

# draft-rocky-sipping-calling-party- category-01 Report

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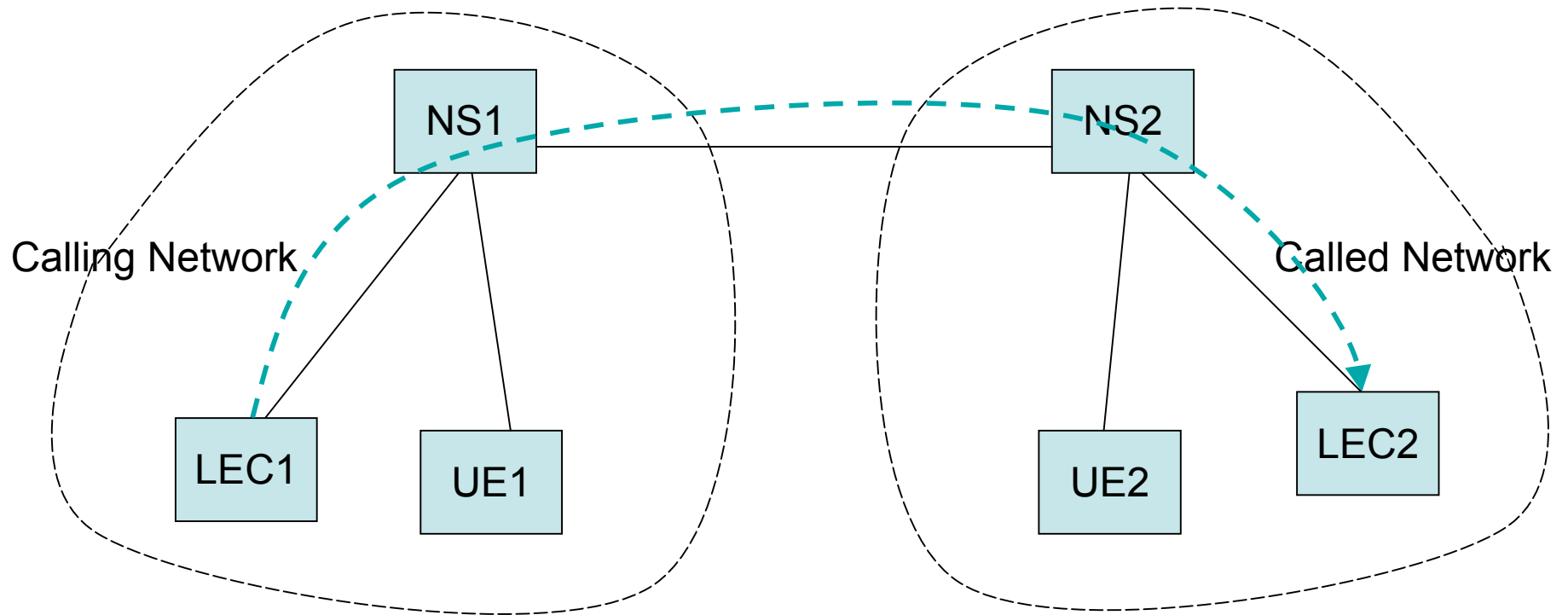
# Background information

- SS7 ISUP defines a Calling Party's Category (CPC) parameter that characterizes the station used to originate a call and carries other important state that can describe the originating party.
- Based on the CPC parameter from the calling network, the called network can do some special processes related to the calling party category, just like override the callee's DND and some other barring services.

# Two typical services

- The Do Not Disturb (DND) supplementary service allows the served user to instruct the network to automatically reject incoming calls because he does not want to be disturbed.
- The Anonymous Call Rejection (ACR) supplementary service allows the served user to reject incoming calls from users or subscribers who have restricted the presentation of their calling party identifier.
- But in some cases, the call should be forward to the callee even though the call should be rejected as the service feature. For an instance, the call is from a police station, emergency call center or from an operator who has the rights to override the served user's services.

# A typical interconnect diagram



NS: Network Server

LEC: Local Exchange Carrier

UE: User Endpoint

# Related Solution

- The draft, draft-mahy-iptel-cpc-02, defines a URI parameter, "cpc", to deliver the CPC parameter and it can deliver the same thing as this SS7 ISUP.
- But:
  - Calling party category is sensitive information and it should be provided by the network but not by the endpoint.
  - If it is created by the endpoint, the network server must assert it. If it is wrong, the proxy can only reject the request and have no change to correct it.
  - If the request is forwarded to an untrusted node, the proxy server still have no chance to hide it from the From header.

# Proposed Solution

- Define a new SIP header to deliver the essential information.
- The calling network entity is responsible for create the header and issues it towards to the callee by the outgoing request message.
- The intermediary entities forward the request to the callee without change the header.

# Proposed Solution (Cont'd)

- If needed, any entity can get the calling party category from the request message and do some special process related to it.
- The intermediary entities should remove the CPC header before forward the request message if the next hop is not trusted.
  - E.g. the next hop is the callee subscriber.

**Any Comments?**



**Thanks!**