

ETSI TISPAN ISDN simulation services

Roland Jesske

r.jesske@t-com.net

Denis Alexeitsev

d.alexeitsev@t-com.net

Miguel Garcia

miguel.an.garcia@nokia.com

Status

- Separate mailing list setup
 - v sipping-tispan@ietf.org
- Requirements document updated after long discussions
 - draft-jesske-sipping-tispan-requirements-02
- Analysis document has not been updated recently
 - draft-jesske-sipping-tispan-analysis-00
- A bunch of documents propose solutions
 - draft-jesske-sipping-etsi-ngn-reason-00
 - draft-garcia-sipping-etsi-ngn-p-headers-00
 - draft-elwell-sipping-redirection-reason-02
 - draft-elwell-sipping-service-retargeting-00
 - draft-rocky-sipping-calling-party-category-01
 - draft-cao-sip-response-auth-00
 - draft-hautakorpi-reason-header-for-warnings-00
 - draft-elwell-sip-connected-identity-00



Timeframe

- General consensus in TISPAN to reuse existing solutions for meeting the requirements
 - Timeframe: ETSI NGN Release 1, December 2005
- Those requirements for which IETF solutions do not exist will drop the feature or service from Release 1.
 - New timeframe: ETSI NGN Release 2, unavailable date yet.



- TISPAN wants to communicate the IETF their requirements for NGN
- TISPAN wants to receive guidelines from the IETF as for mechanisms to meet those requirements
- Reusing existing solutions has precedence over designing new mechanisms
- But when there are not solutions to meet the requirements, something must be done



Services in scope

- Anonymous Communication Rejection (ACR)
- Communication Diversion (CDIV)
- Terminating Indication Presentation (TIP)
- Advice of Charge (AoC)
- Communication Completion on Busy Subscriber (CCBS)
- Communication Completion on no Reply (CCNR)
- Malicious Communication Identification (MCID)

Anonymous Communication Rejection (ACR)

Issue: Conveyance of service-specific session or transaction termination reasons.

- allow Reason header in unsuccessful responses: draft-jesske-sipping-etsi-ngn-reason-00.txt
- extend "warn-codes" in the Warning: header with additional application specific termination reasons.

Terminating Indication Presentation (TIP)

Issue: Called party needs to provide a nonasserted identity to the calling party

- Reply-To header. Can only be used in requests.
- Call-Info header with a new value for the purpose parameter
- Connected-URI header: draft-elwell-sipconnected-identity-00

Communication Diversion (CDIV)

- Issue: Conveyance of the session origin information to the target after diversions, including diversion reasons.
- Possible solutions:
 - use of draft-ietf-sip-history-info-06 with draft-elwell-sippingservice-retargetting-00
 - use of draft-ietf-sip-history-info-06 with reasons from draft-jennings-sip-voicemail-uri-04. Alignment is needed to express correct redirection reasons and to cover all scenarios described within draft-elwell-sipping-redirection-reason-02

Calling Party Category



- Issue: Group users to different categories.
- Service providers need to identify different subscriber groups to provide specific regulatory services (prison, police, ...) or business services (payphone, hotel, ...). The services can include specific call routing, preemption, restriction/override procedures, ...

- Use of draft-rocky-sipping-calling-party-category-01
- Assign a common identity to a group (e.g. sip:police@example.com)
- Use of draft-mahy-iptel-cpc-02.txt tel URI cpc parameter in P-Asserted-Id header
- P-Caller-Category header
- use of SAML framework



- Issue: Proxies need to open/close gates at different point in time on a session by session basis
 - If gates are always open at the reception of a provisional response, early media is available at the UAC, but fraud is possible
 - If gates are always open at the reception of a 200 OK, early media is never available at the UAC

Proposed solution:

- Define a P- header in connection with the trust model for insertion/removal (like P-Asserted-Identity).
- The P- header indicates that early media might be available
- Typically a PSTN gateway will insert this header, the P-CSCF will remove it

Malicious Communication Identification (MCID)

- Issue 1: How to provide an indication of the malicious sessions from the UA to the network.
 - The logging of the call information is independent of the origin presentation restrictions.
 - The logged information will not be provided to the callee, but to the legal authorities.
 - The user can provide this indication at the start, during or within a certain time after a session or request.

- Define a new event package to trigger the logging. The event package subscription will be performed as a fetch operation.
- Use HTTP or XCAP



Issue 2: How to request the origin identity from the previous domain if not available at the time of the MCID indication receipt.

- define a new or extend an existing event package to transport:
 - dialog id information in the SUBSCRIBE request
 - origin identity in the NOTIFY request



Issue 1: Request for AoC information inside of the INVITE dialog. AoC service is invoked during an active session.

- Use of new P-AoC header as described in draftgarcia-sipping-etsi-ngn-p-headers-00
- Define a new event package



Advice of Charge (AoC)

Issue 2: Conveyance of the AoC Information

- Define a new MIME body with AoC Information
- To be conveyed in MESSAGE or NOTIFY requests, depending on the invocation solution



Issue 1: The UAC needs to know that the service is available in INVITE responses (486 Busy, 180 Ringing, ...)

Possible solution:

Permit the Allow-Events header in 486 response, to indicate the support for the dialog event package



Communication Completion on Busy Subscriber (CCBS)/(CCNR)

Issue 2: The service needs to monitoring the status of the called and calling parties, respectively

- Use the dialog event package, draft-ietf-sippingdialog-package-06
- Use presence information



Issue 3: Ability of the calling party to notify called party of temporary inability to call (suspend), return to ability to call (resume), or cancel the ability to call (cancel)

Possible solutions:

Add a parameter to the "dialog" event package in the SUBSCRIBE request.

Example:

Event: dialog; queue=suspend Event: dialog; queue=resume

Communication Completion on Busy Subscriber (CCBS)

- Issue 4: Indication about sequential notification policy to allow queue management from the subscribers.
- Possible Solutions
 - Add a new parameter to the "dialog" event package in the NOTIFY request

Example:

Event: dialog; queue=true