Caller Identities and Trust in the SIP.edu Environment

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SIP.edu Components

- BigU PBX
- BigU GW
- BigU Proxy
- Internet2

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Trust Relationships
SIP.edu Call

From: <sip:alice@littleu.edu>
To: <sip:bob@bigu.edu>

Diagram:
- Alice
- Internet2
- BigU PBX
- BigU GW
- BigU Proxy
- Unknown
- Bob

TRUST arrows between nodes.
SIP.edu Call

From: <sip:alice@littleu.edu>
To: <sip:bob@bigu.edu>

From: alice@littleu.edu
Call with “From” Number

From: <sip:17476968000@sip.com>
To: <sip:bob@bigu.edu>
Calling Number Removal

From: <sip:17476968000@sip.com>
To: <sip:bob@bigu.edu>
Calling-ID: <sip:bigu.edu>

From: <17476968000@sip.com>
To: <sip:bob@bigu.edu>
Call with Authentication

From: <sip:sally@bigu.edu>
To: <sip:bob@bigu.edu>
Proxy-Authorization: DIGEST USERNAM...
Calling Number Insertion

From: <sip:sally@bigu.edu>
To: <sip:bob@bigu.edu>
Calling-ID: <sip:17476968000@bigu.edu>

From: <sally@bigu.edu>
To: <sip:bob@bigu.edu>
Proxy-Authorization: DIGEST USERNAM…

BigU PBX

BigU GW

BigU Proxy

747-696-8000

Bob

Sally

AUTH

TRUST
Local Authentication

From: <sip:alice@littleu.edu>
To: <sip:bob@bigu.edu>
Proxy-Authorization: DIGEST USERNAM…
Calling Number Insertion

From: <sip:alice@littleu.edu>
To: <sip:bob@bigu.edu>
Calling-ID: <sip:17476968000@littleu.edu>

From: <alice@little.edu>
To: <sip:bob@bigu.edu>
Proxy-Authorization: DIGEST USERNAM...
Inter-domain Authentication

From: <sip:alice@littleu.edu>
To: <sip:bob@bigu.edu>
Calling-ID: <sip:17476968000@bigu.edu>

From: <alice@little.edu>
To: <sip:bob@bigu.edu>
Proxy-Authorization: DIGEST USERNAM...
Calling-ID: <sip17476968000@littleu.edu>

LittleU Proxy

Internet2

BigU GW

BigU PBX

Bob

747-696-8000

Alice
Inter-domain Authentication Failure

From: <sip:alice@littleu.edu>
To: <sip:bob@bigu.edu>
Calling-ID: <sip:bigu.edu>

From: <alice@little.edu>
To: <sip:bob@bigu.edu>
Proxy-Authorization: DIGEST USERNAM…
Calling-ID: <sip:17476968000@littleu.edu>

From: <alice@little.edu>
To: <sip:bob@bigu.edu>
Calling-ID: <sip:bigu.edu>

LittleU Proxy

BigU GW

BigU PBX

Bob

LittleU Proxy

Internet2

AUTH

AUTH

TRUST

Unknown
Call from PBX

From: <sip:17476968000@bigu.edu>
To: <sip:48999@bigu.edu>
Calling-ID: <sip:17476968000@bigu.edu>