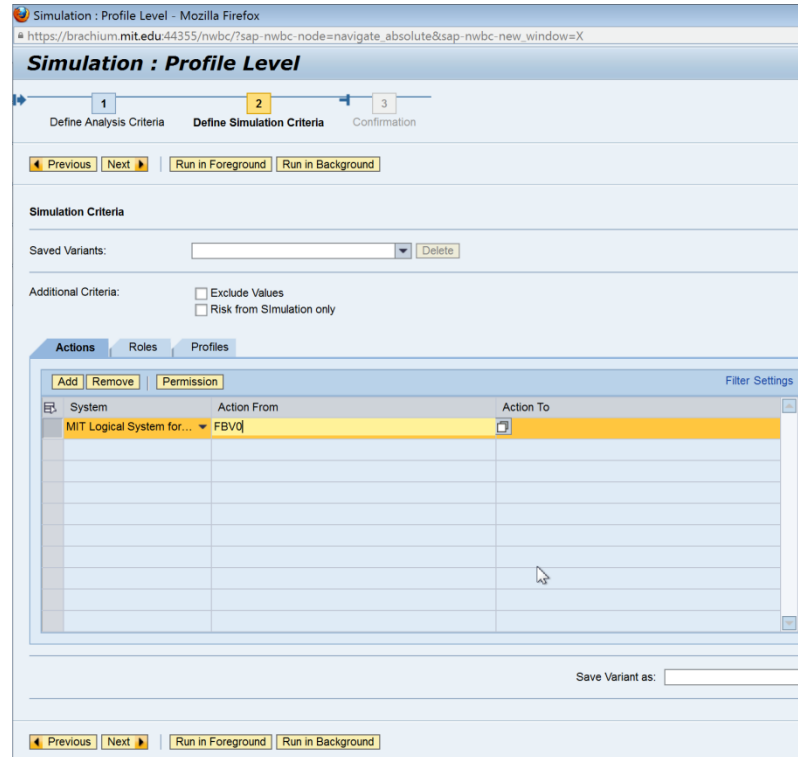
System	Action From	Action To
MIT Logical System for PS1.030		
MIT Logical System for SF2.030		
MIT Logical System for SF3.030		
MIT Logical System for SH2.030		

Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

14A-3

Add the transaction. In this case, 'FBV0' was typed in. The search option can also be used to search for an Action. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria:

☐ Exclude Values

☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

System	Action From	Action To
MIT Logical System for ...	FBV0	

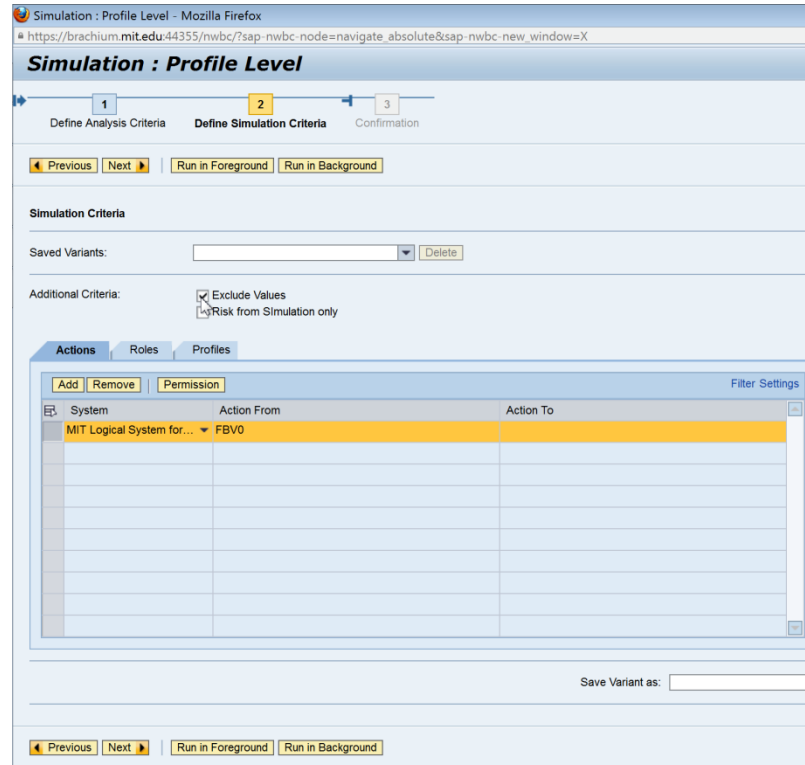
Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

14A-4

If transactions should be excluded from the Profile for the simulation, the 'Exclude Values' box must be checked. Otherwise, any added transactions will be added to the Profile for the simulation.

The 'Exclude Values' box is checked in this example.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria:

☒ Exclude Values
☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

System	Action From	Action To
MIT Logical System for...	FBV0	

Save Variant as:

Previous Next Run in Foreground Run in Background

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.

Save Variant as:

14A-6

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Any orange line items represent risks occurring due to simulation criteria.

Profile ID: SAP profile name

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

Analysis Results

Result Set: Result Set 1 Go Previous Next Export Result Sets

Result

View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Detail Mitigate Risk Filter Settings

Profile ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
Z#DP.JV_FY					ZZPS103001	No Violations									

Simulation by Role.

[illegible]

Click the drop down on the 'Role Type' field and select 'Technical Role'. For role-based simulation criteria, unless otherwise advised, the selection will always be 'Technical Role'.

Save Variant as:

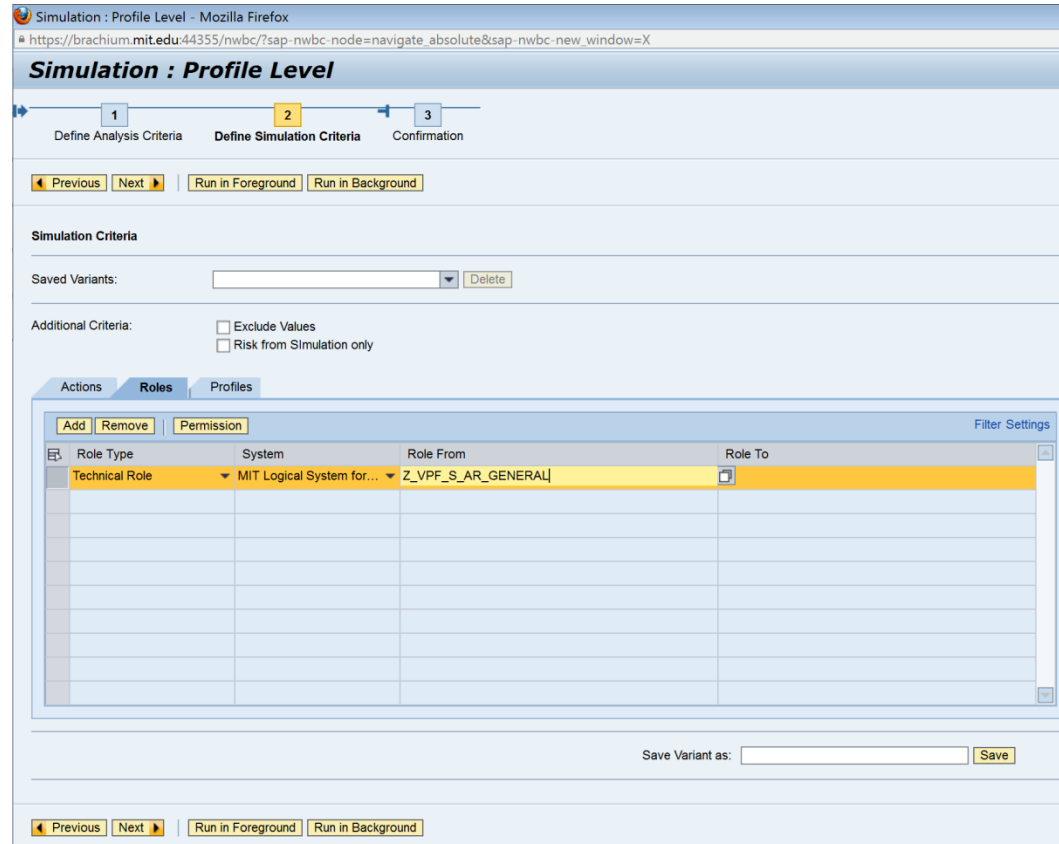
Click the drop down on the 'System' field and select the system from which a technical role must be added. The user for the simulation exists in PS1; however, the simulation criteria can be from any system connected to GRC. In this case, PS1 is selected.

Save Variant as:

14B-4

Add the role. In this case, 'Z_VPF_S_AR_GENERAL' was typed in. The search option can also be used to search for a Role. Please refer to the 'Search for Input Values' reference document (R3) for further information.

NOTE: If the added role's authorizations should be excluded from the original Profile for the simulation, the 'Exclude Values' box must be checked. Otherwise, authorizations from any added roles will be added to the original Profile for the simulation.



Simulation : Profile Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

Role Type	System	Role From	Role To
Technical Role	MIT Logical System for...	Z_VPF_S_AR_GENERAL	<input type="checkbox"/>

Save Variant as: Save

Previous Next Run in Foreground Run in Background

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.

351

14B-6

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Any orange line items represent risks occurring due to simulation criteria.

Profile ID: SAP profile name

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control

Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

Analysis Results

Result Set: Result Set 1 Go Previous Next Export Result Sets

Result

View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Detail Mitigate Risk Filter Settings

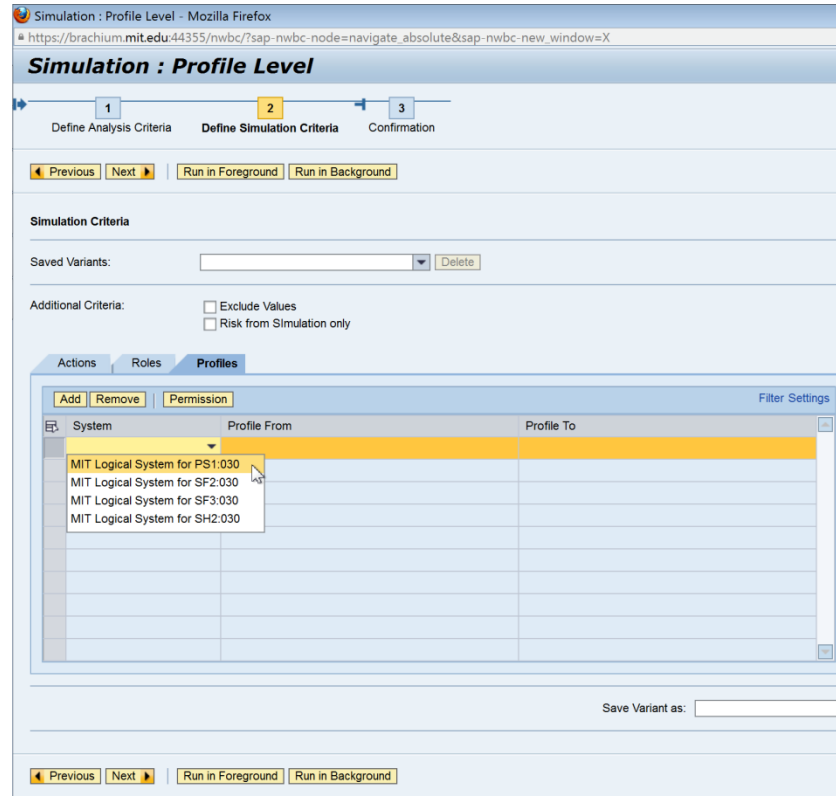
Profile ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
Z#DP-JV_FY	F028	01D2	Medium	AP02	ZZPS103001	FBV0	F_BKPF_BUK	ACTVT	01	02	Z#DP-JV_FY				
Z#DP-JV_FY	F028	01D2	Medium	AP02	ZZPS103001	FBV0	F_BKPF_BUK	ACTVT	01	02	Z_VPF_S_AR_GENERAL				
Z#DP-JV_FY	F028	01D2	Medium	AP02	ZZPS103001	FBV0	S_TCODE	TCD	FBV0		Z#DP-JV_FY				
Z#DP-JV_FY	F028	01D2	Medium	GL01	ZZPS103001	FBV0	F_BKPF_BUK	ACTVT	01	02	Z#DP-JV_FY				
Z#DP-JV_FY	F028	01D2	Medium	GL01	ZZPS103001	FBV0	F_BKPF_BUK	ACTVT	01	02	Z_VPF_S_AR_GENERAL				
Z#DP-JV_FY	F028	01D2	Medium	GL01	ZZPS103001	FBV0	S_TCODE	TCD	FBV0		Z#DP-JV_FY				

Simulation by Profile.

The screenshot shows a web browser window titled "Simulation : Profile Level - Mozilla Firefox". The address bar contains the URL "https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-". The main heading is "Simulation : Profile Level". Below it is a progress bar with three steps: 1. Define Analysis Criteria, 2. Define Simulation Criteria (currently active), and 3. Confirmation. Navigation buttons include "Previous", "Next", "Run in Foreground", and "Run in Background". Under "Simulation Criteria", there's a "Saved Variants:" section with a dropdown menu and a "Delete" button. An "Additional Criteria:" section has two checkboxes: "Exclude Values" and "Risk from Simulation only". At the bottom, there are tabs for "Actions", "Roles", and "Profiles" (selected). The "Profiles" tab contains sub-tabs "Add", "Remove", "Permission", and "Filter Settings". A mouse cursor points to the "Add" button. Below these are columns labeled "System", "Profile From", and "Profile To", followed by a large empty table grid.

14C-2

Click the drop down on the 'System' field and select the system from which a profile must be added. The user for the simulation exists in PS1; however, the simulation criteria can be from any system connected to GRC. In this case, PS1 is selected.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Profiles

Add Remove Permission Filter Settings

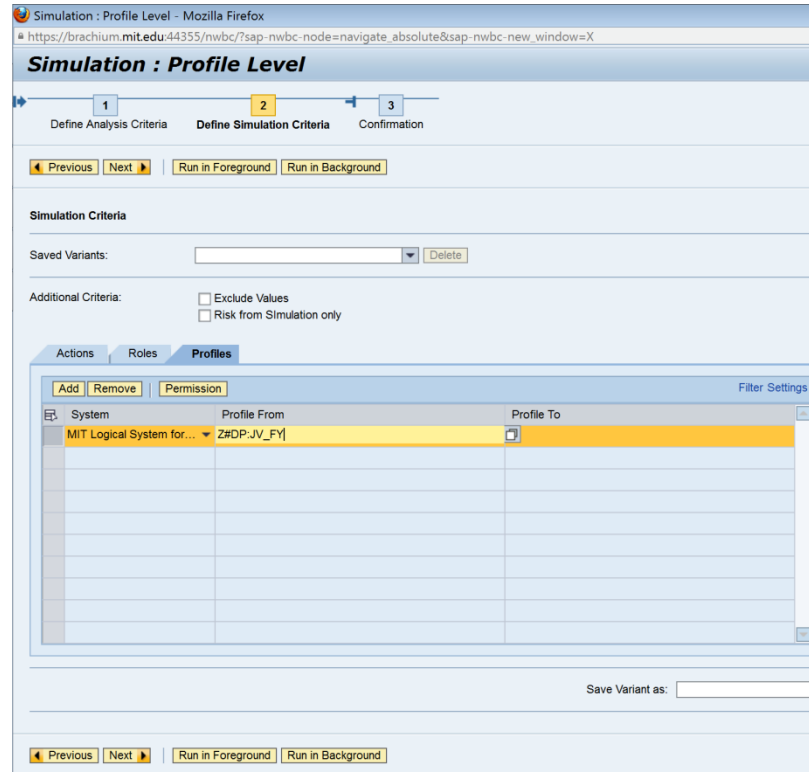
System	Profile From	Profile To
MIT Logical System for PS1:030		
MIT Logical System for SF2:030		
MIT Logical System for SF3:030		
MIT Logical System for SH2:030		

Save Variant as:

Previous Next Run in Foreground Run in Background

14C-3

Add the profile. In this case, 'Z#DP:JV_FY' was typed in. The search option can also be used to search for a Profile. Please refer to the 'Search for Input Values' reference document (R3) for further information.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria: ☐ Exclude Values ☐ Risk from Simulation only

Profiles

Add Remove Permission Filter Settings

System	Profile From	Profile To
MIT Logical System for...	Z#DP:JV_FY	<input type="checkbox"/>

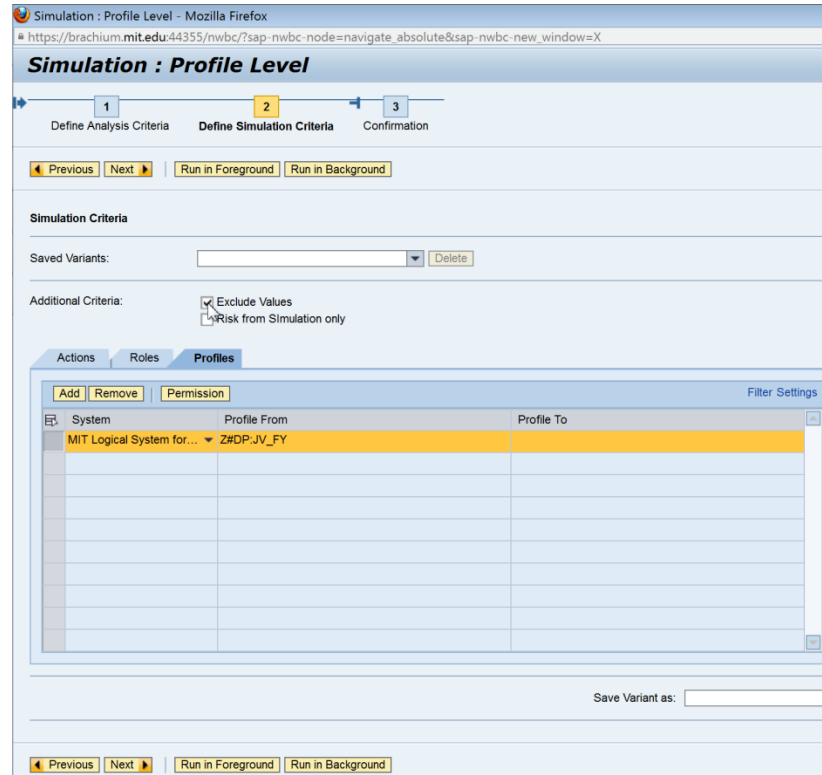
Save Variant as:

Previous Next Run in Foreground Run in Background

14C-4

If authorizations from any added Profiles should be excluded from the Profile for the simulation, the 'Exclude Values' box must be checked. Otherwise, authorizations from any added Profiles will be added to the Profile for the simulation.

The 'Exclude Values' box is checked in this example.



Simulation : Profile Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: Delete

Additional Criteria:

☒ Exclude Values

☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

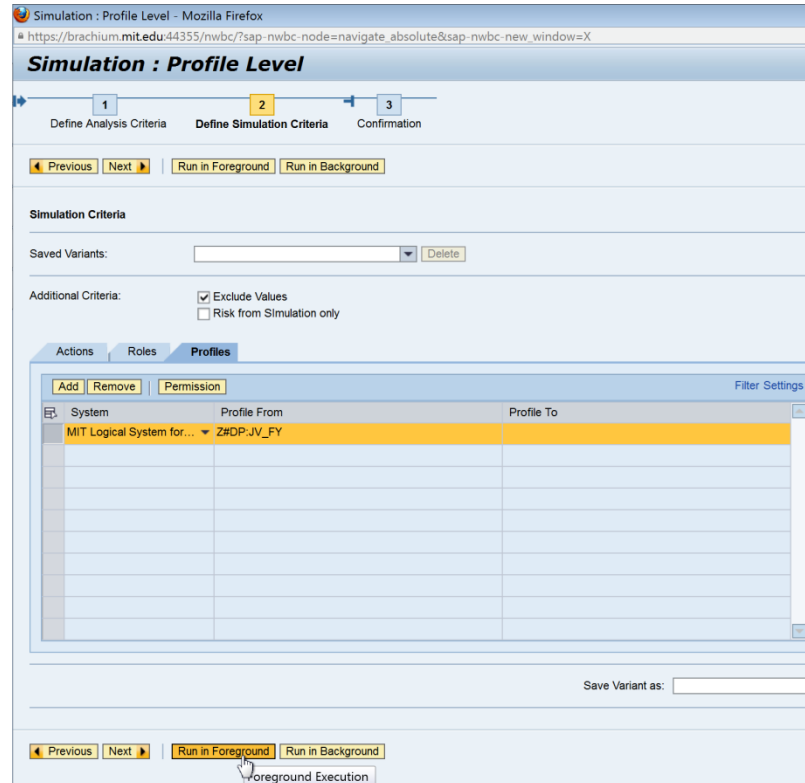
System	Profile From	Profile To
MIT Logical System for...	ZsDP-JV_FY	

Save Variant as:

Previous Next Run in Foreground Run in Background

14C-5

Run the report in the foreground. If the report is expected to yield a large amount of data, execute the report by running a background job. See the 'Execute a Background Job' reference document (R5) for further information.



Simulation : Profile Level - Mozilla Firefox
https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next Run in Foreground Run in Background

Simulation Criteria

Saved Variants: [Dropdown] Delete

Additional Criteria: ☒ Exclude Values ☐ Risk from Simulation only

Actions Roles Profiles

Add Remove Permission Filter Settings

System	Profile From	Profile To
MIT Logical System for...	Z#DP JV_FY	

Save Variant as: [Text Field]

Previous Next Run in Foreground Run in Background

Foreground Execution

14C-6

Analyze the data. This data can also be exported. See the 'Export Data from GRC' reference document (R8) for further information.

Any orange line items represent risks occurring due to simulation criteria.

Profile ID: SAP profile name

Access Risk ID: The 4-digit ID representing each medium-risk (as defined in the standard rule set) for which violations exist

Rule ID: The ID representing the particular rule that was triggered for that Risk

Risk Level: The risk level defined for each Access Risk in the standard rule set

Function: The ID representing the particular function that was triggered

System: The system in which the role is assigned to the user

Action: SAP transaction

Resource: SAP authorization object

Resource Extn: SAP authorization object field

Value From: SAP authorization object field value (start value for a range)

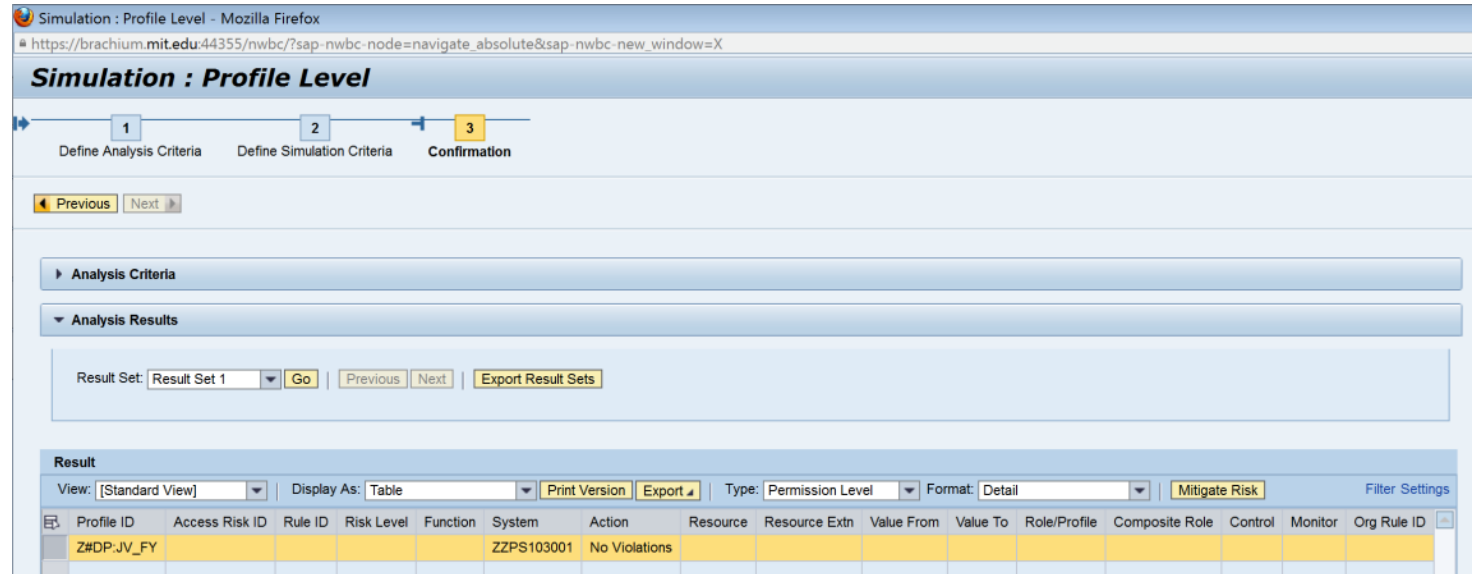
Value To: SAP authorization object field value (end value for a range)

Role/Profile: The single role/profile causing the SOD

Composite Role: The composite role containing the SOD-causing single role (if any exist)

Control: The 10-digit ID representing the Mitigating Control applied for the User with the Access Risk

Monitor: The user ID of the Monitor responsible for the Mitigating Control



Simulation : Profile Level - Mozilla Firefox

https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X

Simulation : Profile Level

1 Define Analysis Criteria 2 Define Simulation Criteria 3 Confirmation

Previous Next

Analysis Criteria

Analysis Results

Result Set: Result Set 1 Go Previous Next Export Result Sets

Result

View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Detail Mitigate Risk Filter Settings

Profile ID	Access Risk ID	Rule ID	Risk Level	Function	System	Action	Resource	Resource Extn	Value From	Value To	Role/Profile	Composite Role	Control	Monitor	Org Rule ID
Z#DP.JV_FY					ZZPS103001	No Violations									

Reference Aids

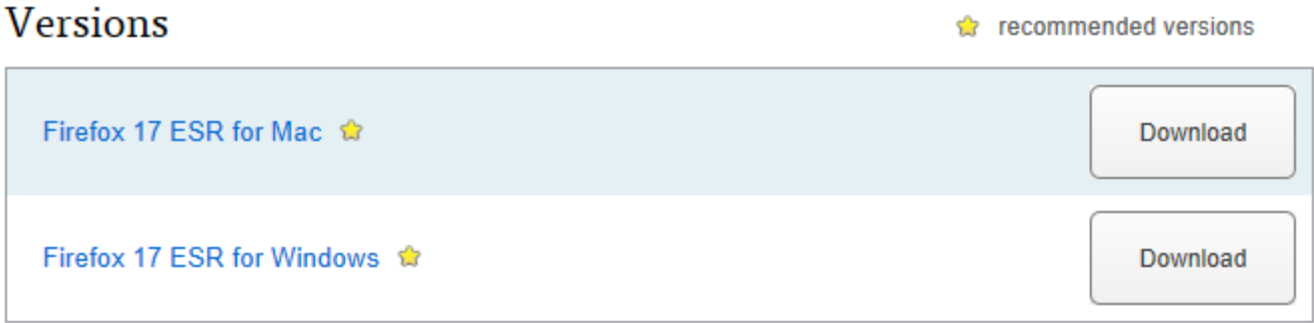
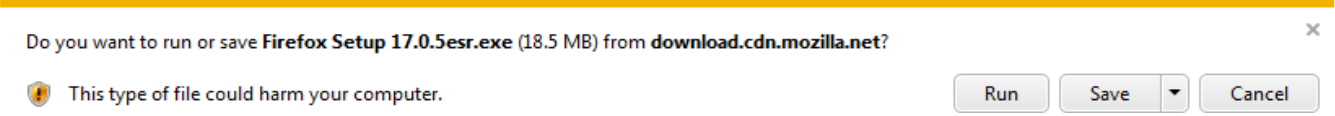
PURPOSE OF THIS DOCUMENT

Procedures on repetitive tasks and actions related to GRC Reports are documented in reporting Reference Aids. Each Reference Aid provides details on execution for a particular repeated action.

CONTENTS

- R1 Access GRC Reporting
- R2 Add or Remove Search Lines to a Report
- R3 Search for Input Values
- R4 Save a Variant
- R5 Execute a Background Job
- R6 Filter a Report
- R7 Change Your Report View
- R8 Export Data from GRC
- R9 Simple Sort

Reference R1 Access GRC Reporting

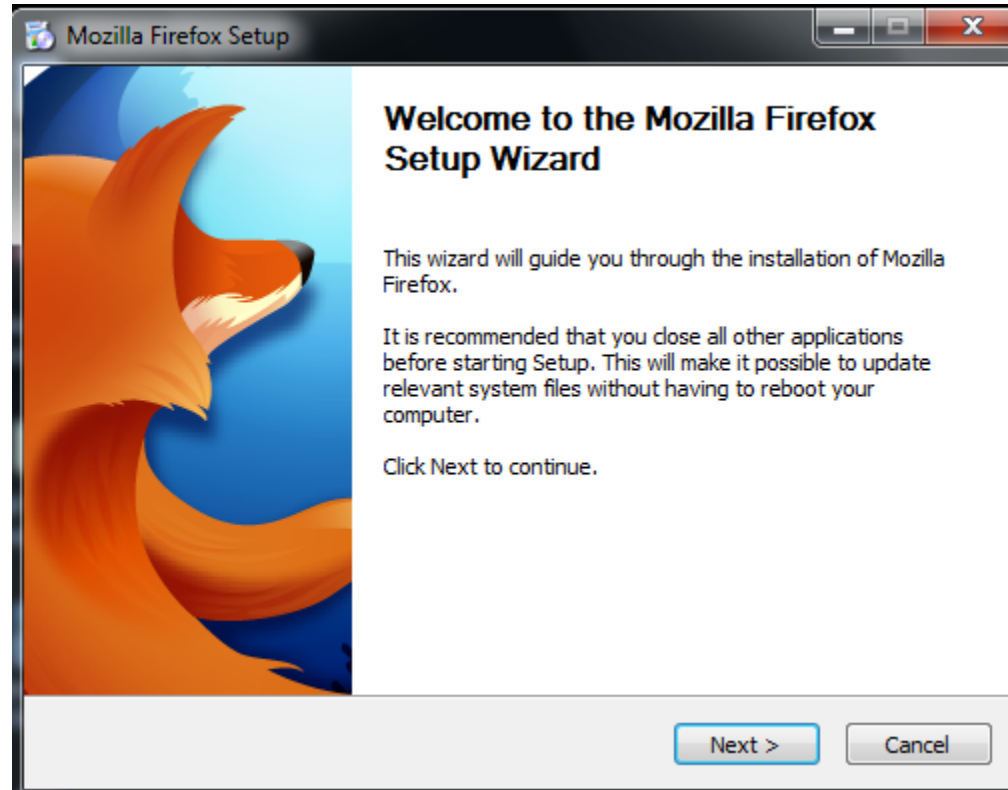
Step	Description	Screenshot
1	Install Mozilla Firefox ESR (Extended Support Release) 17 by pressing Ctrl + Click on the link.	http://ist.mit.edu/firefox
2	Click the Download button next to Firefox 17 ESR for Windows.	 <p>The screenshot shows the 'Versions' page for Firefox. It lists 'Firefox 17 ESR for Mac' and 'Firefox 17 ESR for Windows', both marked as 'recommended versions' with a star icon. Each entry has a 'Download' button next to it.</p>
3	<p>You will see a pop-up message.</p> <p>Click the <i>Run</i> button.</p>	 <p>The screenshot shows a Windows security warning dialog box. The text reads: 'Do you want to run or save Firefox Setup 17.0.5esr.exe (18.5 MB) from download.cdn.mozilla.net?'. Below this, it says 'This type of file could harm your computer.' There are three buttons: 'Run', 'Save', and 'Cancel'.</p>

4

A '*Running Security Scan*' message will appear at the bottom of the screen.

Then the Mozilla Firefox Setup Window will appear.

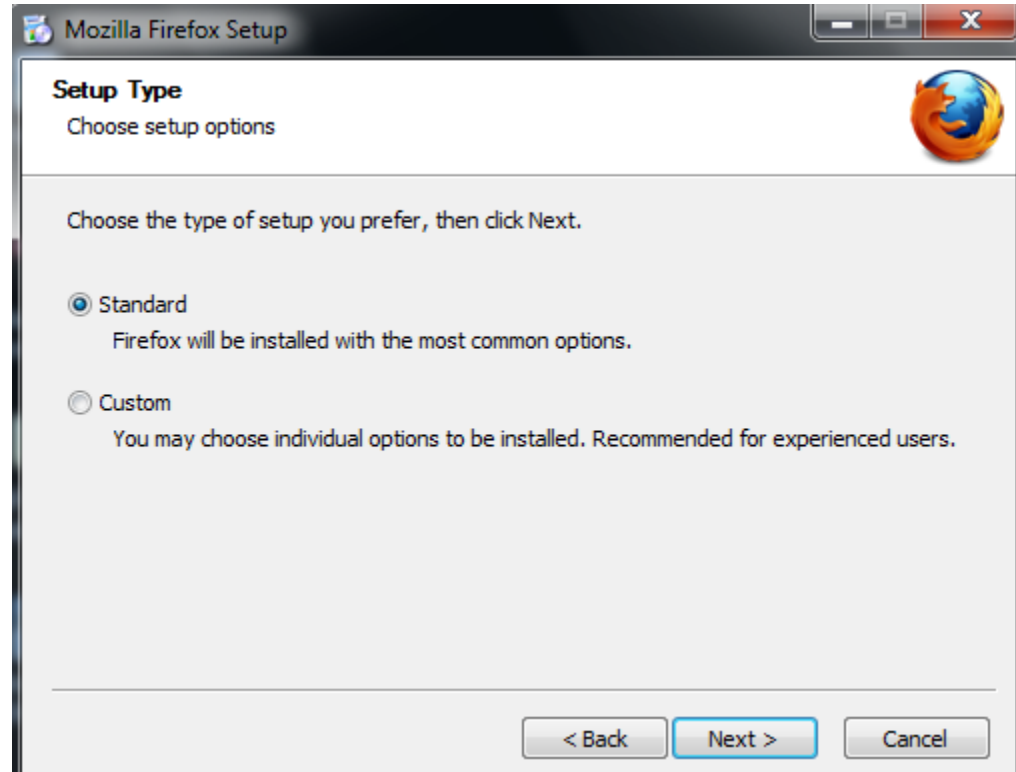
Click *Next*.

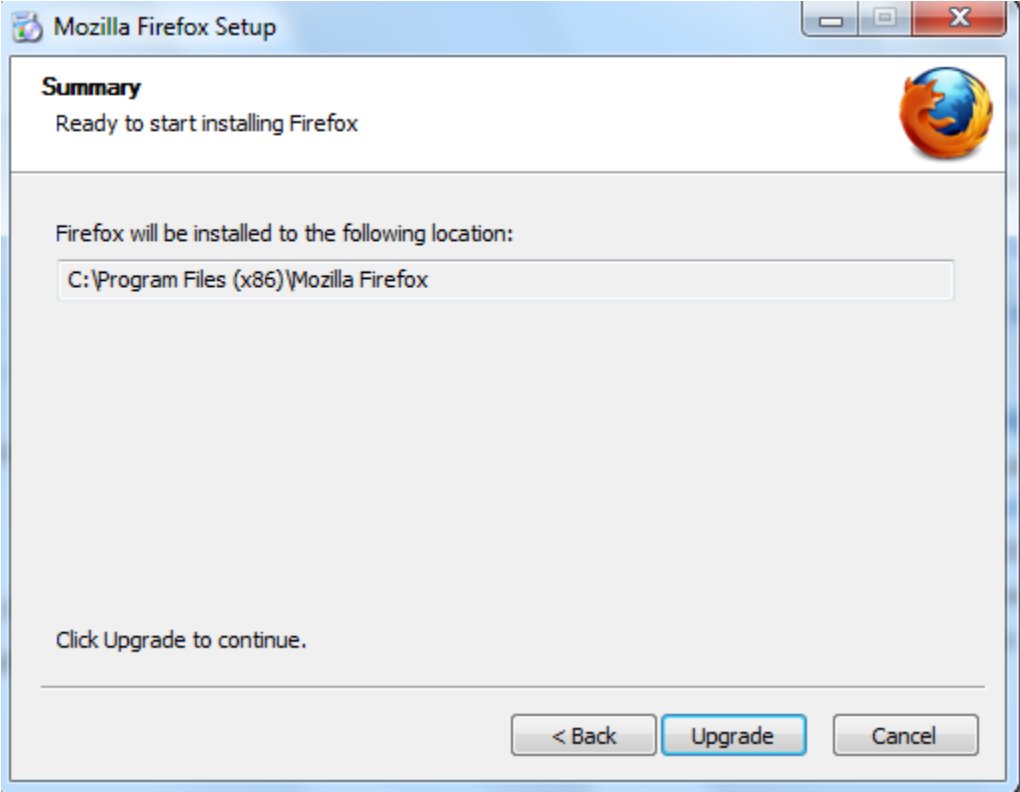


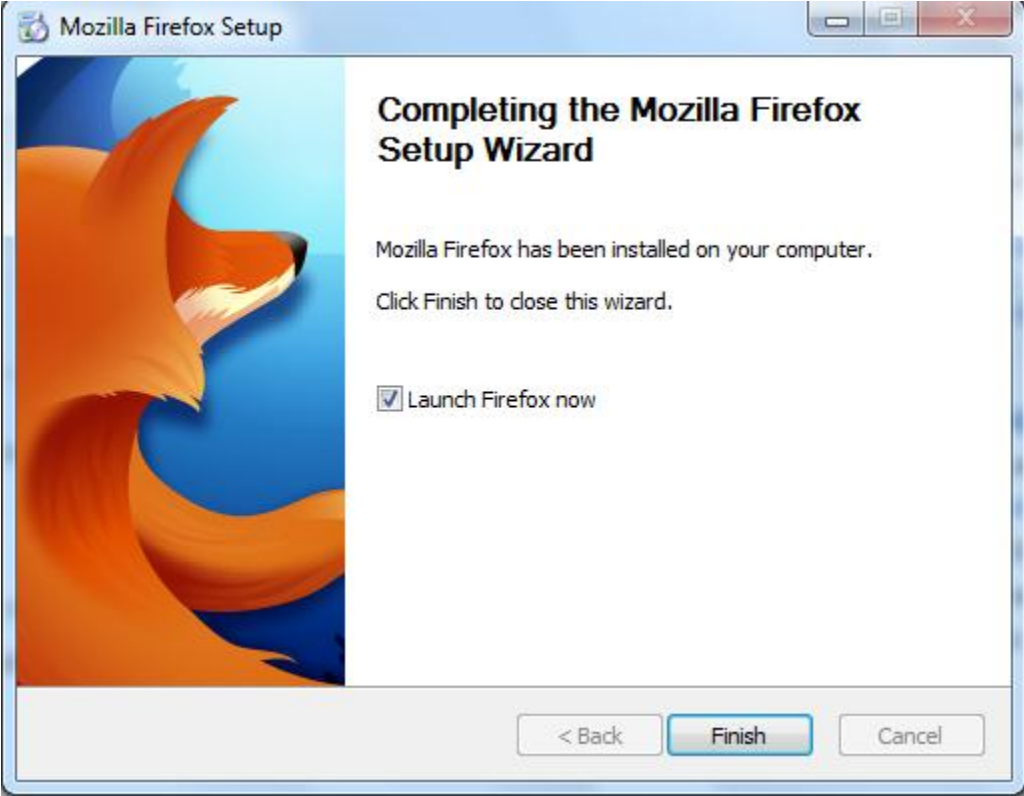
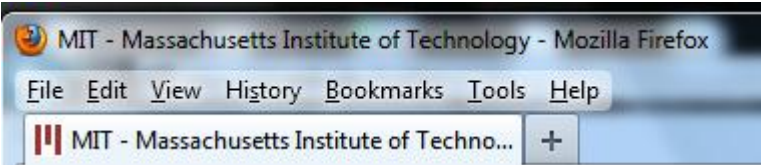
5


Leave the Setup Type option as *Standard*, which is the default.

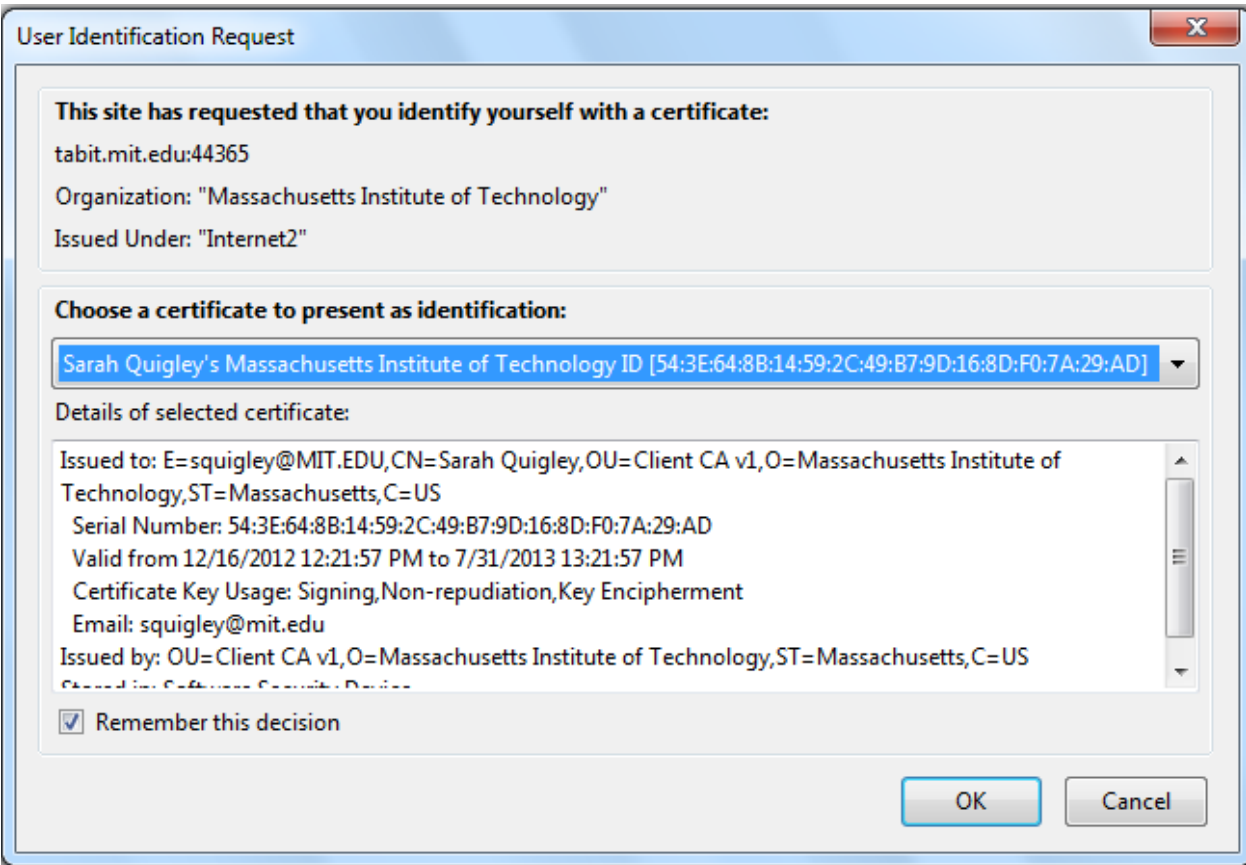
Click *Next*.




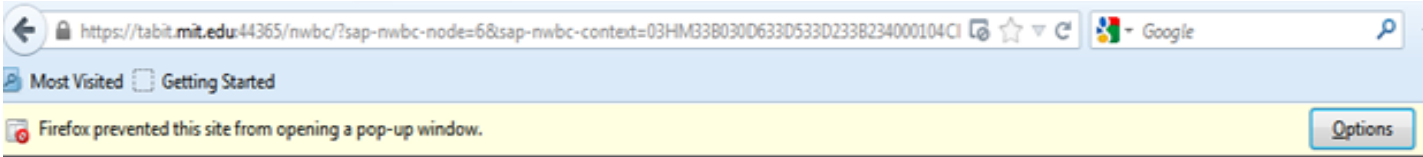
6	<p>A screen with the installation location on the C drive will appear.</p> <p>Click the <i>Upgrade or Install</i> button.</p>	
---	---	---

7	<p>The Firefox Installation will run for a few seconds. Leave the <i>Launch Firefox Now button</i> selected.</p> <p>Click the Finish button.</p>	
8	<p>The installation will complete, and you will should the Mozilla Firefox icon in the upper left corner of the MIT homepage.</p>	

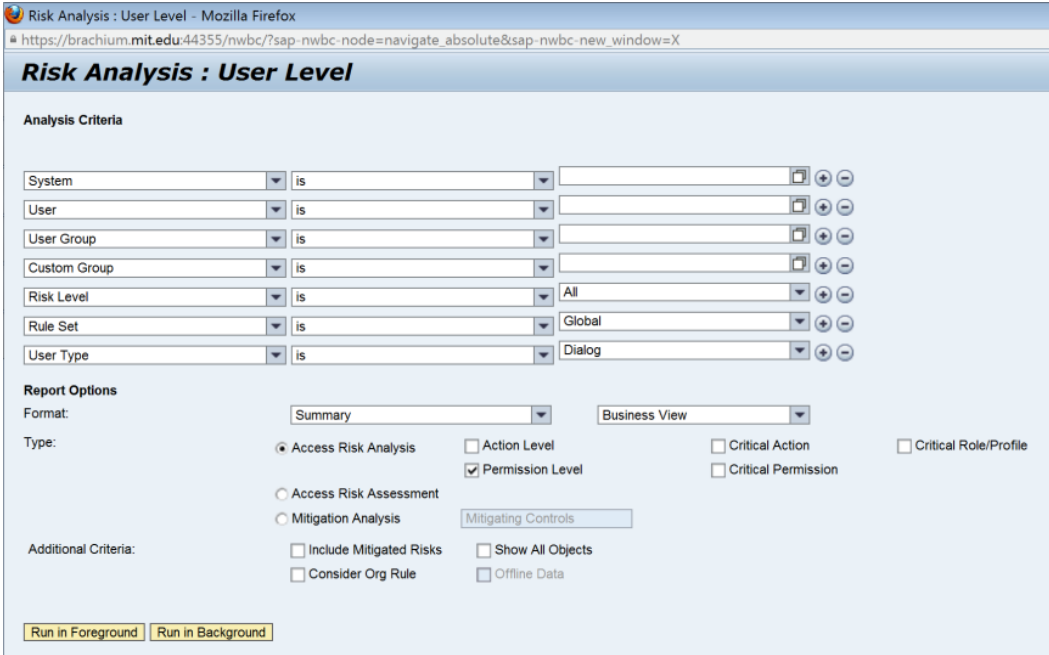

9	If you do not see the Firefox icon there, go to Start/Programs/Firefox, or double-click on the Firefox icon on the taskbar.	
10	Paste the URL for NetWeaver Business Client (NWBC) for GRC Test/QA into your Firefox browser.	https://tabit.mit.edu:44365/nwbc/?sap-client=330&sap-language=EN&sap-nwbc-node=root



11	<p>You will see a pop-up message requesting you select your certificate for the browser.</p> <p>Click OK.</p>	 <p>The image shows a 'User Identification Request' dialog box. It contains the following text:</p> <ul style="list-style-type: none"> This site has requested that you identify yourself with a certificate: tabit.mit.edu:44365 Organization: "Massachusetts Institute of Technology" Issued Under: "Internet2" Choose a certificate to present as identification: A dropdown menu showing: "Sarah Quigley's Massachusetts Institute of Technology ID [54:3E:64:8B:14:59:2C:49:B7:9D:16:8D:F0:7A:29:AD]" Details of selected certificate: Issued to: E=squigley@MIT.EDU,CN=Sarah Quigley,OU=Client CA v1,O=Massachusetts Institute of Technology,ST=Massachusetts,C=US Serial Number: 54:3E:64:8B:14:59:2C:49:B7:9D:16:8D:F0:7A:29:AD Valid from 12/16/2012 12:21:57 PM to 7/31/2013 13:21:57 PM Certificate Key Usage: Signing,Non-repudiation,Key Encipherment Email: squigley@mit.edu Issued by: OU=Client CA v1,O=Massachusetts Institute of Technology,ST=Massachusetts,C=US Standard Software Security Device <input checked="" type="checkbox"/> Remember this decision Buttons: OK, Cancel
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12	<p>Please Note: If you receive an error related to not having a valid certificate for Firefox, enter the URL below into your browser.</p> <p>https://ca.mit.edu/ca/</p> <p>In the fields under Identify Yourself, enter your Name, Kerberos ID, and Employee ID.</p> <p>Click Next.</p> <p>You will see your Certificate appear.</p> <p>Click OK.</p>	<div data-bbox="552 224 1793 1187"> <p>Steps: 1. 2. 3.</p> <h2>I. Identify Yourself</h2> <p>You will need certificates on each computer and browser that you use, unless you only work on Athena workstations. What is an MIT certificate? Learn more.</p> <p>Learn more about IS&T supported browsers.</p> <p>Get the MIT Certificate Authority Certificate</p> <p>Privacy Notice: The information you supply below is encrypted and sent to the certificate server where it is used briefly to generate your certificate and then erased.</p> <div> <p>Kerberos username: <input type="text"/> What's this?</p> <p>(Your MIT Kerberos name)</p> </div> <div> <p>Kerberos password: <input type="password"/> What's this?</p> <p>(Your Kerberos password)</p> </div> <div> <p>MIT ID Number: <input type="text"/> What's this?</p> <p>(nine-digit number from your picture ID that looks like this: 9xxxxxxx)</p> </div> <p><input type="button" value="Next >>"/></p> </div>
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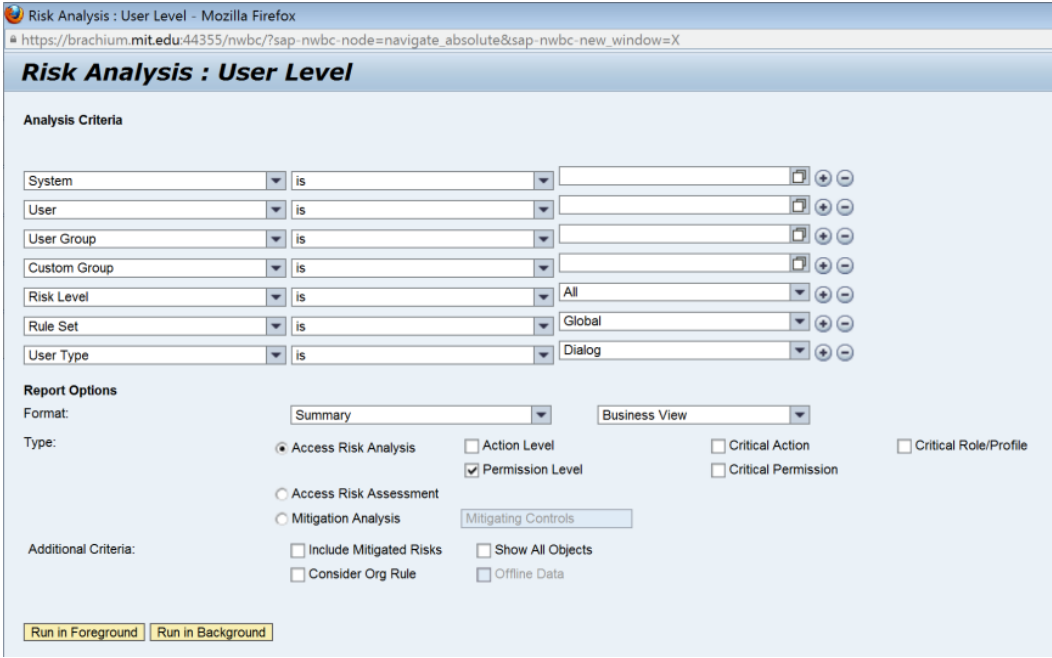
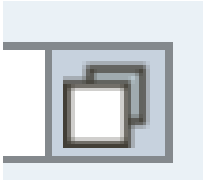
<p>13</p>	<p>The NetWeaver Business Client (NWBC) screen will open. Select the <i>Reports and Analytics</i> Tab at the top. This is where we will start running GRC Reports during GRC training class.</p>	
<p>14</p>	<p>If you see a message in the upper left corner of the NWBC screen at any time which says '<i>Firefox prevented this site from opening a pop-up window,</i>' click the <i>Options</i> button in the upper right corner, and select <i>Always allow</i> for the site tabit.mit.edu.</p>	

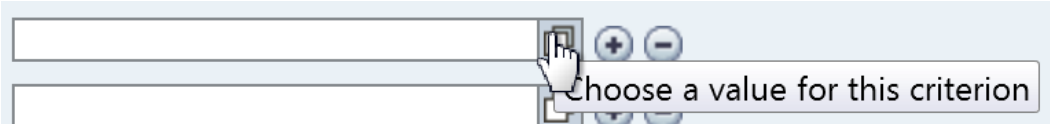
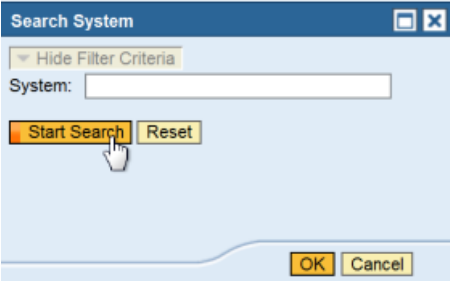
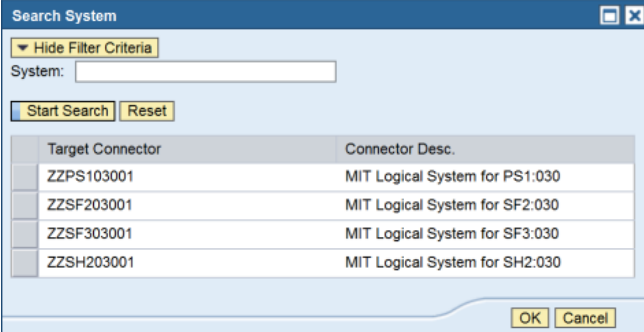
Reference R2 Add or Remove Search Lines to a Report

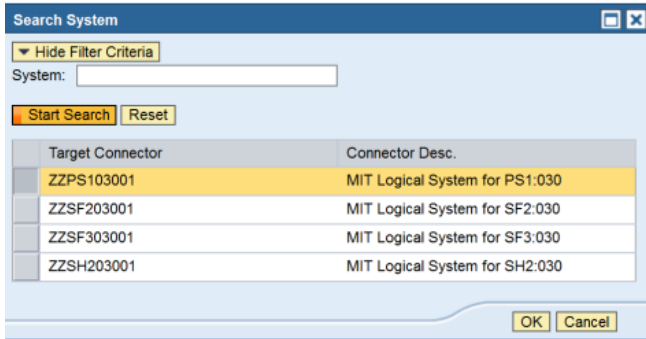
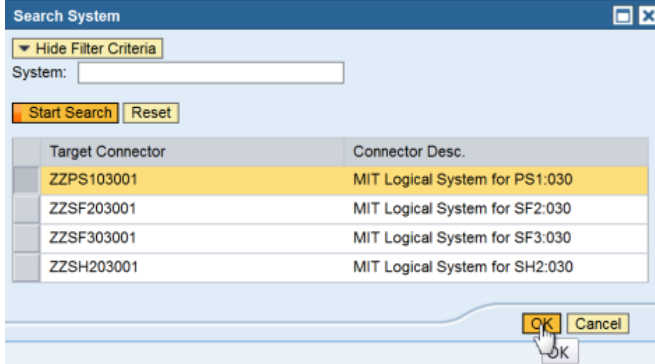
Step	Description	Screenshot
1	Execute a report containing Analysis Criteria.	
2	Note the '+' and '-' signs at the end of each Analysis Criteria row.	

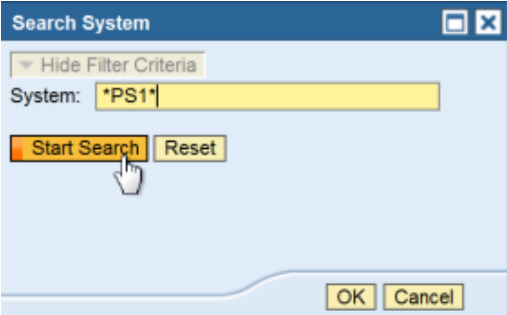
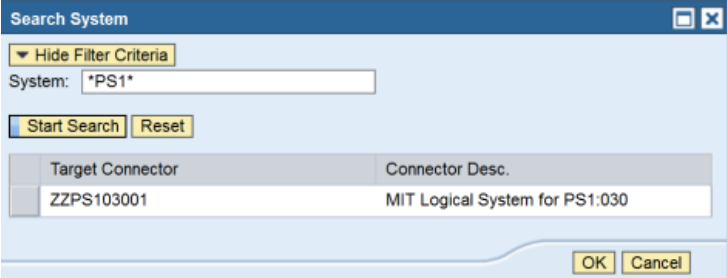
3	<p>Click on the '-' sign to remove an Analysis Criteria row.</p> <p>NOTE: If a row is not being used, it should be removed to ensure the report executes correctly.</p>	
4	<p>Click on the '+' sign to add an Analysis Criteria row.</p> <p>NOTE: If a row is added, the criterion category for that row can be changed using the drop down in the first column. Similarly, the operand for the criterion can be changed using the drop down in the second column.</p>	

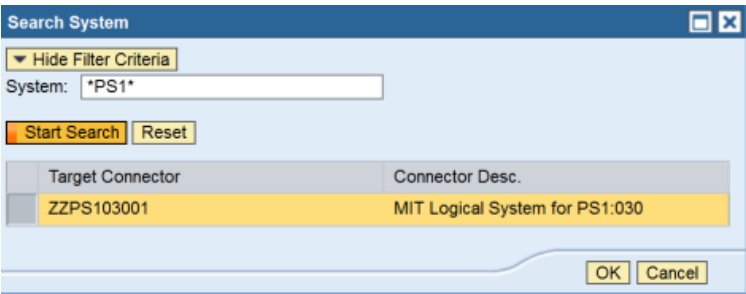
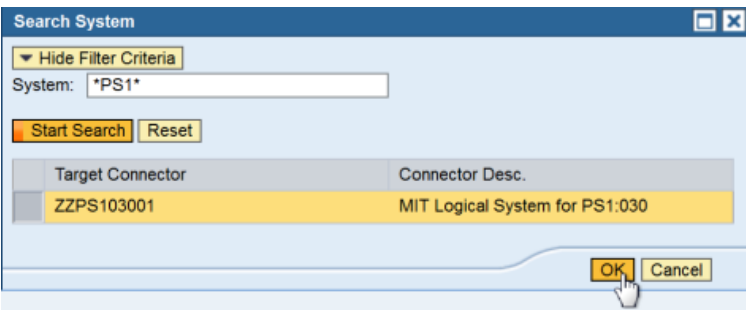
Reference R3 Search for Input Values

Step	Description	Screenshot
1	Execute a report containing Analysis Criteria.	
2	<p>Note the input icon in the last column of some Analysis Criteria rows.</p> <p>Input values can only be searched for criteria rows with this icon</p>	

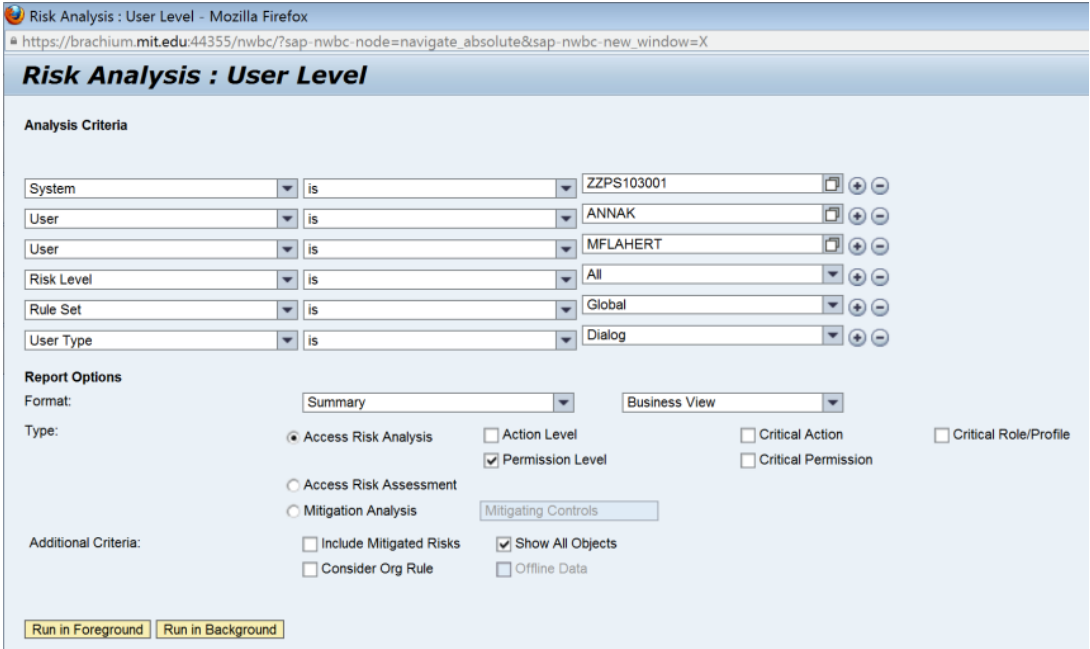

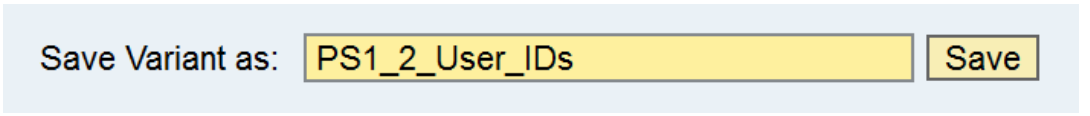
3	<p>Click on the input icon to search for a value.</p> <p>In this example, the input icon for the 'System' row was clicked.</p>											
4A-1	<p>Click on 'Start Search' to carry out an open search.</p> <p>NOTE: If there are a large number of input values available, an open search is NOT recommended.</p>											
4A-2	<p>A set of possible input values will be returned.</p>	 <table><thead><tr><th>Target Connector</th><th>Connector Desc.</th></tr></thead><tbody><tr><td>ZZPS103001</td><td>MIT Logical System for PS1:030</td></tr><tr><td>ZZSF203001</td><td>MIT Logical System for SF2:030</td></tr><tr><td>ZZSF303001</td><td>MIT Logical System for SF3:030</td></tr><tr><td>ZZSH203001</td><td>MIT Logical System for SH2:030</td></tr></tbody></table>	Target Connector	Connector Desc.	ZZPS103001	MIT Logical System for PS1:030	ZZSF203001	MIT Logical System for SF2:030	ZZSF303001	MIT Logical System for SF3:030	ZZSH203001	MIT Logical System for SH2:030
Target Connector	Connector Desc.											
ZZPS103001	MIT Logical System for PS1:030											
ZZSF203001	MIT Logical System for SF2:030											
ZZSF303001	MIT Logical System for SF3:030											
ZZSH203001	MIT Logical System for SH2:030											

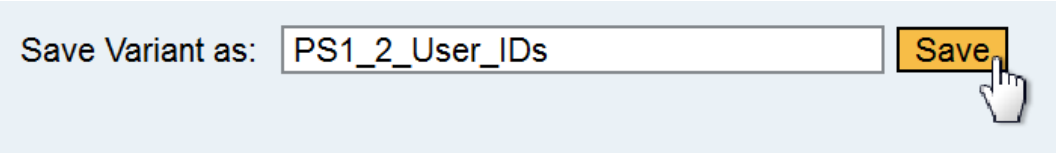
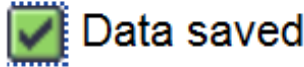
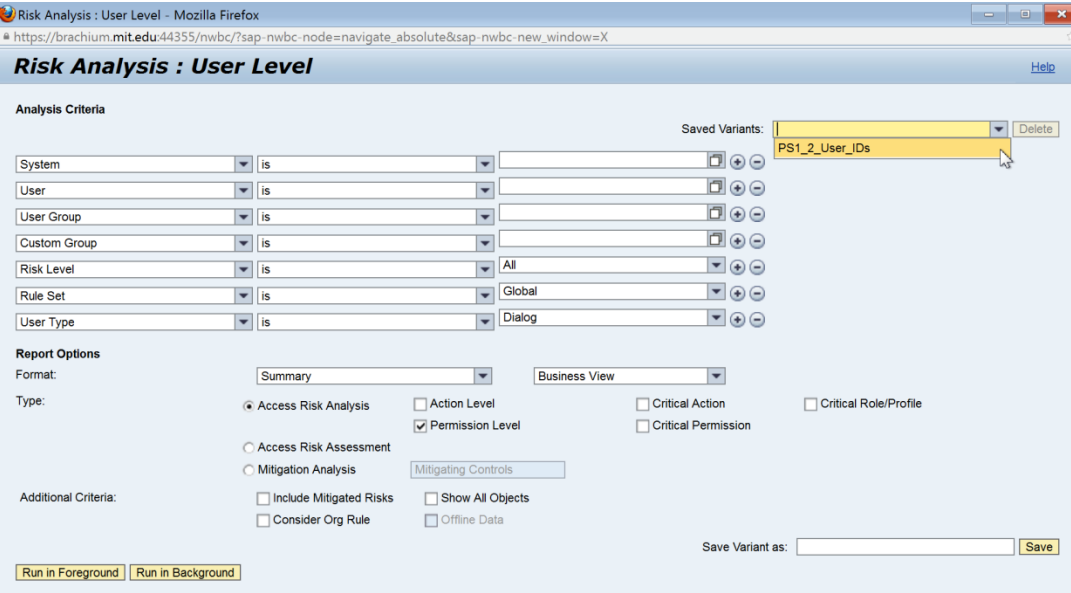
4A-3	Click on the required input value.	 <p>The screenshot shows a 'Search System' dialog box. At the top, there is a 'System:' text box and two buttons: 'Start Search' (highlighted in orange) and 'Reset'. Below this is a table with two columns: 'Target Connector' and 'Connector Desc.'. The table contains four rows of data, with the first row highlighted in yellow.</p> <table><thead><tr><th>Target Connector</th><th>Connector Desc.</th></tr></thead><tbody><tr><td>ZZPS103001</td><td>MIT Logical System for PS1:030</td></tr><tr><td>ZZSF203001</td><td>MIT Logical System for SF2:030</td></tr><tr><td>ZZSF303001</td><td>MIT Logical System for SF3:030</td></tr><tr><td>ZZSH203001</td><td>MIT Logical System for SH2:030</td></tr></tbody></table> <p>At the bottom right of the dialog box are 'OK' and 'Cancel' buttons.</p>	Target Connector	Connector Desc.	ZZPS103001	MIT Logical System for PS1:030	ZZSF203001	MIT Logical System for SF2:030	ZZSF303001	MIT Logical System for SF3:030	ZZSH203001	MIT Logical System for SH2:030
Target Connector	Connector Desc.											
ZZPS103001	MIT Logical System for PS1:030											
ZZSF203001	MIT Logical System for SF2:030											
ZZSF303001	MIT Logical System for SF3:030											
ZZSH203001	MIT Logical System for SH2:030											
4A-4	Click 'OK' to enter the selected input value as your search criteria for that row.	 <p>This screenshot is identical to the previous one, but it shows a mouse cursor clicking the 'OK' button at the bottom right of the dialog box.</p>										

<p>4B-1</p>	<p>Enter a search value and click on 'Start Search' to carry out an open search. In this case '*PS1*' was entered.</p> <p>NOTE: For some searches, such as that for a particular user or role, a system will have to be defined to limit the search. In such cases, the system name with surrounding asteriks (i.e. *PS1*) is the recommended entry.</p>	
<p>4B-2</p>	<p>A set of possible input values will be returned.</p>	

4B-3	Click on the required input value.	
4B-4	Click 'OK' to enter the selected input value as your search criteria for that row.	

Reference R4 Save a Variant

Step	Description	Screenshot
1	Execute a report and define the Analysis Criteria and Report Options required for the variant.	
2	Note the 'Save Variant as' bar on the bottom right of the report screen.	
3	Input a name for the report variant.	

4	Click on 'Save' to save the variant.	
5	A 'Data saved' message will appear	
6	<p>Next time the report is executed, note the 'Saved Variants' bar on the top right of the report screen.</p> <p>Click on the drop down menu and select the required variant.</p>	

7

The Analysis Criteria and Report Options defined for the variant will appear in the report.

The screenshot shows a web browser window titled "Risk Analysis : User Level - Mozilla Firefox" with the URL "https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X". The page title is "Risk Analysis : User Level".

Analysis Criteria

Saved Variants: PS1_2_User_IDs [Delete]

System	is	ZZPS103001
Risk Level	is	All
Rule Set	is	Global
User	is	ANNAK
User	is	MFLAHERT
User Type	is	Dialog

Report Options

Format: Summary Business View

Type:

- ☒ Access Risk Analysis
 - ☐ Action Level
 - ☒ Permission Level
 - ☐ Critical Action
 - ☐ Critical Role/Profile
 - ☐ Critical Permission
- ☐ Access Risk Assessment
- ☐ Mitigation Analysis
 - ☐ Include Mitigated Risks
 - ☒ Show All Objects
 - ☐ Consider Org Rule
 - ☐ Offline Data

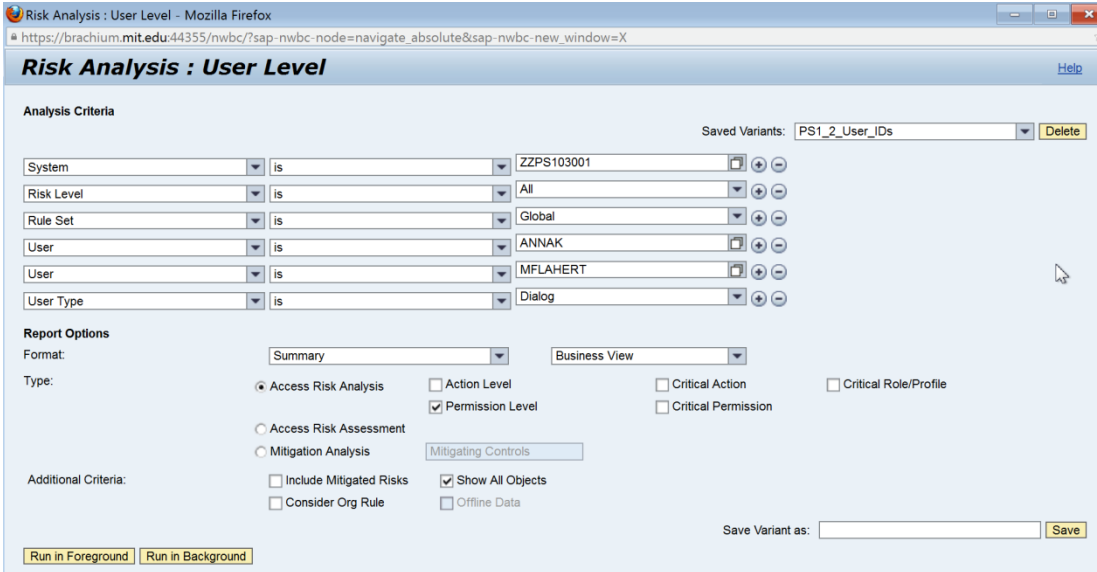

Additional Criteria:

Mitigating Controls

Save Variant as: [] [Save]

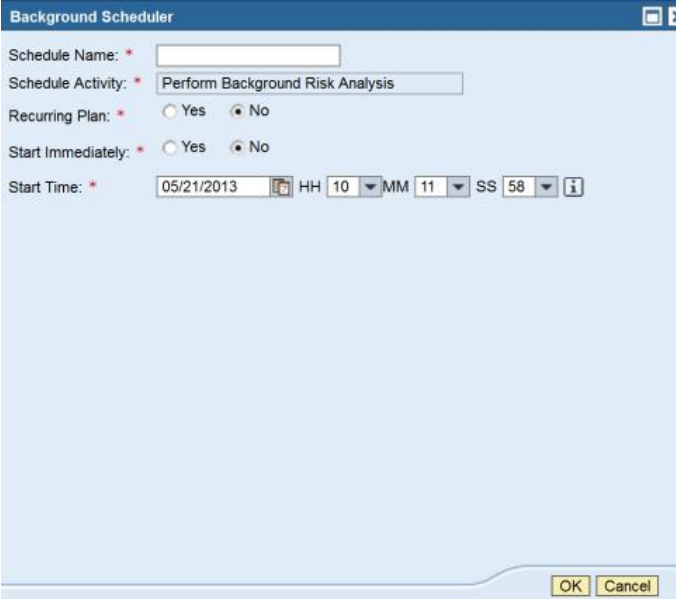
[Run in Foreground] [Run in Background]

Reference R5 Execute a Background Job

Step	Description	Screenshot
1	Execute a report and define the Analysis Criteria and Report Options required for the job.	
2	Click on the 'Run in Background' button on the bottom left of the report.	

3

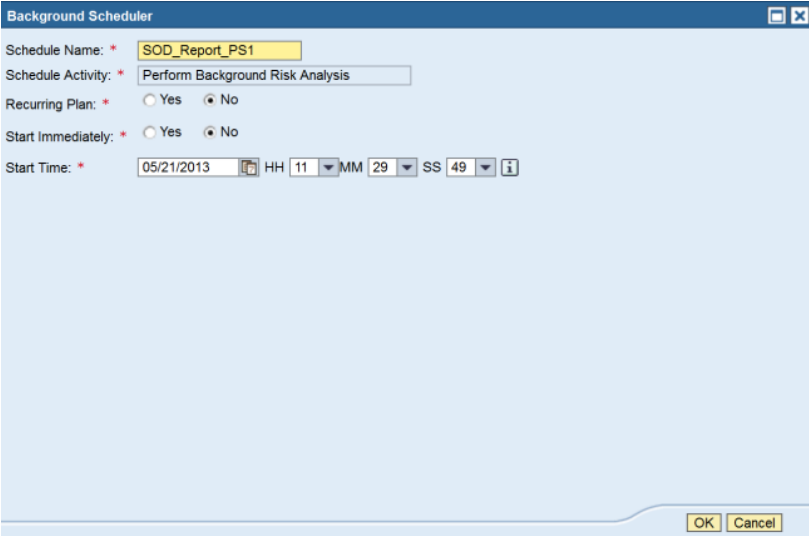
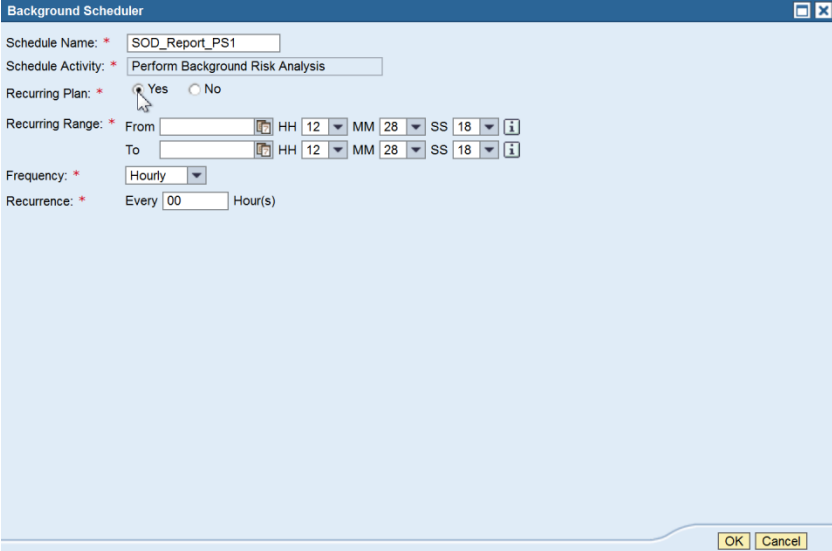
A 'Background Scheduler' window will appear.

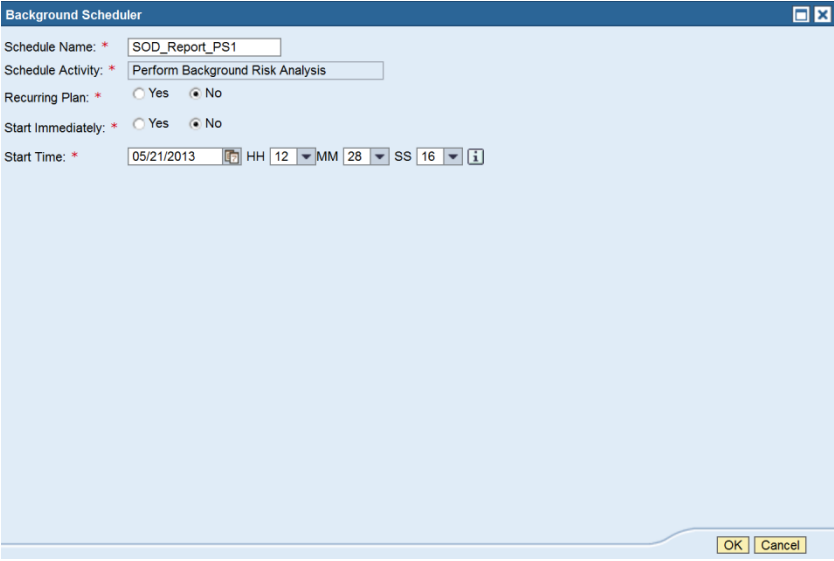


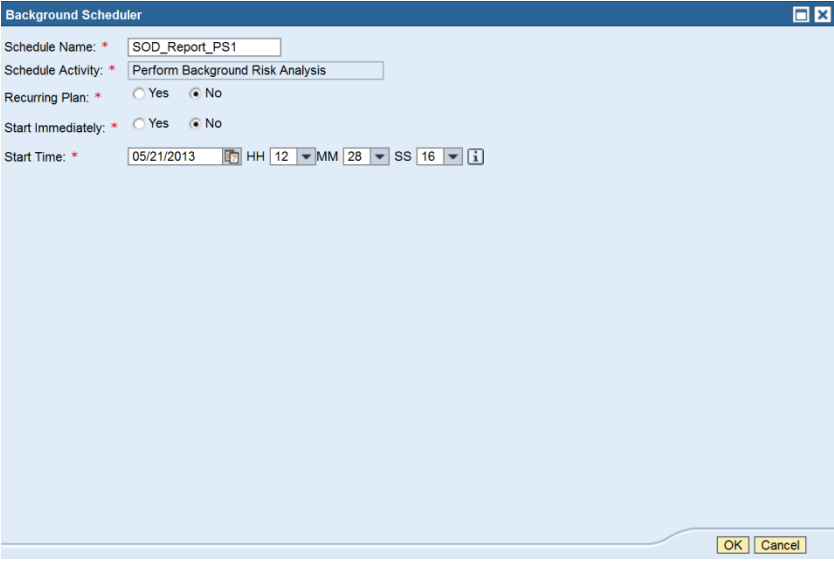
The screenshot shows a 'Background Scheduler' dialog box with the following fields and options:

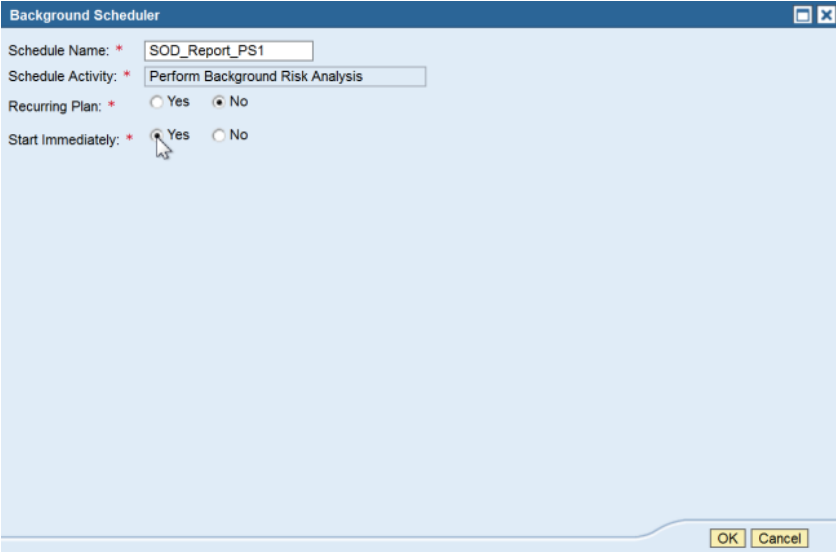
- Schedule Name:** * [Empty text box]
- Schedule Activity:** * Perform Background Risk Analysis
- Recurring Plan:** * ☐ Yes ☒ No
- Start Immediately:** * ☐ Yes ☒ No
- Start Time:** * 05/21/2013 [Calendar icon] HH 10 MM 11 SS 58 [Info icon]

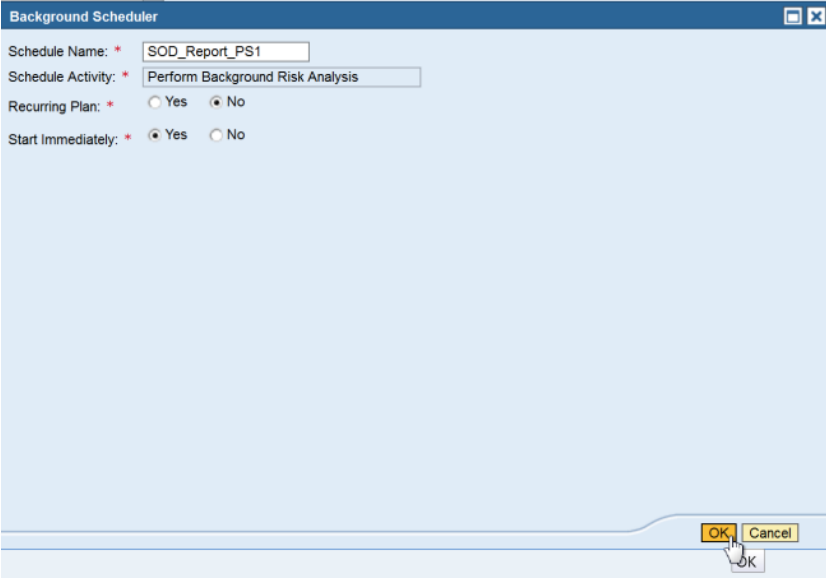


At the bottom right, there are 'OK' and 'Cancel' buttons.

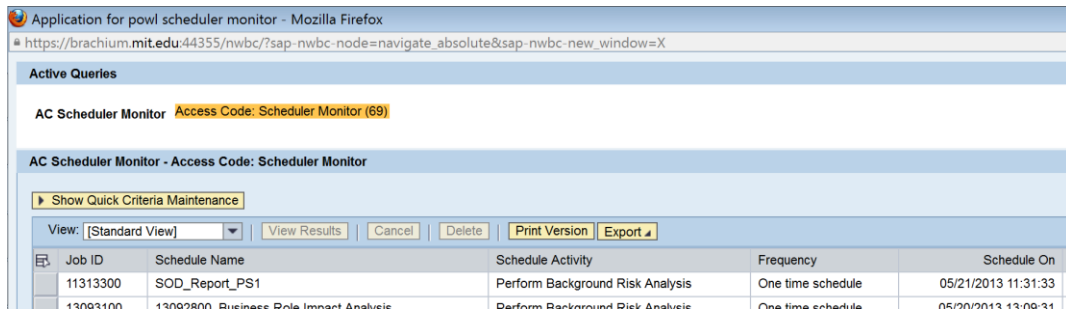
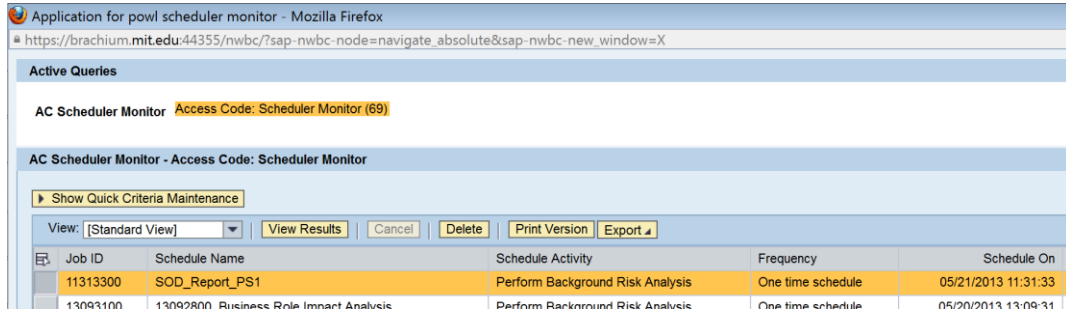
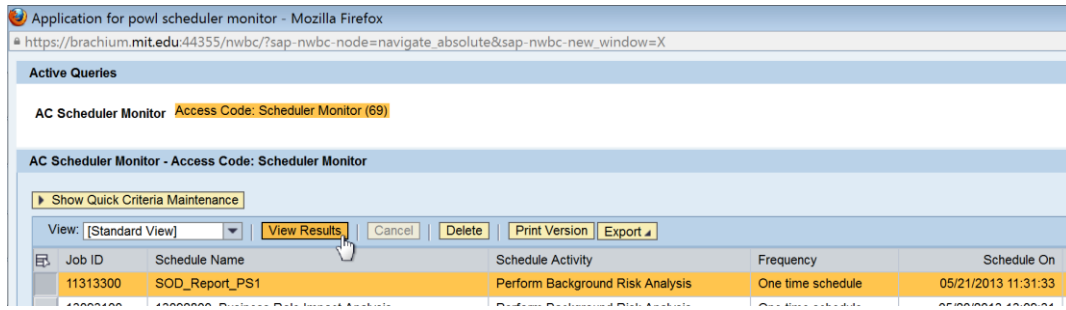
4	<p>Enter in the name of the background job. In this case, 'SOD_Report_PS1' was entered.</p>	
5	<p>If the job will be a recurring job, click on the 'Yes' dial button next to 'Recurring Plan'.</p> <p>Define the Recurrence Range, Frequency and Recurrence criteria.</p>	

6	<p>If the job must only be executed once, click on the 'No' dial button next to 'Recurring Plan'.</p>	
---	---	--

7	<p>If the job must be scheduled for a later date or time, click on the 'No' dial button next to 'Start Immediately' and enter the required 'Start Time' details.</p>	
---	--	--

8	If the job can be started immediately, click on the 'Yes' dial button next to 'Start Immediately' and enter the required 'Start Time' details.	
---	--	--

9	Once all background job criteria have been entered, click on 'OK'.	
10	Navigate to the 'Access Management' tab.	
11	Click on the 'Background Jobs' link located in the 'Scheduling' section.	

12	A list of all background jobs executed by the ID that is logged in will be displayed.	 <p>Application for powl scheduler monitor - Mozilla Firefox https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X</p> <p>Active Queries</p> <p>AC Scheduler Monitor Access Code: Scheduler Monitor (69)</p> <p>AC Scheduler Monitor - Access Code: Scheduler Monitor</p> <p>Show Quick Criteria Maintenance</p> <p>View: [Standard View] View Results Cancel Delete Print Version Export</p> <table><thead><tr><th>Job ID</th><th>Schedule Name</th><th>Schedule Activity</th><th>Frequency</th><th>Schedule On</th></tr></thead><tbody><tr><td>11313300</td><td>SOD_Report_PS1</td><td>Perform Background Risk Analysis</td><td>One time schedule</td><td>05/21/2013 11:31:33</td></tr><tr><td>13093100</td><td>13092800 Business Role Inmport Analysis</td><td>Perform Background Risk Analysis</td><td>One time schedule</td><td>05/20/2013 13:09:31</td></tr></tbody></table>	Job ID	Schedule Name	Schedule Activity	Frequency	Schedule On	11313300	SOD_Report_PS1	Perform Background Risk Analysis	One time schedule	05/21/2013 11:31:33	13093100	13092800 Business Role Inmport Analysis	Perform Background Risk Analysis	One time schedule	05/20/2013 13:09:31
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13	Select the background job for which information is required.	 <p>Application for powl scheduler monitor - Mozilla Firefox https://brachium.mit.edu:44355/nwbc/?sap-nwbc-node=navigate_absolute&sap-nwbc-new_window=X</p> <p>Active Queries</p> <p>AC Scheduler Monitor Access Code: Scheduler Monitor (69)</p> <p>AC Scheduler Monitor - Access Code: Scheduler Monitor</p> <p>Show Quick Criteria Maintenance</p> <p>View: [Standard View] View Results Cancel Delete Print Version Export</p> <table><thead><tr><th>Job ID</th><th>Schedule Name</th><th>Schedule Activity</th><th>Frequency</th><th>Schedule On</th></tr></thead><tbody><tr><td>11313300</td><td>SOD_Report_PS1</td><td>Perform Background Risk Analysis</td><td>One time schedule</td><td>05/21/2013 11:31:33</td></tr><tr><td>13093100</td><td>13092800 Business Role Inmport Analysis</td><td>Perform Background Risk Analysis</td><td>One time schedule</td><td>05/20/2013 13:09:31</td></tr></tbody></table>	Job ID	Schedule Name	Schedule Activity	Frequency	Schedule On	11313300	SOD_Report_PS1	Perform Background Risk Analysis	One time schedule	05/21/2013 11:31:33	13093100	13092800 Business Role Inmport Analysis	Perform Background Risk Analysis	One time schedule	05/20/2013 13:09:31
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15

The results for the report that was executed in the background will be displayed.

Job Result

Analysis Criteria

Analysis Results

Result Set: Result Set 1 [Go](#) [Previous](#) [Next](#) [Export Result Sets](#)

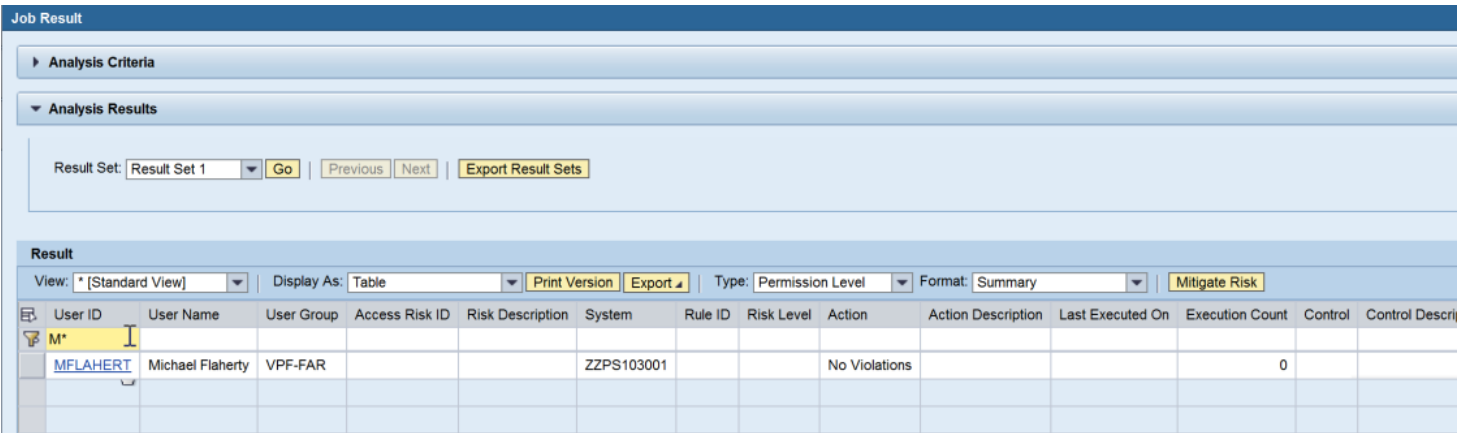
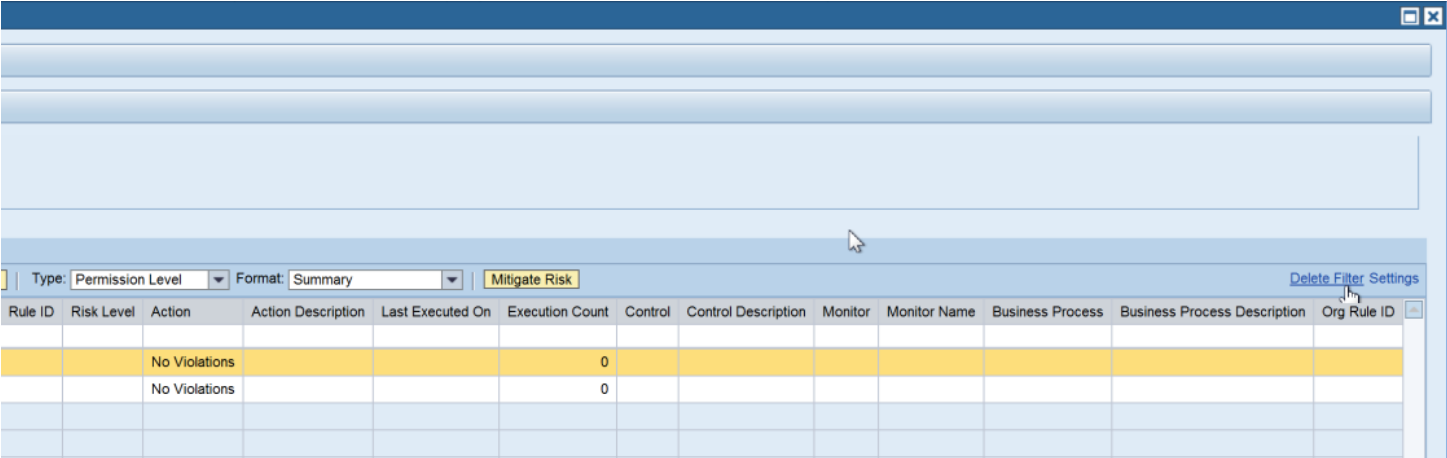
Result

View: [Standard View] Display As: Table [Print Version](#) [Export](#) Type: Permission Level Format: Summary [Mitigate Risk](#)

User ID	User Name	User Group	Access Risk ID	Risk Description	System	Rule ID	Risk Level	Action	Action Description	Last Executed On	Execution Count	Control	Control Description
ANNAK	Anna A Kovaleva	VPF-AP			ZZPS103001			No Violations			0		
MELAHERT	Michael Flaherty	VPF-FAR			ZZPS103001			No Violations			0		

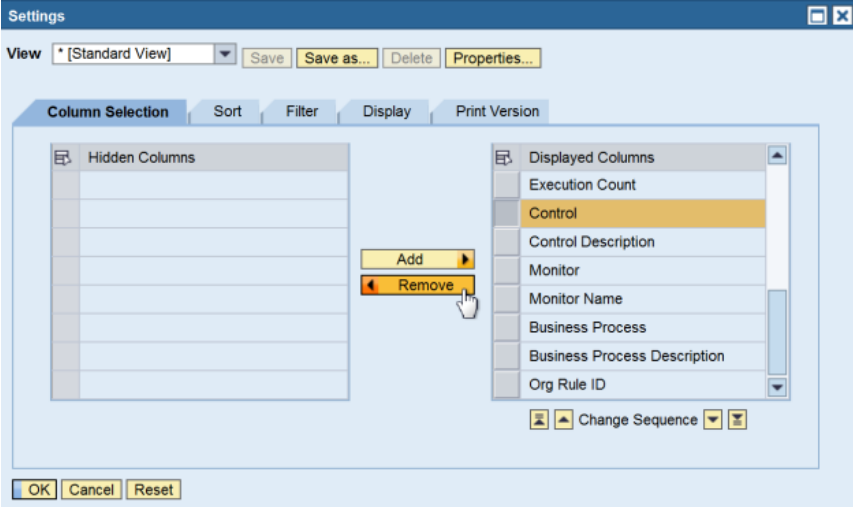
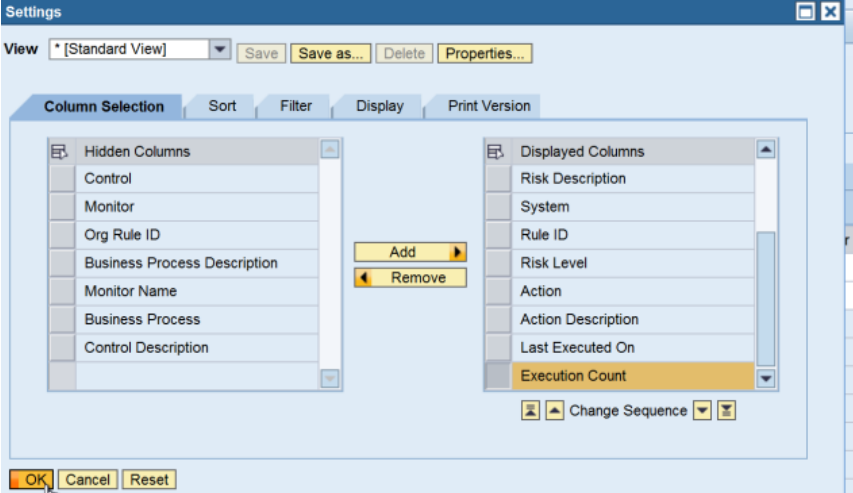
Reference R6 Filter a Report

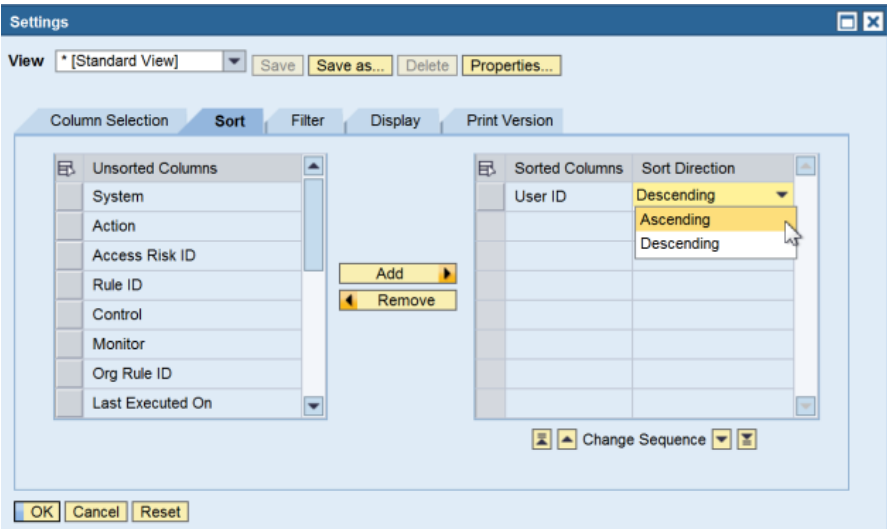
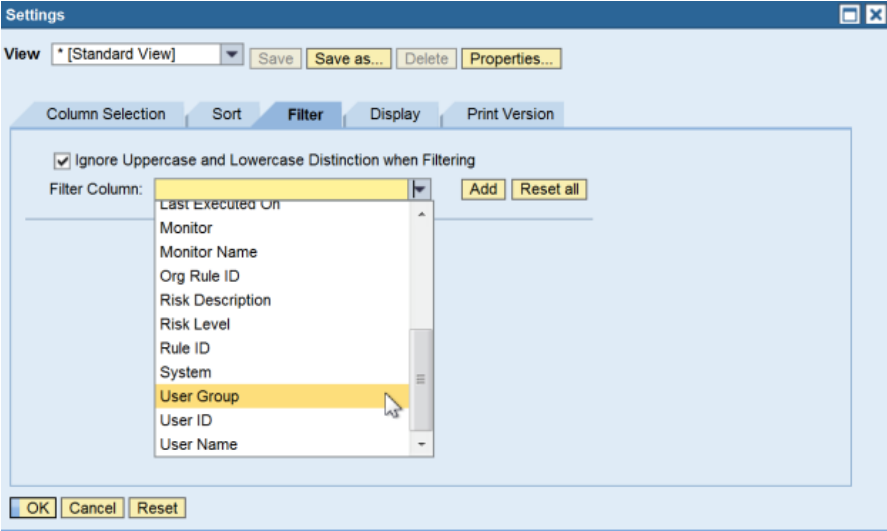
Step	Description	Screenshot																																										
1	Execute a report in the foreground or background and view the results.	<div><div>Job Result</div><div><div>Analysis Criteria</div><div>Analysis Results</div></div><div>Result Set: Result Set 1 Go Previous Next Export Result Sets</div><div><div>Result</div><div>View: [Standard View] Display As: Table Print Version Export Type: Permission Level Format: Summary Mitigate Risk</div><table><tr><th>User ID</th><th>User Name</th><th>User Group</th><th>Access Risk ID</th><th>Risk Description</th><th>System</th><th>Rule ID</th><th>Risk Level</th><th>Action</th><th>Action Description</th><th>Last Executed On</th><th>Execution Count</th><th>Control</th><th>Control Description</th></tr><tr><td>ANNAK</td><td>Anna A Kovaleva</td><td>VPF-AP</td><td></td><td></td><td>ZZPS103001</td><td></td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td></tr><tr><td>MFLAHERT</td><td>Michael Flaherty</td><td>VPF-FAR</td><td></td><td></td><td>ZZPS103001</td><td></td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td></tr></table></div></div>	User ID	User Name	User Group	Access Risk ID	Risk Description	System	Rule ID	Risk Level	Action	Action Description	Last Executed On	Execution Count	Control	Control Description	ANNAK	Anna A Kovaleva	VPF-AP			ZZPS103001			No Violations			0			MFLAHERT	Michael Flaherty	VPF-FAR			ZZPS103001			No Violations			0		
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2	Scroll to the right side of the report and click on the 'Filter' link on the top right of the report.	<div><div><div>Type: Permission Level Format: Summary Mitigate Risk</div><div><div><div>Filter Settings</div></div></div><table><tr><th>Rule ID</th><th>Risk Level</th><th>Action</th><th>Action Description</th><th>Last Executed On</th><th>Execution Count</th><th>Control</th><th>Control Description</th><th>Monitor</th><th>Monitor Name</th><th>Business Process</th><th>Business Process Description</th><th>Org Rule ID</th></tr><tr><td></td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div></div>	Rule ID	Risk Level	Action	Action Description	Last Executed On	Execution Count	Control	Control Description	Monitor	Monitor Name	Business Process	Business Process Description	Org Rule ID			No Violations			0										No Violations			0										
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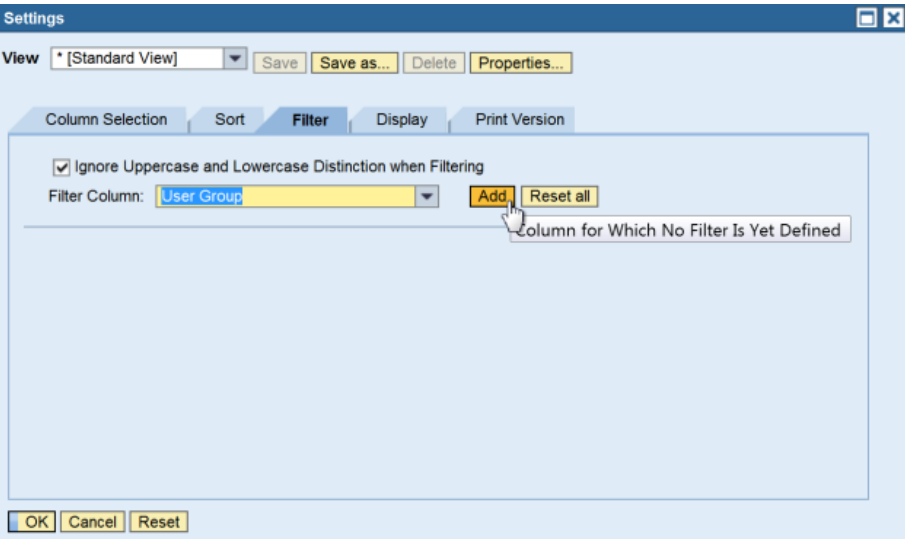
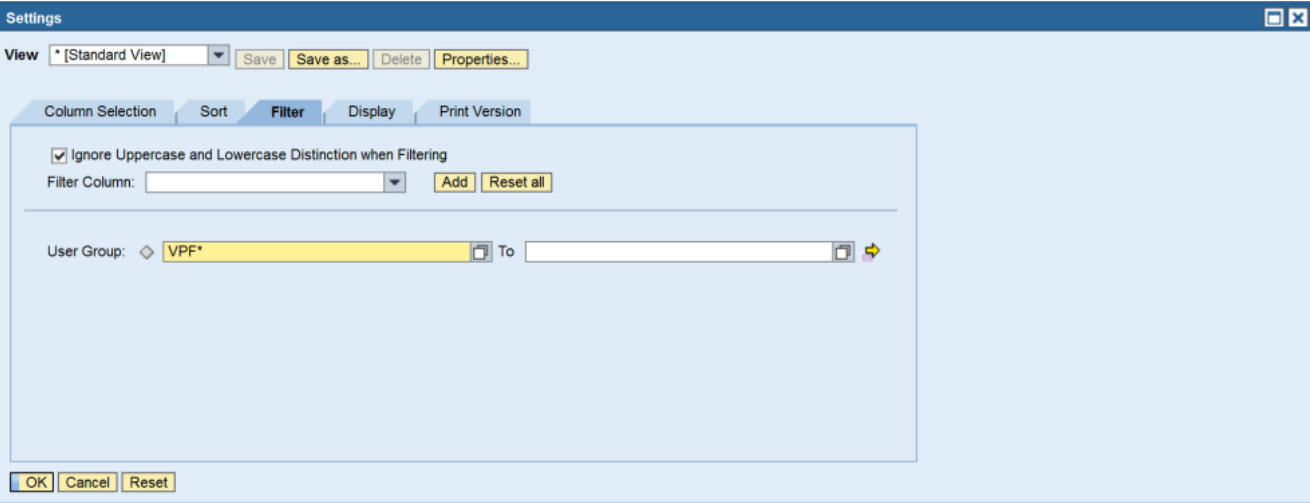
3	<p>A filter row will appear at the top of the report.</p> <p>Enter filter criteria. Asteriks may be used.</p>	 <p>The screenshot shows the 'Job Result' report interface. At the top, there is a 'Filter' row with a search bar containing 'M*'. Below this, the 'Analysis Results' section shows a table with columns: User ID, User Name, User Group, Access Risk ID, Risk Description, System, Rule ID, Risk Level, Action, Action Description, Last Executed On, Execution Count, Control, and Control Description. The table contains one row for user 'MFLAHERT' with 'No Violations'.</p>
4	<p>Remove the filter by clicking on the 'Delete Filter' link on the top right of the report.</p>	 <p>The screenshot shows the 'Job Result' report interface with the filter removed. The 'Filter' row is no longer present. The table now shows multiple rows with 'No Violations' and '0' in the 'Execution Count' column. A 'Delete Filter Settings' link is visible in the top right corner of the report area.</p>

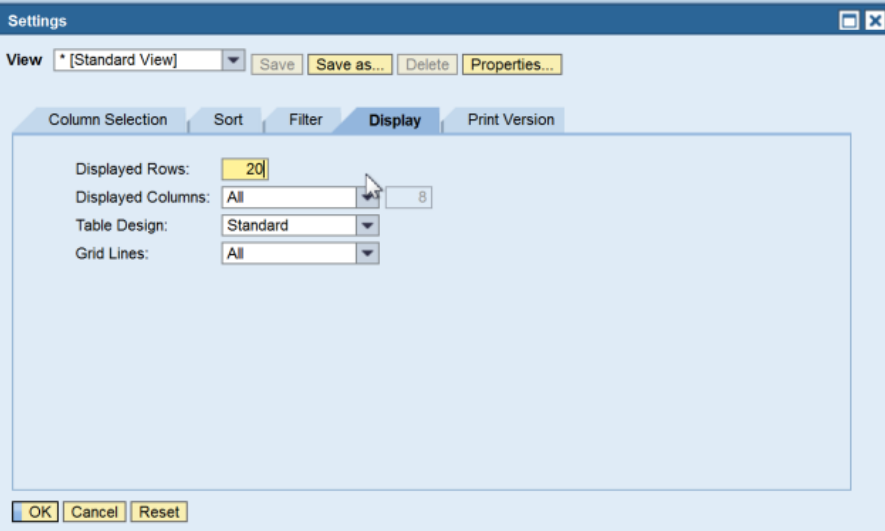
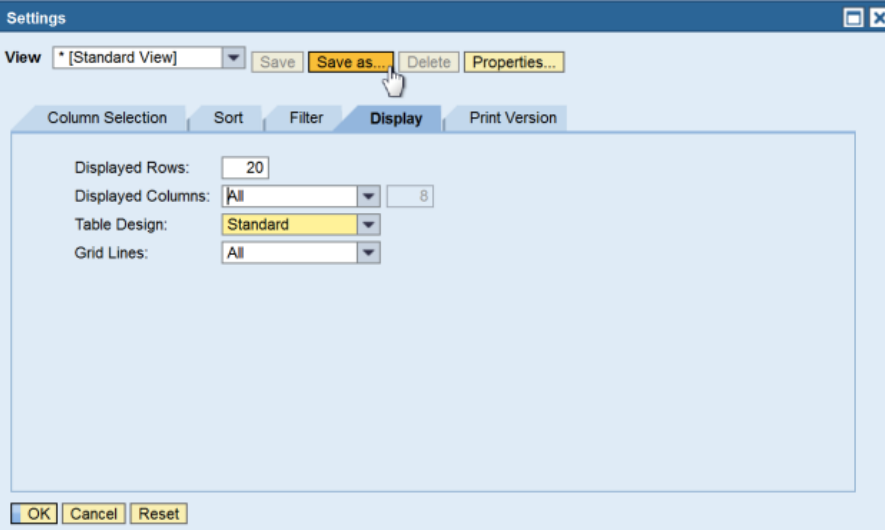
Reference R7 Change Your Report View

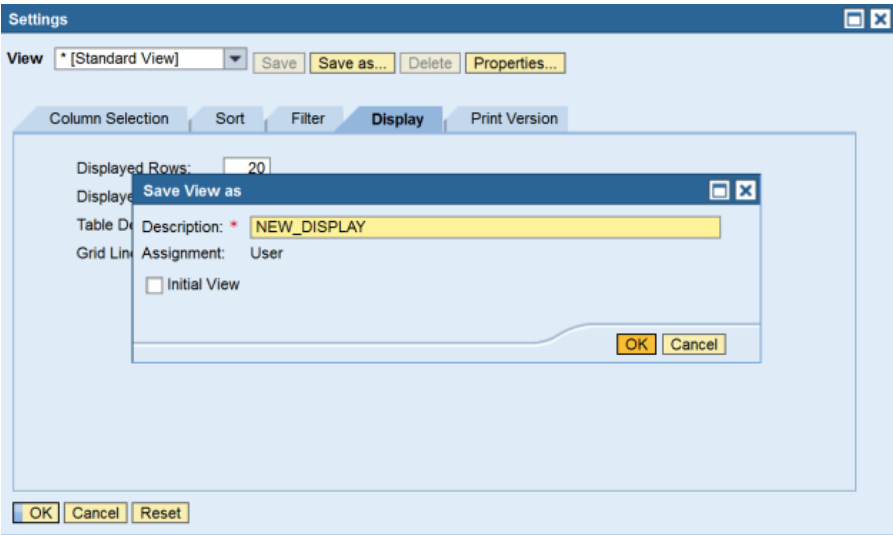
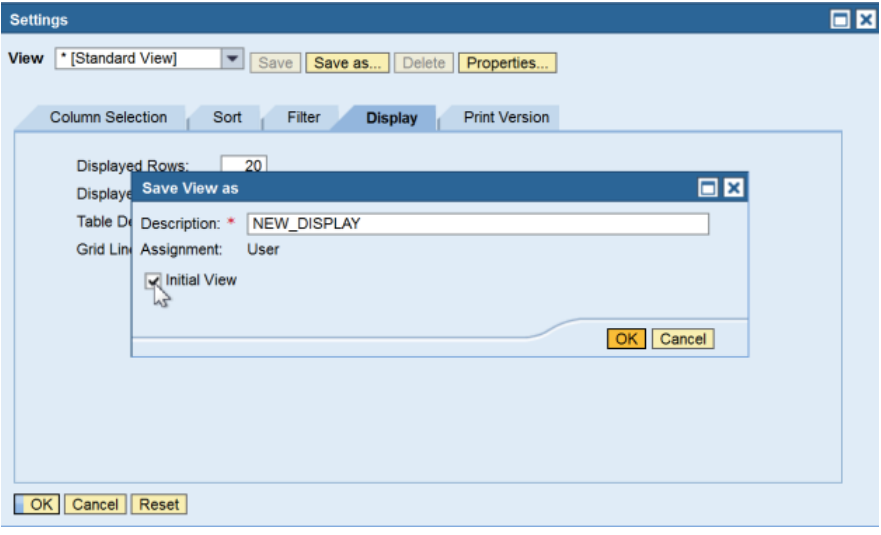
Step	Description	Screenshot																																										
1	Execute a report in the foreground or background and view the results.	<div><div>Job Result</div><div><div>Analysis Criteria</div><div>Analysis Results</div></div><div>Result Set: <div>Result Set 1</div> <div>Go</div> <div>Previous</div> <div>Next</div> <div>Export Result Sets</div></div><div><div>Result</div><div>View: <div>Standard View</div> Display As: <div>Table</div> <div>Print Version</div> <div>Export</div> Type: <div>Permission Level</div> Format: <div>Summary</div> <div>Mitigate Risk</div></div><table><tr><th>User ID</th><th>User Name</th><th>User Group</th><th>Access Risk ID</th><th>Risk Description</th><th>System</th><th>Rule ID</th><th>Risk Level</th><th>Action</th><th>Action Description</th><th>Last Executed On</th><th>Execution Count</th><th>Control</th><th>Control Description</th></tr><tr><td>ANNAK</td><td>Anna A Kovaleva</td><td>VPF-AP</td><td></td><td></td><td>ZZPS103001</td><td></td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td></tr><tr><td>MFLAHERT</td><td>Michael Flaherty</td><td>VPF-FAR</td><td></td><td></td><td>ZZPS103001</td><td></td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td></tr></table></div></div>	User ID	User Name	User Group	Access Risk ID	Risk Description	System	Rule ID	Risk Level	Action	Action Description	Last Executed On	Execution Count	Control	Control Description	ANNAK	Anna A Kovaleva	VPF-AP			ZZPS103001			No Violations			0			MFLAHERT	Michael Flaherty	VPF-FAR			ZZPS103001			No Violations			0		
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2	Scroll to the right side of the report and click on the 'Settings' link on the top right of the report.	<div><div><div>Type: <div>Permission Level</div> Format: <div>Summary</div> <div>Mitigate Risk</div></div><div><div>Filter Settings</div></div><table><tr><th>Rule ID</th><th>Risk Level</th><th>Action</th><th>Action Description</th><th>Last Executed On</th><th>Execution Count</th><th>Control</th><th>Control Description</th><th>Monitor</th><th>Monitor Name</th><th>Business Process</th><th>Business Process Description</th><th>Org Rule ID</th></tr><tr><td></td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div></div>	Rule ID	Risk Level	Action	Action Description	Last Executed On	Execution Count	Control	Control Description	Monitor	Monitor Name	Business Process	Business Process Description	Org Rule ID			No Violations			0										No Violations			0										
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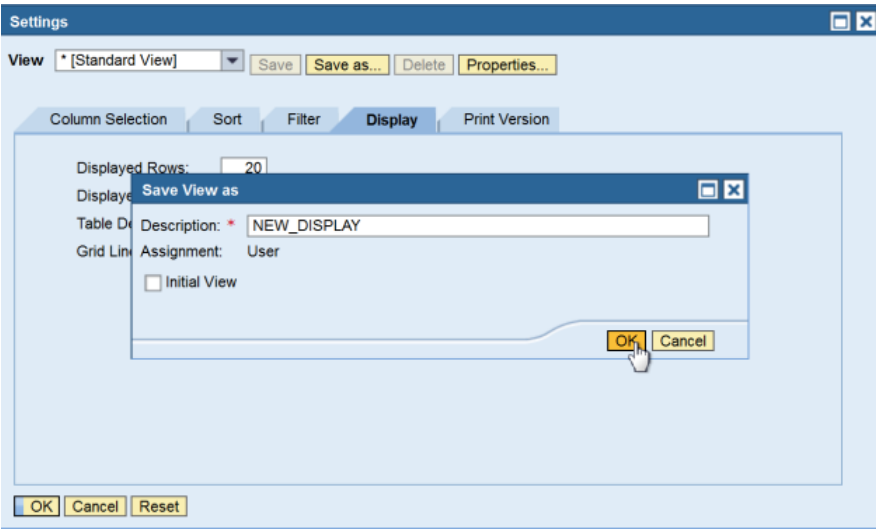
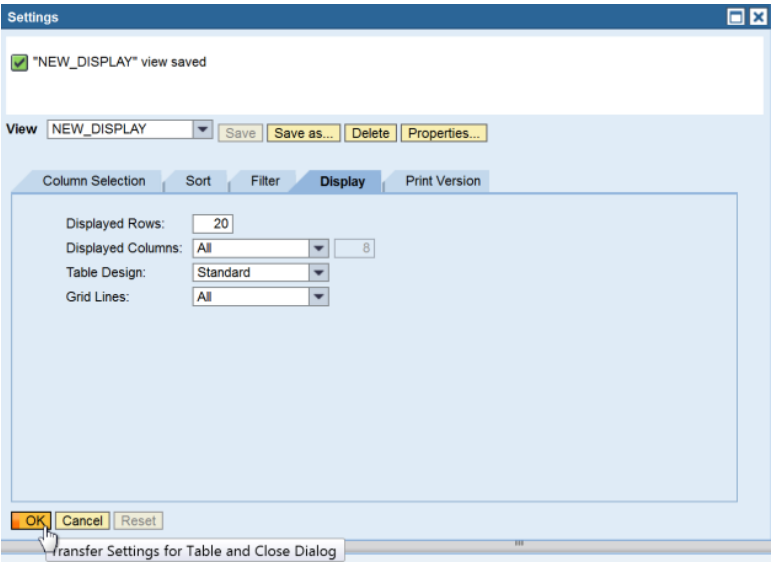
3	<p>A 'Settings' window will appear where different view settings can be defined.</p> <p>Click on the 'Column Selection' tab to add/remove columns to/from the report.</p>	
4	<p>Use the icons below the 'Displayed Columns' list to change the order in which columns are displayed.</p>	

5	<p>Click on the 'Sort' tab to define which columns in the report should be sorted, and how they should be sorted.</p>	
6	<p>Click on the 'Filter' tab to define any columns that should be filtered.</p> <p>Click on the 'Filter Column' drop down and select a column.</p>	

7	<p>Once the column is selected, click on 'Add'.</p>	
8	<p>For the column that was added, in this case, 'User Group', enter the filter that should be used.</p> <p>In this example, 'VPF*' is entered to restrict the report to user groups that begin with 'VPF'.</p>	

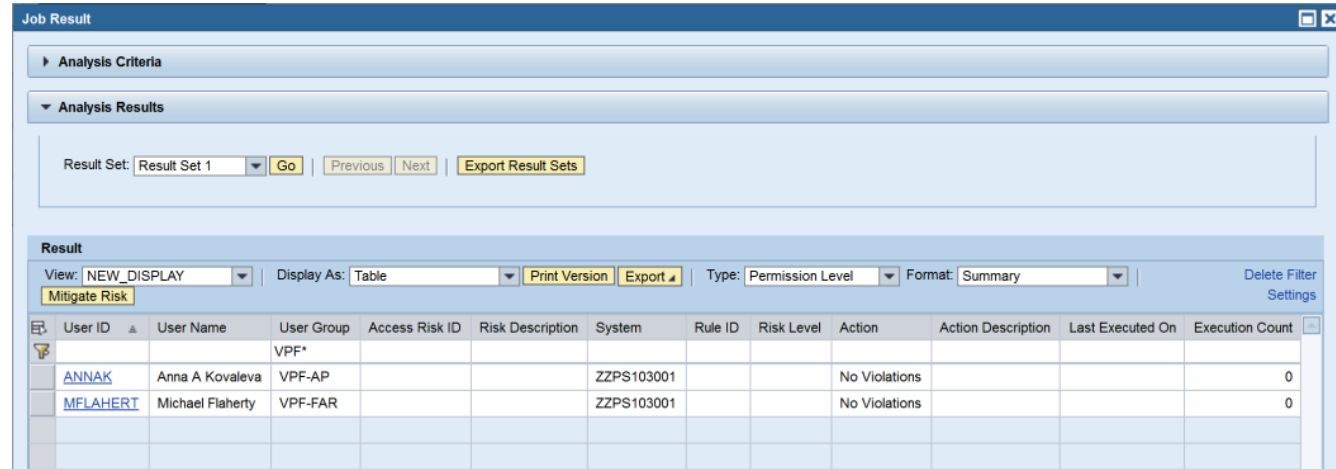
9	Click on the 'Display' tab to change the table display settings for the report.	
10	To save the settings as a view variant, click on the 'Save as...' button.	

11	Enter a name for the view variant in the 'Description' field. In this case, 'NEW_DISPLAY' is entered.	 <p>The screenshot shows the 'Settings' dialog box with the 'Display' tab selected. A 'Save View as' sub-dialog is open, allowing the user to save the current view configuration. The 'Description' field is populated with 'NEW_DISPLAY'. The 'Assignment' is set to 'User'. The 'Initial View' checkbox is currently unchecked.</p>
12	To make the new view variant the default initial view for the report, check the 'Initial View' box.	 <p>This screenshot shows the same 'Settings' dialog box, but the 'Initial View' checkbox in the 'Save View as' sub-dialog is now checked, indicating that the new view variant 'NEW_DISPLAY' is being set as the default initial view for the report.</p>

13	Click on 'OK' to save.	
14	A message will appear to confirm the view settings have been saved.	

15

The next time the report is run, it will default to the view that was defined and set as the 'Initial View'.



Job Result

Analysis Criteria

Analysis Results

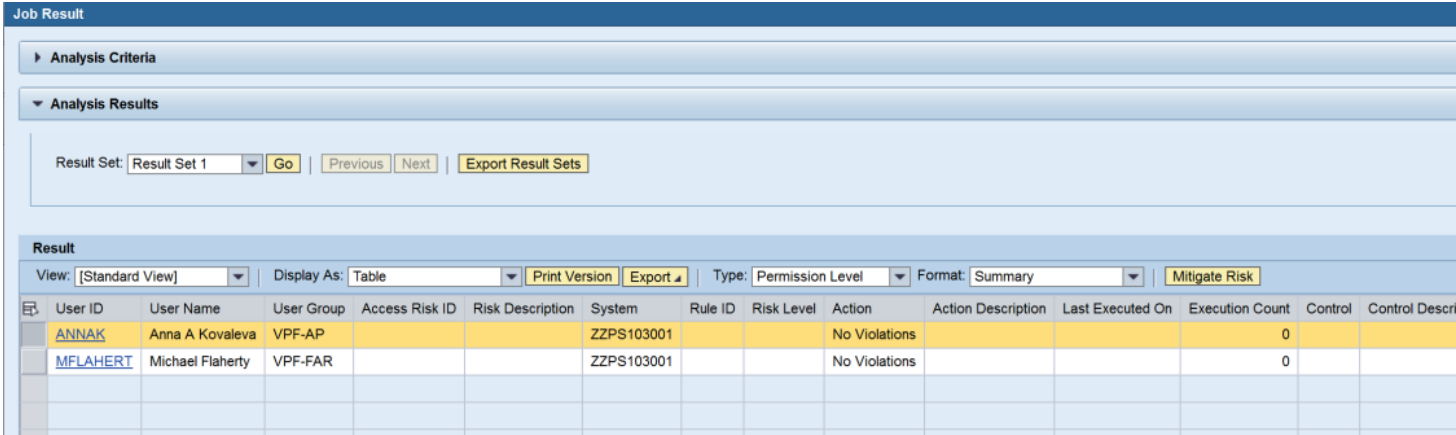
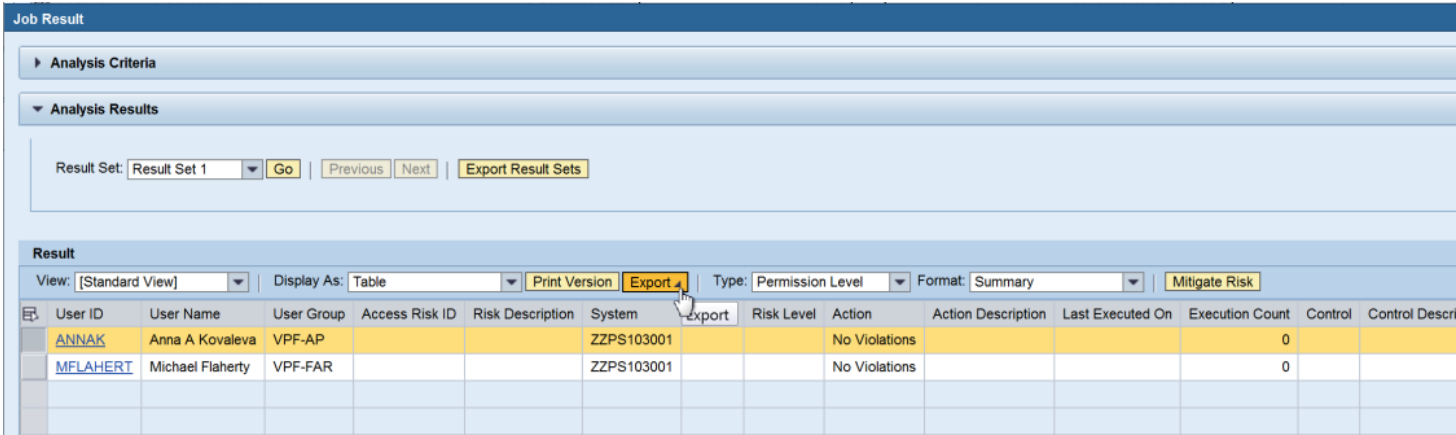
Result Set: Result Set 1 [Go](#) [Previous](#) [Next](#) [Export Result Sets](#)

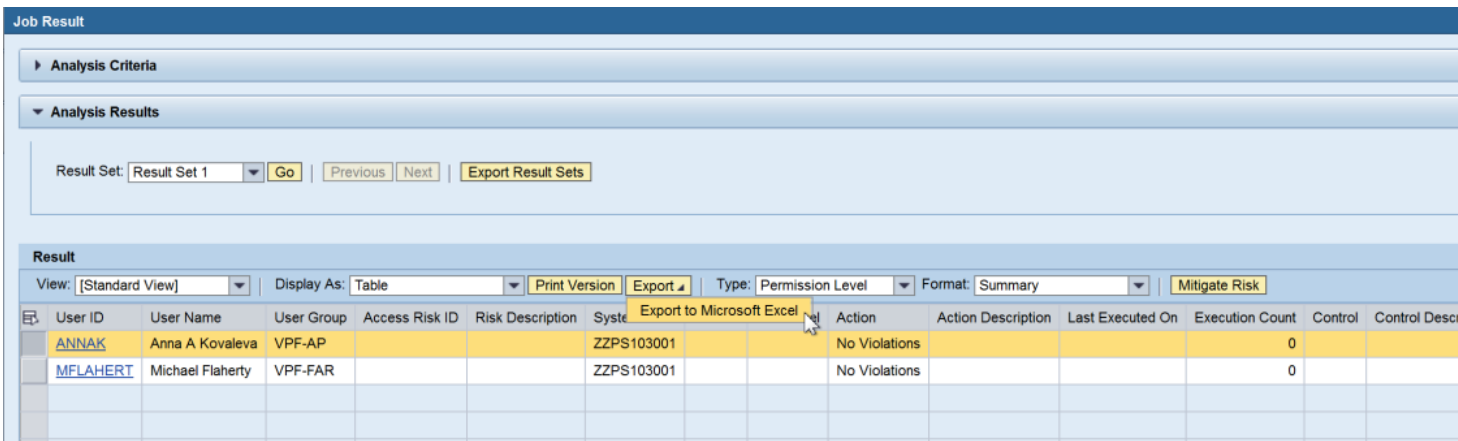
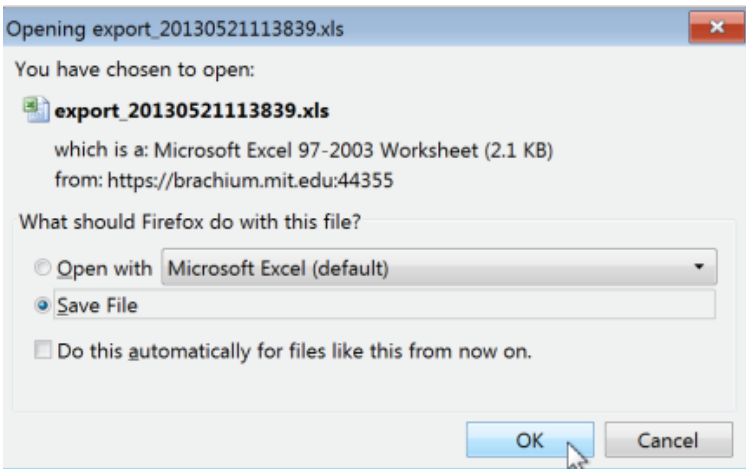
Result

View: NEW_DISPLAY [Mitigate Risk](#) Display As: Table [Print Version](#) [Export](#) Type: Permission Level Format: Summary [Delete Filter Settings](#)

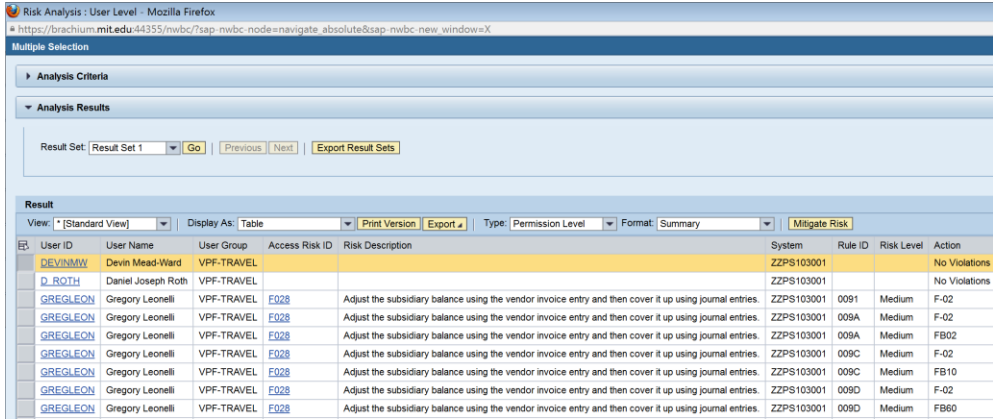
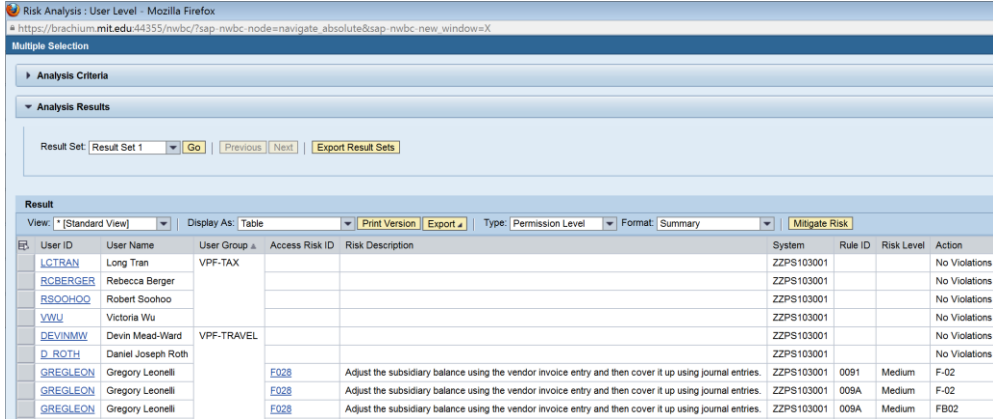
User ID	User Name	User Group	Access Risk ID	Risk Description	System	Rule ID	Risk Level	Action	Action Description	Last Executed On	Execution Count
		VPF*									
ANNAK	Anna A Kovaleva	VPF-AP			ZZPS103001			No Violations			0
MFLAHERT	Michael Flaherty	VPF-FAR			ZZPS103001			No Violations			0

Reference R8 Export Data from GRC

Step	Description	Screenshot
1	Execute a report in the foreground or background and view the results.	 <p>The screenshot shows the 'Job Result' page. Under 'Analysis Results', there is a 'Result Set' dropdown set to 'Result Set 1' with buttons for 'Go', 'Previous', 'Next', and 'Export Result Sets'. Below this, the 'Result' section has a 'View' dropdown set to '[Standard View]', a 'Display As' dropdown set to 'Table', and buttons for 'Print Version', 'Export', 'Type: Permission Level', 'Format: Summary', and 'Mitigate Risk'. A table of results follows with columns: User ID, User Name, User Group, Access Risk ID, Risk Description, System, Rule ID, Risk Level, Action, Action Description, Last Executed On, Execution Count, Control, and Control Description. Two rows are shown: one for Anna A Kovaleva (VPF-AP) and one for Michael Flaherty (VPF-FAR), both with 'No Violations' and an execution count of 0.</p>
2	Click on the 'Export' button to export the report from GRC.	 <p>This screenshot is identical to the first one, but a mouse cursor is hovering over the 'Export' button in the 'Result' section, indicating the action to be taken.</p>

3	<p>An 'Export to Microsoft Excel' button will appear. Click on the button to continue the export.</p>	 <p>The screenshot shows a 'Job Result' page with a table of analysis results. The 'Export to Microsoft Excel' button is highlighted in the top right corner of the table area.</p> <table><tr><th>User ID</th><th>User Name</th><th>User Group</th><th>Access Risk ID</th><th>Risk Description</th><th>Syste</th><th>Export to Microsoft Excel</th><th>Action</th><th>Action Description</th><th>Last Executed On</th><th>Execution Count</th><th>Control</th><th>Control Descri</th></tr><tr><td>ANNAK</td><td>Anna A Kovaleva</td><td>VPF-AP</td><td></td><td></td><td>ZZPS103001</td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td></tr><tr><td>MFLAHERT</td><td>Michael Flaherty</td><td>VPF-FAR</td><td></td><td></td><td>ZZPS103001</td><td></td><td>No Violations</td><td></td><td></td><td>0</td><td></td><td></td></tr></table>	User ID	User Name	User Group	Access Risk ID	Risk Description	Syste	Export to Microsoft Excel	Action	Action Description	Last Executed On	Execution Count	Control	Control Descri	ANNAK	Anna A Kovaleva	VPF-AP			ZZPS103001		No Violations			0			MFLAHERT	Michael Flaherty	VPF-FAR			ZZPS103001		No Violations			0		
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4	<p>The Firefox browser will open a download window. Select the required option and click 'OK'.</p> <p>If 'Save File' is selected, the file will be saved to the directory defined in Firefox. Otherwise, the file will open.</p>	 <p>The screenshot shows a Firefox download dialog box for the file 'export_20130521113839.xls'. The file is identified as a Microsoft Excel 97-2003 Worksheet (2.1 KB) from the URL 'https://brachium.mit.edu:44355'. The 'Save File' option is selected.</p>																																							

Reference R9 Simple Sort

Step	Description	Screenshot
1	Execute a report in the foreground or background and view the results.	 <p>The screenshot shows the 'Risk Analysis' application interface. The 'Analysis Results' section displays a table with columns: User ID, User Name, User Group, Access Risk ID, Risk Description, System, Rule ID, Risk Level, and Action. The table is sorted by 'User Group' in ascending order. The results show multiple entries for 'VFP-TRAVEL' and 'VFP-TAX' groups, with various risk descriptions and levels.</p>
2	<p>Click on the column header for the column which must be sorted. Click on the header once for an 'Ascending' sort and twice for a 'Descending' sort.</p> <p>In this example, the 'User Group' header was clicked once.</p>	 <p>This screenshot is identical to the one in Step 1, showing the 'Risk Analysis' application with the 'Analysis Results' table sorted by 'User Group' in ascending order. The table structure and data are the same as in the first screenshot.</p>

GRC Terminology

Term	Short term	Source	Meaning	Example
Action		GRC	A business function step, usually an SAP ECC transaction code.	FB01 Post an FI Document F-65 Park an FI Document ME21 Create a Purchase Order
Action Level		GRC	Term for analysis of risks at the SAP transaction code level, without looking at additional permissions (R/3 authorizations) which could otherwise eliminate the risk.	
Access Risk	Risk	GRC	<p>A GRC Access Risk is a description of a unique situation – a Critical Action /Role or a Segregation of Duties (SOD) breakdown.</p> <ul style="list-style-type: none"> The system has a delivered set of critical technical actions (like SE16, SM30 to amend database files) and roles, and these can be added to. The SOD risk will always have two parts, like Create Fictitious Vendor and Enter a fictitious Invoice. Each SOD Access Risk can be assigned a Risk level and can be activated / deactivated. <p>There is a pre-defined list of 454 SOD risks - each has a combination of conflicting GRC Functions assigned, or a critical action and its related permission.</p>	<p><u>SOD Risk H0164</u></p> <p>is the combination of :</p> <p>Function HR03 Modify Employee Payroll Data</p> <p>AND</p> <p>Function HR14 Enter time data</p>
Access Risk Analysis	ARA	GRC	The part of the GRC package which is used to analyze for access risks - specifically access to powerful / critical transactions and Segregation of Duties (SOD) breakdowns.	

Term	Short term	Source	Meaning	Example
Access Rule	Rule	GRC	A system-generated object with a single pair of tcodes & related permissions, based on the combination of GRC Functions which were defined as the Access Risk. Each Access Risk has one or more Access Rules generated for it.	Access Risk F028 is defined as having access to both Function AP02 (47 tcodes) AND Function GL01 (69 tcodes) together. So Access Risk F028 has over 3200 generated Access Rules.
Access Rule set	Rule set	GRC	<p>A pre-defined set of :</p> <ul style="list-style-type: none"> Access Risks and assigned Function combinations, against which a User or Role can be checked for potential SOD breakdown issues. Critical roles, critical profiles and critical actions – mostly focused on semi-technical system access. <p>A system may have several rule sets, e.g. SAP-delivered, External Audit, MIT modified, and the risk analysis reports can be run using any one rule set at a time. Also, rule sets can be compared to each other for differences.</p>	GLOBAL ZAUDIT
Authorization Profiles	Profiles	SAP	<p>In earlier SAP releases, a user's access was defined through creating and assigning manually created Authorization Profiles. The current SAP release defines user access by having job-related "Roles" from which the R/3 Security Profile Generator then generates a large Profile (for each Role). Thus, when a Role is assigned to a user, the corresponding Profile is also assigned and the system uses this to determine the user's authorized access.</p> <p>At MIT, the process of creating Authorization Profiles without an associated Role has to be continued for those parts of SAP R/3 access which are provisioned from the RolesDB system.</p>	SAP_ALL Z#:JV_FY

Term	Short term	Source	Meaning	Example
Business Analyst	BA	MIT	<p>The VPF Business Analyst (BA) is a member of the VPF Financial Systems and Data team who helps in the operational management of financial systems, processes, reporting, and data.</p> <p>Also, the BA supports the GRC/SOD review process by validating the business access requirements in the area they support.</p>	
Business End User	End User	MIT	An SAP system user for whom access needs to be provided.	
Business Process		GRC	A very high level categorization which is used to group Access Rules.	Accounts Payable, HR & Payroll
Business System Analyst	BSA	MIT	<p>IS&T Business System Analyst – IS&T’s counterpart to the VPF Business Analyst – providing more technical support, or can be both the BA and BSA support in areas where there is no designated BA.</p> <p>Also, now supports the GRC/SOD review process in terms of simulations and action/permission knowledge.</p>	
Composite Role		SAP	<p>This is type of R/3 Security Role which is a combination of other Roles and can be assigned to one or more users. A typical MIT composite Role will have several different shared Roles and one or more unique ones as well, creating a unique combination of access authorizations.</p> <p>These composite Roles more closely match one or more users' complete access requirements, making Role provisioning easier as it can mostly be done at the Composite role level, reducing the complexity for the Role Owner. Note: authorization profiles provisioned from the MIT Roles Database system are in addition to those from the composite Roles, so GRC-Access Risk Analysis always needs to be performed at the User level to get a complete analysis.</p> <p>Naming convention: Z_DDD_C_X where DDD is the MIT department, “C” indicates it is a composite role, and X is descriptive of the role (see example to the right).</p>	Z_VPF_C_ADMIN_COMMON

Term	Short term	Source	Meaning	Example
Critical Role Critical Profile Critical Action	Critical	GRC	Roles, Profiles and Transaction Codes (GRC Actions / Permissions) can be tagged as "critical" to ensure inclusion in access reviews (compliance and technical). If required, Mitigation Controls can be assigned to the critical risk.	Role = SAP_ALL Tcode/Action = FB01 with Permission 01 (Post)
Custom User Group	User Group	GRC	GRC has a "Custom User Group" for use in filtering reports. This is in addition to the SAP R/3 user's "User Group" field.	VPF
ESS	ESS	SAP	Web-based portal for Employee Self Service functionality	
Exception Access Rules		GRC	Reporting exceptions can be defined : e.g. Organization / Access risk	Not currently used at MIT.
FireFighter logs	Logs	GRC	Action logs recorded in SAP R/3 when a user checks-in to the GRC FFID.	
Firefighter Role	Role	SAP	An SAP R/3 Security Role assigned to the FireFighter R/3 Users. Different types of FireFighter need different access and Roles.	
FireFighter R/3 User	FireFighter	SAP	<p>A special SAP R/3 business user provisioned with the SAP R/3 Security FireFighter Role. There are several different types of FireFighter :</p> <ul style="list-style-type: none"> • Business User – where the FF role is limited to back-up actions, or special actions that would otherwise have created an SOD issue if combined with a user's existing role. • VPF Business Analyst - broad access for emergency VPF Financial Systems support • IS&T Business System Analyst – broad access for emergency IS&T support • IST&T Basis –additional technical access not usually needed. <p>FireFighter R/3 User naming convention: FF_XXX_NN where XXX = the business area letters and NN is a sequential number. The User Type = SERVICE and so cannot be used directly in SAP; instead it is called up from GRC-EAM.</p>	

Term	Short term	Source	Meaning	Example
Firefighter ID	FFID	GRC-EAM	<p>A GRC-EAM identifier used to manage access to the Firefighter R/3 User :</p> <ul style="list-style-type: none"> each GRC FFID is assigned to a Firefighter R/3 User (and so indirectly to the assigned R/3 access role). regular SAP users are assigned to the GRC FFID, when they have been approved as having a back-up or a support function that requires FireFighter access. <p>The Firefighter R/3 User can only be entered / checked into via the GRC-EAM system, and an R/3 user only has access to the FFIDs they have been assigned to. When finished their work, the user “checks-out” of the FFID in GRC system.</p> <p>When a FireFighter Id is used, an email is sent to its assigned FFID Controller and the FireFighter’s actions in R/3 are logged for review.</p>	
Firefighter ID Controller	FFID Controller	GRC-EAM	An MIT person (currently only in VPF or IS&T) who performs the process of monitoring FireFighter usage – both the checking-in activity and the review of action logs.	
Firefighter ID Owner		GRC-EAM	Not currently made use of by MIT – but is a required assignment for a FFID. At MIT, this will be the same as the FFID Controller.	
Function		GRC	<p>A GRC Function identifies a medium-level business process and will have one or many transaction codes (GRC Actions) assigned, with additional permission level definitions where appropriate.</p> <p>Also, a transaction code may be assigned to several functions, if it has the implied business flexibility.</p> <p>GRC has approximately 200 pre-delivered functions that are used to define the mostly SOD-related Access Risks.</p>	<p>PR02 Maintain Purchase Order - with permissions to create or change.</p> <p>HR04 Enter Employee Time Data.</p>
GRC Power User	Power User	MIT	BSAs, BAs and some Role owners will use most of the reports in GRC - so they are known as the "Power Users" in respect of the report usage and training requirements.	

Term	Short term	Source	Meaning	Example
GRC system GRC-ARA GRC-EAM	GRC	GRC	<p>SAP's "Governance, Risk and Compliance" software system – MIT is currently using the following components.</p> <p>GRC-ARA : Access Risk Analysis – this analyzes access in SAP ECC Security Profiles, Roles and Users – to see if there are (a) any "critical" features (transactions, roles, profiles) and (b) any potential Segregation of Duties breakdowns, as well as reporting details of user access and role / profile assignments.</p> <ul style="list-style-type: none"> GRC-ARA also has a what-if simulation reporting capabilities, to analyze risks for proposed role / user changes. <p>GRC-EAM: Emergency Access Management – also known as FireFighter user management. See entries under "FireFighter".</p>	
MIT Roles Database	RolesDB		MIT's custom system for managing some of the cross-system access, including some SAP access. SAP access is provisioned through an automated process, mapping RolesDB rules to SAP R/3 Security profiles, which are then assigned to the R/3 User.	
Mitigation Control	Mitigation	GRC	<p>The Mitigation Control object contains an explanation of how a specific Access Risk (SOD or Critical risk) has been mitigated. Each Mitigation Control has a unique id.</p> <ul style="list-style-type: none"> At MIT, the same access risk can exist in different areas but may be mitigated differently, so there is a separate Mitigation Control for each Risk / User Group combination, where the User group may be VPF-Property, or VPF-Accounts Payable. Where the same risk is mitigated the same was across all of MIT user community, the same Mitigation Control can be used for all users. <p>The Mitigation Control identifier is assigned to the appropriate combination of Access Risk and User to whom it applies.</p>	<p>General MIT business control: bank reconciliation performed by VPF independent of VPF AR Cashiers.</p> <p>New SOD mitigation reports (for otherwise unmitigated access): VPF AP report xxxx.</p>

Term	Short term	Source	Meaning	Example
Permission Level	Permissions	GRC	<p>In standard SAP Security, the transaction-level checks may include an additional check of an "Authorization" which is like an MIT "Qualifier" - to restrict that user to by Company Code, or types of Customers, or FI Document Types – and additionally allows access restriction by system activity, like create, change and display, where the transaction itself can allow access to all activities if not restricted by the authorization.</p> <p>In GRC these lower-level authorization are called "Permissions".</p> <p>The Access Risk Analysis reports should be executed at this level, as this will reduce the number of risks reported compared to the "Action" level reporting, where the permission distinguished between create, change and display.</p>	<p>Action / Transaction Code : FS00 Maintain GL Account Master (Allows : Create, Change, Display, Lock, Delete)</p> <p>Permission / Authorization: only given Activity = 03 (Display). No access to Activity = 01 (Create) or 02 (Change) etc.</p>
Profile Generator	PFCG	SAP	SAP ECC access management tool used to generate access roles and the Authorization Profiles based on roles.	
Provisioning			<p>The process whereby system access is provided to users.</p> <p>Specifically for SAP this encompasses the procedures for requesting, analyzing risk, approving and executing changes to roles, profiles and their assignment to users. Three systems are involved: SAP ECC, MIT RolesDB, and SAP GRC.</p>	
Risk Level		GRC	For each defined GRC Risk, an associated risk level is assigned - high, medium or low. This is used in Dashboard and other GRC report filtering.	
Risk Owner			<p>For each business area at MIT, the Risk Owner is the person who has the responsibility for ensuring the business system controls are in place and functioning, and any and all appropriate follow-up actions are taken.</p> <p>In the GRC/SOD context this includes periodic reviews of system access, SOD analysis as well as any SOD-related mitigation controls.</p>	
Risk Violations	Violations	GRC	Access risk - can be analyzed at User, Role or Profile level.	

Term	Short term	Source	Meaning	Example
Role		SAP	<p>An SAP access control object used to group together actions (transaction codes) and permissions (authorizations) to represent all or part of a business job role.</p> <p>MIT has several roles per user, e.g. those which are: common to all MIT users, common to all business area (e.g. VPF-FAR) users, common to a group within the business area (e.g. Cashier), or finally a role specific to only one job duty for only one or a few users.</p> <p>See also “Composite Role” definition.</p>	<p>Z_VPF_S_AR_MANAGER</p> <p>Z_VPF_S_DOCUMENT_REVERSE</p>
Role Owner			For each business area at MIT, the Role Owner is the person who has the responsibility for managing the SAP access roles specific for their area: requesting role changes and role / user reassignments.	
Roles Database	RolesDB	MIT	<p>An MIT custom system to manage access across many of MIT’s computer systems, including SAP.</p> <p>The SAP access focus relates to provisioning common Roles and related Profiles (with common actions and permissions) and additional “qualifier” profiles – the latter relates to controlling access at organizational levels or other SAP system attributes.</p> <p>The “qualifier” provisioning is managed by the MIT business users who have provisioning rights.</p> <p>Currently, some RolesDB common Roles are blocked for the SAP users who have already had their Roles in SAP re-engineered as part of the SOD project.</p>	
SAP Access Control SAP Authorization	SAP R/3 Security	SAP	SAP’s core system access control functionality using: Users, Roles, Profiles and Authorizations.	
SAP ECC SAP Core SAP 6.0			The SAP software used by MIT for Financial Accounting, Procurement and HR/Payroll. “ECC” stands for Enterprise Core Component, and 6.0 is the software release level.	

Term	Short term	Source	Meaning	Example
SAP User Group	User Group	SAP	Each SAP R/3 user is defined in the SAP system. One of the SAP User's attributes is the "User Group" field which MIT is using to identify a group of users for analysis. Some GRC-ARA reports make use of this "User Group" for selection. Additionally, GRC has a "Custom User Group".	VPF-FAR
Segregation of Duties	SOD	GRC	System access is expected to support the business requirement that no single user should have end-to-end business process access, otherwise there is risk of internal fraud occurring. In some high risk areas, access to only several steps in a process are enough to cause a Segregation of Duties breakdown.	Ability to create a Vendor Master and any one of: create a Purchase order, post an invoice, generate a payment.
Simulation	Simulation	GRC	The GRC-ARA simulation tool is a "what if" access risk analysis - it simulates adding more access (actions and permissions) to existing Users, Roles or Profiles. The simulation can also specify access to be removed – e.g. what if transaction FCH9 Void Check were removed from a user who currently has it.	What if tcode ME21N (Create a Purchase Order) is added to User FREDX, or to Role Z_VPF_S_AR_MANAGER.
SOD Coordinator		MIT	A person in VPF who has been designated to coordinate several of the GRC-related processes.	
SUIM	SUIM	SAP	An SAP R/3 transaction which calls up a menu of authorization-related reports of Users, Roles, Profiles, Authorizations. Note: each item on the menu requires access to be granted, as it links to a different SAP transaction code – like S_BCE_68001421 – which in turn call up the related RSUSRxxx program.	
Transaction code	tcode	SAP	The SAP ECC system users "transaction code" for each business action - usually all menu lines have a transaction code behind them to call up the dialog (online) function. In GRC, these are called Actions.	FB01 Post an FI Document FB02 Change an FI Document FB03 Display an FI Document

Term	Short term	Source	Meaning	Example
User Master	User	SAP	This is the SAP system user master record or Logon Id – the naming convention at MIT is to match the MIT Kerberos Id, based on the user's name.	PAMELAS DALET VACHA
Workflow – ECC			In SAP ECC, “workflow” is automated for some financial postings/documents. Users enter financial transactions and they are “work flowed” in custom MIT programming to approvers’ inboxes.	
Workflow – GRC			GRC functionality for approving access change requests - currently not implemented.	

GRC Roles & Responsibilities

ROLE	RESPONSIBILITY	ACCESS-RELATED ACTIONS	FORM/REPORT USE
RISK OWNER Gerry O'Toole Basil Stewart Tricia Sullivan Mullen James Walsh Allen Marcum Bart Dahlstrom	<ul style="list-style-type: none"> Provide guidance on - Simon <ul style="list-style-type: none"> acceptable level of risk related to SODs and critical access adequacy of compensating (mitigating) controls Ensure control processes are in place : - Karon <ul style="list-style-type: none"> Regular access review Mitigation processes, including specific reports. Final approval on new/amended Mitigation Control definitions and assignment to Risk / User combinations. - Simon Approve recertification of mitigating controls – supported by Role Owner and Compliance Officer. - New 	<ul style="list-style-type: none"> Review high-level GRC-ARA reporting Monitor the execution of the access-related business control processes 	High level GRC Dashboard reports Final sign-off on Mitigation Control change request form.

ROLE	RESPONSIBILITY	ACCESS-RELATED ACTIONS	FORM/REPORT USE
ROLE OWNER John Larkin Donna Cairns Eileen DesRosiers James Walsh Chris Durham Sara Malconian Long Tran Kathy McGrath Kevin Miligan Pamela Schickling Jo Anne Chute Tricia Sullivan Mullen Ann Harvey Danielle Khoury Jo Lynn Whitlock Siobhan Cunningham Frank Quern Ron Parker Wai Ming Li	<ul style="list-style-type: none"> Identify potential access changes, aligned to the business area's functions, organization and Segregation of Duties requirements. - George <ul style="list-style-type: none"> New or amended role definition. User assignments to new or amended roles Assist the SOD Coordinator with the assessment of new risks associated with proposed changes - Simon Formally request Production access changes (role activation and user/role assignment) when the GRC risk analysis is completed and documented. - New Manage changes to SAP access from the RolesDB, where appropriate. Note: there is usually no SAP Security Admin involvement in this step. - George Request assignment of users to Firefighter roles in GRC – Siobhan, Sandy Advise SAP Security of any Transfer Out / Termination - New Conduct regular reviews of : - New <ul style="list-style-type: none"> Roles for the business area – who has them Users per business area – what roles they have Users per business area – what Risk/ Mitigation combinations are assigned GRC-ARA (SOD) analysis Assignment of Business Back-up FireFighter roles to Users Monitor access logs for business user "FireFighter" and IS&T Support role usage - New 	<ul style="list-style-type: none"> Initiate change requests – SAP access Initiate change requests – GRC mitigations Keep Risk Owner aware of all proposed changes and status Review SOD Risk simulation results provided by BA/BSA for proposed role changes Perform Role and User level access analysis – with support from BA and/or BSA. 	<p>FORM : Access Change Request</p> <p>FORM : Mitigation Control request form – Risk/User assignment</p> <p>Various GRC reports – may be a GRC “Super User” SAP ECC SUIM reports - limited use.</p>

ROLE	RESPONSIBILITY	ACCESS-RELATED ACTIONS	FORM/REPORT USE
BUSINESS ANALYST (BA) Mirella Villa Leslie Wright Scott Ball Lody Petriv	<ul style="list-style-type: none"> Assist the Role Owner and Risk Owner with : - Simon <ul style="list-style-type: none"> Analysis of changes to risks due to changes in roles or user/role assignments Redesign of Role in terms of business-relevant information Understanding the Risk as reported by GRC-ARA – i.e. why there is a potential SOD issue. Document Mitigation Control and send to GRC team, after approval of Role Owner and Risk Owner - Simon Testing new/changed access – BA/BSA 	<ul style="list-style-type: none"> Perform GRC-ARA simulations or review simulation results Perform Role and User level access analysis in GRC Create/update SAP Access Role design documents. 	FORM : Mitigation Control request– initial definition and creation GRC Power User reporting SAP ECC SUIM reports
BUSINESS SYSTEM ANALYST (BSA) Ken Levie Kristen Hann Bob Casey Keyur Patel Sandeep Nadendla And others	Essentially the same as the Business Analyst, plus providing assistance with : <ul style="list-style-type: none"> Alternatives for Actions (tcodes) or Permissions (Authorizations) - BSA Categorizing “Z” transactions - BSA Prepare mini-specs for any additional mitigation system development (configuration, enhancements or reports) - BSA Manage transports for any development technical objects. - BSA 	Same as Business Analyst, plus : <ul style="list-style-type: none"> More use of SUIM??? Access to use SU56 on Production users and run “Z” auth reports 	GRC “Super User” SAP ECC SUIM reports
SAP END USER All VPF users	<ul style="list-style-type: none"> Test new/amended access - same Report missing authorization- same Report access in excess of job requirements- same Report breakdown of mitigating controls – e.g. user finds they can approve own Requisitions above the limit, or can approve own JVs. - same 	Email to Role Owner any issues.	N/Av

ROLE	RESPONSIBILITY	ACCESS-RELATED ACTIONS	FORM/REPORT USE
SOD COORDINATOR Lody Petriv On Demand Epiuse AMS Remote Consulting (Simon & Suman) for 6-12 months under current contract hours	<ul style="list-style-type: none"> Coordinate monthly SOD Analysis reviews - Karon Coordinate Quarterly User Access reviews - Karon Business lead for GRC, including : <ul style="list-style-type: none"> VPF Roles : for new/amended roles, coordinate SOD Issue resolution – involving Risk Owner, Role Owner, Audit, as well as support from BA / BSA <ul style="list-style-type: none"> Also, identify any additional mitigation controls required if new risks are to be accepted. Ensure mitigation controls are in place before user / role access change is effective. - Simon Support the Risk Owner and Role Owner by providing information from GRC system – Suman, JD Support the process for recertification of mitigating controls. - New 	<ul style="list-style-type: none"> Run GRC and SUIM reports 	GRC Power User reporting
BSA Manager = IS&T Role Owner Siobhan Cunningham Frank Quern	<ul style="list-style-type: none"> Advise SAP Security Admin, GRC Team and Director of Financial Systems and Data- when there are new or amended IS&T Support users - Siobhan, Frank 	<ul style="list-style-type: none"> Request user assignments to Support roles 	FORM : Access change request
GRC ADMIN Sara Quigley Ron Parker George Petrowsky Rich Katkowski Quian Kang	<ul style="list-style-type: none"> Manage rulesets, including adding “Z” transactions - Sarah Manage Mitigation Controls and their related Risk/User assignments - Sarah Manage access to GRC functionality and reports- Sarah Manage GRC updates - Sara Manage “Fire Fighter” to User assignments. - Sarah Provide information on reporting, report results and GRC ruleset contents as requested. - Sarah 	No access-related actions as such, but provide : <ul style="list-style-type: none"> Confirmation to Role Owner that a Mitigation Control is assigned to the users as requested. Risk and Function definition information on request Explain results from any GRC Dashboard or detailed report. 	Potentially any report from GCR

ROLE	RESPONSIBILITY	ACCESS-RELATED ACTIONS	FORM/REPORT USE
SAP SECURITY ADMIN TEAM Ron Parker George Petrowsky Rich Katkowski Quian Kang Sara Quigley	<ul style="list-style-type: none"> Execute properly approved SAP User Access change requests : Admin Team <ul style="list-style-type: none"> Amend Roles Amend User / Role assignment Amend Profiles Amend RolesDB / SAP interface Amend Firefighter Roles Provide User Aliases for testing new/amended roles Admin Team Redesign Roles for efficiency or to separate functions which were bundled. May be in conjunction with RoleDB changes. Admin Team 	<ul style="list-style-type: none"> Confirm SAP access changes to Role Owner Move access through Development, QA and Production landscape Advise Role Owners when any “technical” role redesign / clean-up is performed – as user access testing will be required. 	Any report from SAP Reporting from GRC?
MIT Audit	<ul style="list-style-type: none"> Periodic reviews of - MIT Audit <ul style="list-style-type: none"> SOD risk mitigation controls SAP access change process controls User access 		Power User of GRC reports
Ongoing Oversight Committee – Chair Gerry O’Toole Basil Stewart Tricia Sullivan Mullen Bart Dahlstrom James Walsh Allen Marcum	<ul style="list-style-type: none"> SOD / GRC Champion Speaks to overall approach with PWC Audit 		

GRC SOD Analysis Steps

PURPOSE OF THIS DOCUMENT

This document sets out the steps required to understand the Segregation of Duties risks and their actual impact within the specific business environment. The details here support the high-level GRC Process 2 Flowchart presented during GRC training.

The details below describe the users (BA, BSA, Risk Owner, Role Owner, SOD Coordinator, SAP Security Admin) who will be involved in each step. The steps are broken down into phases of the task :

- Phase A Steps 1 – 7 Risk understanding
- Phase B Step 8 Role redesign and SOD analysis
- Phase C Steps 9 – 11 Mitigation Strategy

DETAILED STEPS – USERS INVOLVED AND ACTIONS

INFORMATION INPUT	ROLE DESIGN / REDESIGN STEPS
PHASE A	PREPARATION (1 – 7)
Audit Business Analyst Business Systems Analyst	1. Understand the business operations : <ol style="list-style-type: none"> a. Business activities, scope, value, volume, risk. b. Business systems , including manual steps outside the computerized systems and any automated processes c. Any Key Performance Indicators affecting employee remuneration. d. Business events which involve employees with access to MIT resources and business processes which could be subject to misappropriation / fraudulent activities: <ul style="list-style-type: none"> • Cash and Treasury • Stores inventory • Equipment and Fixed Assets • Req-to-check/payment : inwards goods/services consumption • Order-to-cash : outwards goods/services • Service provided internally • HCM : HR and time data affecting Payroll e. Where relevant, any external legal / regulatory requirements for fiscal reporting, trade restrictions, privacy / data protection, disclosures etc.

INFORMATION INPUT	ROLE DESIGN / REDESIGN STEPS
<p>Audit</p> <p>Risk Owner</p> <p>GRC system</p>	<p>2. Business Risks and related Control Objectives</p> <ul style="list-style-type: none"> a. High level control objectives for completeness, accuracy, authorization, timeliness, quality, privacy etc b. Identification of major risk areas relevant to the MIT business area, including the GRC Ruleset – with its “Risk” definitions. c. Determine if there are any Audit findings (internal & external) which are still unaddressed.
<p>Business Management</p> <p>HR</p> <p>IS&T</p>	<p>3. Organizational Structures relevant to the processes</p> <ul style="list-style-type: none"> a. Business Organization Chart b. System Org hierarchies and system approval structures and limits c. Current job incumbents and vacancies and temporary staffing d. Reality Check : the actual supervision / management in place
<p>Business Management</p> <p>HR</p>	<p>4. Job Descriptions relevant to the business processes</p> <ul style="list-style-type: none"> a. Identify the business process steps the user is currently responsible for. b. Identify any requirements for confidentiality (personal data, financial data, contract bidding, etc) relating to the user / job position. c. Reality Check : shared UserIds d. Reality Check : multiple UserIds (not at MIT due to unique Kerberos Id).
<p>Business Management</p> <p>Audit</p>	<p>5. Published Policies and Procedures</p> <ul style="list-style-type: none"> a. Identify procedures requiring control and what the control procedure is. b. For each procedure, summarize into bullet points in process step sequence, with system / person / action c. Reality Check : make sure the procedure is still in use.
	<p>6. Actual users and system usage</p>
<p>IS&T - Security</p> <p>Business Analyst</p> <p>Business Systems Analyst</p> <p>(Role Owner to an extent)</p>	<ul style="list-style-type: none"> a. List of current users, by User Group (matching the MIT business area) b. List of transaction codes executed by SAP UserId over a 1 or 2 year period. (Job changes will make this less useful). <p>Review the list of business process identified for the users and</p> <ul style="list-style-type: none"> • assign any major action tcodes for data maintenance, logistics/financials postings / approvals, and • identify remaining tcodes not associated with a business process. <ul style="list-style-type: none"> c. Identification of any Emergency Access the user has - managed in GRC or

INFORMATION INPUT	ROLE DESIGN / REDESIGN STEPS
	<p>in any other way.</p> <p>d. List of roles / composite roles assigned to the users</p> <p>e. Additional Authorizations used to restrict access by organizational, functional, or business classification.</p> <ul style="list-style-type: none"> • This may include authorizations provisioned through the MIT custom Rules Database • Once a role is created, the Profile Generator requires values for the Authorization Objects used by the tcodes in the role. <p>f. Additionally, IS&T can list the Authorization Objects called for a transaction code.</p>
	7. Business Controls and Risk Mitigation
<p>Audit Business Analyst</p>	<p>a. Dual actions required by procedures or in use – e.g. entry & independent approval of entered data (master data and financially-relevant transactions).</p> <p>b. Any organizational “segregation of duties” – e.g. Master Data users are a separate group of users from the Financial Transaction Entry users.</p> <p>c. The usual business procedures for reconciling business activity – e.g. cash receipts, check stationery, warehouse physical inventory, fixed assets inventory.</p> <p>d. Detective, like independent review of reports - and who performs the review. Often there are “exception” reports which focus on specific risks for the users.</p> <p>e. Configured or programmed system restrictions.</p>
<p>Audit IS&T</p>	<p>f. Activity logs and reviews, and the data being reviewed is protected from change / deletion. Typically reports of master data changes, financial transactions, overdue open items, unblocked invoices).</p>
<p>Audit Business Analyst Business System Analyst</p>	<p>g. Additional access restrictions - e.g. users activity is limited to specific GL Accounts, Vendors / Customers, FI Document Types or dollar amounts – which may reduce the risk.</p>
PHASE B	ROLE REDESIGN– <u>Role Build and SOD Analysis (8)</u>
	8. Analysis of actual Segregation Of Duties
<p>All of the above GRC Risks definition</p>	<p>a. Understand the expected / best practices SOD requirements for the SAP UserIds, based on the actual business area being reviewed and the actual business systems in place .</p> <p>b. Use Standard SOD rulesets for identifying Risks and Function-level</p>

INFORMATION INPUT	ROLE DESIGN / REDESIGN STEPS
	<p>definitions – the function level clash is usually like Vendor Master + Invoice Entry.</p> <p>c. Understand the “High Risk” or Critical activities in GRC.</p>
<p>IS&T</p> <p>Business Management</p>	<p>d. Redesign of SAP Roles and UserIds</p> <ul style="list-style-type: none"> • Remove all unused SAP transaction codes and other SAP Authorizations from the roles • Match additional Authorizations to any restriction requirements (organizational and accounting restrictions) • Identify and set up any new users (if there is additional staffing to help with maintaining SOD). • Assignment of all expected roles to a user - check tcodes match actual job duties, no more and no less <ul style="list-style-type: none"> • This is mostly managed at MIT with Composite Roles – so several single roles are assigned to a Composite role. • In smaller operational areas there may be one Composite Role per user, reflecting a unique mix of job duties per user.
<p>Business Analyst</p> <p>Business Systems Analyst</p>	<p>e. Review of redesigned SAP <u>Roles</u> (preliminary review per Role, and then per User with all roles and Roles Database profiles assigned) for any SOD Issues</p> <ul style="list-style-type: none"> • SOD breakdowns reviewed – identify real risk / processing scenario for the SOD in the specific environment. • Uses Standard SOD rulesets for identifying activity-level (tcode) and permission-level SOD breakdown.
<p>Business Management</p> <p>IS&T Security</p>	<p>f. Consider remediation possibilities - looking at either side of the function clash for the SOD risk :</p> <ul style="list-style-type: none"> • Adjusting several roles / job duties to avoid an SOD • Move one or more of the tcodes to a “FireFighter” role • Have another business area manage a function • Use alternative tcodes which do not have the same risk.
<p>Audit</p> <p>Business Management</p>	<p>g. Review of total physical business environment, including business processes across systems where SAP is not the only system in the business process.</p> <ul style="list-style-type: none"> • There may be an SOD where the user performs two actions, one in each system, which would be reported as an SOD if both actions were managed in SAP.

INFORMATION INPUT	ROLE DESIGN / REDESIGN STEPS
PHASE C	MITIGATION STRATEGY (9 – 11)
<p>Audit</p> <p>Business Analyst</p> <p>Business Systems Analyst</p>	<p>9. Understand the exact scenario possible for the reported Risk</p> <ol style="list-style-type: none"> Look at the exact tcode combinations reported for the Risk. Each Risk has two conflicting functions – and each function can have several tcodes. <ul style="list-style-type: none"> Where there are a large number of combinations, they can usually be grouped to simplify the analysis. Look at the tcode combination in conjunction with the GRC Risk description, it sometimes helps to focus on a specific issue. Check if the GRC system already has a Mitigation Control defined for this Risk. If there is one, make sure the same tcode combinations were involved. If there is a major difference in the conflicting tcodes, the Mitigation Control may not be valid for the new users under analysis. Determine if any of the combinations are not a significant risk for MIT. For the combinations remaining, outline the process steps needed for the user, with no collusion, to benefit from the potential SOD. In some cases a multi-step scenario is needed, and a mitigating control at any one step may be adequate. Double check with Audit if the issue has been reported and/or already addressed or risk is formally accepted by management to be within acceptable levels.
<p>Information gathered above</p> <p>Audit</p> <p>Business Analyst</p> <p>Business Systems Analyst</p>	<p>10. Review of SOD issues and any effective “mitigating” control processes already in place. This may include</p> <ol style="list-style-type: none"> workflowed approvals, independent “release” or “activation” processes, or dual control master data workflowed / emailed notifications of activity regular business post-facto report review, including “reconciliations” , activity reporting and exception reporting other SAP Authorizations (GL/Customer/Vendor accounts, document types, Fixed Assets, organizational, table access) transactional value limits configured restrictions (document types, field restrictions) programmed restrictions, including validations or upload program checks.
	<p>11. Recommendations for addressing remaining SOD issues :</p>
<p>Audit</p>	<ol style="list-style-type: none"> Improved SOD within SAP user business roles – potential for business

INFORMATION INPUT	ROLE DESIGN / REDESIGN STEPS
Business Management	user role changes – but not always possible.
Audit Business Analyst	b. Improved procedural controls – e.g. detective report reviews
Business Analyst Business Systems Analyst IS&T Development	c. Additional lower-level preventative / limiting controls such as : <ul style="list-style-type: none"> • Authorizations – e.g. restricted access based on account assignments (GL Accounts, Vendors, Customers, Plants, FI Document Types etc) • Configuration / Enhancements – like <ul style="list-style-type: none"> • Data Entry validations • FI Document Type settings • SAP dual control activations • Workflows
Business Analyst Business Systems Analyst IS&T Development	d. Custom processes / enhancements with inbuilt restrictions preventing or limiting the SOD issue : <ul style="list-style-type: none"> • Screen variants for restricting and/or forcing data and options • Functionality limitations • Specific data tables or data • Special checks – like prevent entering invoices for Vendors created by the same user.
Risk Owner	e. Ensure controls are in place – has to be evidenced and testable.

Example of a Sales related SOD risk matrix, showing conflicting functions. Risk rating (High, Medium, Low) is for illustration purposes only.

[illegible]

GRC Forms

Example Form A: GRC Mitigation Control Change Request

GRC MITIGATION CONTROL CHANGE REQUEST

Please use this form to request changes to the SAP GRC Mitigation Controls – for new / amended descriptions, and for new / amended assignments to Risk/User combinations.

ACTION REQUIRED - check with "Y" all applicable				
<input type="checkbox"/>	New Mitigation Control ?	<input type="checkbox"/>	Amend the MC description ?	GRC ADMIN STATUS
<input type="checkbox"/>	New Risk/User assignments ?	<input type="checkbox"/>	Amend Risk/User assignments ?	
<input type="checkbox"/>	Document to be attached ? ➤ .			DEV DD/MM/YY
<input type="checkbox"/>	Hyperlinks to be attached ? ➤ .			TEST DD/MM/YY
Date Required in Production MM / DD / YY Coordinated with other SAP R/3 Production transports Y/N ?				PROD DD/MM/YY

MITIGATING CONTROL : GENERAL INFORMATION	
GRC MC ID	Use format MC-XXX-12 where XXX is VPF Business Area ➤
GRC MC CONTROLLER	➤ MC Controller Name : _____ ➤ SAP User Id : _____
SHORT DESCRIPTION	Short description (max. 25 characters) ➤
LONG DESCRIPTION	Long description in attached document ? If not, enter below : ➤

GRC MITIGATION CONTROL CHANGE REQUEST

RISK / USER ASSIGNMENT – to be added or removed ?				
ADD	REMOVE	GRC RISK ID	SAP USER ID	User Name

ROLE OWNER - PROPOSER			
Name	Telephone #	Kerberos Id	Date
RISK OWNER – APPROVER			
Name	Telephone #	Kerberos Id	Date

Example Form B: GRC FireFighter Change Request

GRC FIREFIGHTER CHANGE REQUEST

Please use this form to request changes to the SAP GRC FireFighter assignments for existing or new FFIDs

ACTION REQUIRED - check with "Y" all applicable						
<input type="checkbox"/>	Amend assignment - FFID User	<input type="checkbox"/>	Amend assignment - FF ID Controller	<input type="checkbox"/>	Amend assignment - FF ID Owner	GRC ADMIN STATUS
<input type="checkbox"/>	New FF ID and R/3 User and Role ?	<input type="checkbox"/>	Add / Remove GRC EAM report user ?			
<input type="checkbox"/> Coordinate with other SAP R/3 Production transports ? Date Required in Production > MM/DD/YY						PROD DD/MM/YY

FIREFIGHTER CHANGES : GENERAL INFORMATION	
RT TICKET ID	➤
RT TICKET TITLE	➤
RT TICKET – ISSUE TYPE	➤ GRC FIREFIGHTER CHANGES
REQUESTER	➤ Name :
BUSINESS PROCESS OWNER / BA	➤ Name :
IS&T BSA	➤ Name :
REQUIREMENT / JUSTIFICATION	➤
RELATED R/3 TRANSPORTS	➤

GRC FIREFIGHTER CHANGE REQUEST

GRC FFID ASSIGNMENTS – to be added or removed

NEW FFID	Existing FFID	GRC FF ID	SAP USER KERBEROS ID	FFID USER	FFID CONTROLLER	FFID OWNER
<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove
<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove
<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove
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<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove
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<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove
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<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove
<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove
<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove	<input type="checkbox"/> Add <input type="checkbox"/> Remove

FIREFIGHTER ROLE OWNER - APPROVER

Name	Telephone #	Kerberos Id	Date

Example Form C: SAP User or Role Change Checklist

SAP PS1 SECURITY CHANGE CHECKLIST

Please use this form to request or document changes to the SAP R/3 Security in Production (PS1) –for changes to Roles and for Role assignment to Users (pages 1 -3), FireFighter Users and roles (page 3) and for User administrative data changes including lock/unlock and reset password (page 4).

For new Composite Roles or new FireFighter Users, please use one Change Request form per role or user.

ACTION REQUIRED - check with "X" all applicable						
<input type="checkbox"/>	LOCK / UNLOCK USER (Page 4)	<input type="checkbox"/>	RESET PASSWORD (Page 4)			ADMIN STATUS
<input type="checkbox"/>	COMPOSITE ROLE NEW	<input type="checkbox"/>	SINGLE ROLE NEW	<input type="checkbox"/>	NEW USER – role assignment	
<input type="checkbox"/>	COMPOSITE ROLE CHANGE	<input type="checkbox"/>	SINGLE ROLE CHANGE	<input type="checkbox"/>	EXISTING USER – role change	PROD UPDATED DD/MM/YY
<input type="checkbox"/> Coordinate with other SAP R/3 Production transports ?						
<input type="checkbox"/> Coordinate with Roles Database changes ?						
<input type="checkbox"/> Coordinate with GRC FireFighter changes ?						
Date Required in Production > MM/DD/YY						

R/3 ROLE AND ROLE ASSIGNMENT CHANGES : GENERAL INFORMATION	
RT TICKET ID	➤
RT TICKET TITLE	➤
RT TICKET – ISSUE TYPE	➤ R/3 SECURITY ADMIN
REQUESTER / ROLE OWNER	➤ Name :
BUSINESS PROCESS OWNER / BA	➤ Name :
IS&T BSA	➤ Name :
REQUIREMENT / JUSTIFICATION	➤
RELATED R/3 TRANSPORTS	➤

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SAP PS1 SECURITY CHANGE CHECKLIST

SINGLE ROLE CHANGES (USER AND FIREFIGHTER)	
SINGLE ROLE (s) -	<i>The role(s) to be changed.</i> ➤ . ➤ .
ROLE DESIGN DOCUMENT (required for new roles)	<i>File name and location of Role Design document</i> ➤
LIST OF CHANGES TO EXISTING ROLE	<i>Description of Transaction Codes (added or removed) and/or Authorizations (to be added, removed or amended)</i> ➤
GRC Risk Analysis – Role ?	➤ <i>Simulation Provided / Needs to be run ?</i>
GRC Risk Analysis – Users ?	➤ <i>Simulation Provided / Needs to be run ?</i>

NEW FIREFIGHTER USER	
USER	➤ <i>FF-XXX-NN</i>
ROLE DESIGN DOCUMENT	<i>File name and location of Role Design document (optional)</i> ➤
FFID SET UP COMPLETED IN GRC ?	➤ <i>Date / Time :</i>

ROLE OWNER - APPROVER (USER ROLES AND FIREFIGHTER ROLES)			
Name	Telephone #	Kerberos Id	Date
GRC Verification – SOD Coordinator (USER ROLES ONLY)			
Name	Telephone #	Kerberos Id	Date

SAP PS1 SECURITY CHANGE CHECKLIST

USER STATUS : CHANGES	
USER ID	➤
PASSWORD RESET	➤ <i>Date / Time :</i>
LOCK USER	➤ <i>Date / Time :</i> ➤ <i>Reason :</i>
UNLOCK USER	➤ <i>Date / Time :</i> ➤ <i>Reason :</i>

USER IDENTIFICATION DATA : CHANGES	
USER ID	➤
USER GROUP	➤
GRC CUSTOM USER GROUP	➤
NAME	➤
WORKCENTER	➤ <i>Department :</i> ➤ <i>Building :</i> ➤ <i>Room :</i>
LOCATION	➤
COMMUNICATION DETAILS	➤ <i>Phone :</i> ➤ <i>Fax :</i> ➤ <i>Email :</i> ➤ <i>.</i>
ACCOUNT NUMBER	➤

USER MANAGER - APPROVER			
Name	Telephone #	Kerberos Id	Date

GRC Change Events

MIT BUSINESS EVENTS TRIGGERING SAP/RDB AUTH CHANGES AND THE IMPACT ON GRC

Event triggering change	Type of change	SAP UserId and Auth changes	MIT Roles Database (RDB) changes	GRC changes, SOD Risk Analysis impact, FireFighter	Mitigation Signoff	Process Flowchart
The business event which triggers a change in Users, User Access, Role Design, Mitigation Requirements, GCR assignments (Mitigations and FireFighters).	The type of change that is triggered, in business terms.	Exactly what SAP R/3 objects needs to be amended and the type of amendment – add, remove, reassign, create, change etc.	Any changes that are expected in the MIT Roles Database system. This is mostly managed by the user’s management – but may sometimes also have a technical change component.	The actions and changes which will be needed in the GRC system – for Mitigation analysis, Mitigation Control assignment and for FireFighter management.. In some cases Validity Period can be used instead of de-assignment.		1. Roles Maintenance 2. Mitigation 3. Role Provisioning to Users 4. FireFighter 5. Compliance reviews
Departmental reorganization	Job duty changes – may be substantial changes	<ul style="list-style-type: none"> Role / composite role changes User role combinations changed Probably an existing User Group, but may be a new one. 	<ul style="list-style-type: none"> Probably a few RDB changes If user role redesigned for the first time under new process, update the RDB user list so that some of the old common profiles are not exported back into SAP. 	<ul style="list-style-type: none"> Role analysis User Analysis Mitigation reassignments / deassignments with validity dates Possibly need New / Changed Mitigation Control Possibly need reassignment of FireFighter IDs 	Potentially changed	1. Roles Maintenance 2. Mitigation 3. Role Provisioning 4. FireFighter
Existing job position <ul style="list-style-type: none"> New hire Employee Transfer in (new manager’s actions) 	Replacement or additional staff – no other changes	<ul style="list-style-type: none"> User added to SAP with same roles as an existing user For Transfer In, amend User Group. 	<ul style="list-style-type: none"> User added to RDB or amended in to have the same attributes as existing users 	<ul style="list-style-type: none"> Add UserId to mitigation assignment 	No change – but include user Id in selection for Mitigation reports.	1. Roles Maintenance 3. Role Provisioning
New or changed job duties <ul style="list-style-type: none"> New hire Existing employee 	New job, new duties	<ul style="list-style-type: none"> New role / composite role New role combination for the user Probably an existing User Group, but may be a new one. 	<ul style="list-style-type: none"> User added to RDB with appropriate attributes. 	<ul style="list-style-type: none"> Role analysis User Analysis Mitigation reassignments / deassignments and Validity Date changes 	Potentially changed	1. Roles Maintenance 2. Mitigation 3. Role Provisioning 4. FireFighter
Temporary staffing	Several types : <ul style="list-style-type: none"> Existing job Combination of jobs Special project/access 	<ul style="list-style-type: none"> User added to SAP with same roles for sub-set of roles as an existing user User added to SAP with new combination or roles 	<ul style="list-style-type: none"> Some additional provisioning may be needed 	<ul style="list-style-type: none"> Simulations of any new role combinations Mitigation reassignments / deassignments after periodic GRC reporting – using Validity Dates. May need FireFighter access 		1. Roles Maintenance 2. Mitigation 3. Role Provisioning 4. FireFighter
Employee Transfer Out (prior manager’s actions)	Employee remains at MIT, but moves to a different DLC	<ul style="list-style-type: none"> User’s job-related access to be removed Variation : user performs old duties and new duties for a while ! 	<ul style="list-style-type: none"> User’s old permissions removed by prior manager – at some point. User’s new permissions added by new manager before job assignment commences 	<ul style="list-style-type: none"> Amend “Valid To” date for mitigation assignment. User Analysis – where user is to retain old access overlapping with new access. FireFighter de-assignments 	Potentially changed	2. Mitigation 3. Role Provisioning 4. FireFighter
Employee resigns, is terminated or has taken long-term/permanent leave.	Employee no longer needs access to SAP. Note : procedure is different for terminations.	<ul style="list-style-type: none"> Roles can be removed from User ESS access remains ?? User is deactivated (but not removed) IS&T employee - deactivated in all SAP systems 	<ul style="list-style-type: none"> User’s permissions removed , by ???? 	<ul style="list-style-type: none"> Mitigation/User assignment remains for historical reporting. Amend “Valid To” date. FireFighter de-assignments 	User Id remains in selection variant for historical reporting.	2. Mitigation 3. Role Provisioning 4. FireFighter
Non-employee leaves MIT	Student, associate, consultant no longer needs access	<ul style="list-style-type: none"> User is deactivated (but not removed) Consultants – deactivated in all SAP systems 	?	<ul style="list-style-type: none"> No changes – and Mitigation/User assignment remains for historical reporting. 	User Id remains in selection variant for historical reporting.	3. Role Provisioning
New SAP application functionality added	Standard SAP or “Z” tcodes to be added	<ul style="list-style-type: none"> Standard SAP tcodes – add to roles – Business Users and related FireFighters (for business, BA and BSA) May require separate single role, to be included in composite roles. 	<ul style="list-style-type: none"> May be no change. If RDB already controls similar auth/qualifier, then maybe new object is added to RDB. 	<ul style="list-style-type: none"> Custom “Z” tcodes – identify SAP equivalent and add to Ruleset (Functions) wherever SAP equivalent is. Role analysis User Analysis 	Potentially changed	1. Roles Maintenance 2. Mitigation

MIT BUSINESS EVENTS TRIGGERING SAP/RDB AUTH CHANGES AND THE IMPACT ON GRC

Event triggering change	Type of change	SAP UserId and Auth changes	MIT Roles Database (RDB) changes	GRC changes, SOD Risk Analysis impact, FireFighter	Mitigation Signoff	Process Flowchart
Functionality removed	No replacement, just removal. <i>Change of tcode usage - e.g.</i> <ul style="list-style-type: none"> FV50 replaces F-65 FBCJ replaces ZCxx 	<ul style="list-style-type: none"> Typically tcodes are removed from a role. <i>Rare – a role could be deactivated</i> <i>See “New Functionality Added” for action on any replacement tcodes. Cannot assume replacements have the same SODs as those replaced.</i> 	<ul style="list-style-type: none"> May be no change. If RDB controls a related auth/qualifier, then it can be removed from / disabled in RDB. 	<ul style="list-style-type: none"> Determine if a Risk was removed, and so the user can be deassigned from a mitigation control. Role analysis User Analysis may be needed 	Potentially changed	1. Roles Maintenance 2. Mitigation
Missing authorization	New SAP Authorizations, role maintenance errors, Roles DB errors	<ul style="list-style-type: none"> Affected role is updated – all role users are fixed 	<ul style="list-style-type: none"> If missing authorization is provided from RDB, missing due to technical or provisioning error, fix in RDB. 	<ul style="list-style-type: none"> Unlikely to be affected , unless new authorization is already added to GRC and causes an SOD User analysis – just to be sure 	Potentially changed	1. Roles Maintenance
Firefighter assignment changes	Request for User → Firefighter assignment	N/A	N/A	<ul style="list-style-type: none"> Assign SAP R/3 User to Firefighter ? 	Should not be affected	4. FireFighter
SAP Auth Role redesign	Technical – behind the scenes – should not affect the business	<ul style="list-style-type: none"> Role / composite role changes 	<ul style="list-style-type: none"> Some may be removed, if SAP Auth roles becomes the controller 	<ul style="list-style-type: none"> Role analysis User Analysis Unlikely to be removing risks, but it is possible where unnecessary access was removed – so potentially may be able to deassign mitigations. 	Should not be affected	1. Roles Maintenance
Business or Audit controls review	<ul style="list-style-type: none"> Additional mitigation controls to be added and assigned. “Remove access” request from Audit 	<ul style="list-style-type: none"> May have new reports – may need new tcode and role to be assigned to users to run mitigation reports Role removed from user(s) Possible role redesign 	Possible change.	<ul style="list-style-type: none"> New Mitigation Control created Change assignment of Risk / Mitigation / User. 	New control added to Signoff documentation.	2. Mitigation 3. Role Provisioning
Mitigation Control – periodic expiry of User assignment and subsequent recertification	Expiry dates for Mitigation Control / User Assignment need to be extended	N/A	N/A	<ul style="list-style-type: none"> May identify some assignments that can be removed Extend all valid assignments = “recertify” 	Unchanged	2. Mitigation
Ruleset changes – MIT or PWC	Different ratings (H/M/L) on risks, added/removed critical transactions, tcodes removed from Function, etc	N/A	N/A	<ul style="list-style-type: none"> Role analysis User Analysis 	Should not be affected	N/A - GRC MAINTENANCE
SAP annual system and content changes	Additional Tcodes, Functions and Rules added to ruleset	N/A	N/A	Additional Tcodes, Functions and Rules added to SAP delivered ruleset. Note : if any new functionality is actually used, the new tcodes would have been added to user roles – see “New Functionality Added” above.	Should not be affected	N/A - GRC MAINTENANCE
User locked, name changes, etc	<ul style="list-style-type: none"> User locks / unlocks Password Resets User information/name Other ? 	<ul style="list-style-type: none"> User Master updated 	N/A	N/A	Not affected	3. Role Provisioning

MIT BUSINESS EVENTS TRIGGERING SAP/RDB AUTH CHANGES AND THE IMPACT ON GRC

Event triggering change	Type of change	SAP UserId and Auth changes	MIT Roles Database (RDB) changes	GRC changes, SOD Risk Analysis impact, FireFighter	Mitigation Signoff	Process Flowchart
MONITORING AND REPORTING						
Ongoing Risk Analysis Review	Identifies a changed user – with unmitigated SOD Access Risk or critical transaction	<ul style="list-style-type: none">• Correct provisioning error – remove role from user• ?	Possible change – most likely, a converted user is still getting old common roles or was incorrectly provisioned.	<ul style="list-style-type: none">• May need to assign user to Risk/Mitigation	Potentially changed	2. Mitigation 3. Role Provisioning
Monthly Compliance review	Execution of mitigation processes and their review and sign-off by the risk owner	<ul style="list-style-type: none">• May trigger a role change or a role assignment change	N/A	<ul style="list-style-type: none">•		1. Roles Maintenance 3. Role Provisioning 5. Compliance review
Ongoing User Access reviews	Review of user access and critical access	<ul style="list-style-type: none">• May trigger a role change or a role assignment change	N/A	<ul style="list-style-type: none">•		1. Roles Maintenance 3. Role Provisioning 5. Compliance review
Firefighter usage		<ul style="list-style-type: none">• Review of security logs ?	N/A	<ul style="list-style-type: none">• Review of Firefighter usage logs ?		4. FireFighter
Ad Hoc reviews	N/A	Maybe some limited use of SUIM reports	N/A	<ul style="list-style-type: none">• Various informational reports – who has what role, what roles does a user have, what is in a role, what are the differences between roles or users, etc• ARA Simulations, in preparation for change requests (User/Role reassignment or Role design).		2. Mitigation 5. Compliance review