

# Tel-URI Enhancements

## DAI, CPC, OLI updates +

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# Scope

- Updates of drafts:
  - draft-yu-tel-dai-08
  - draft-patel-dispatch-cpc-oli-parameter-03
- Liaison Statement from 3GPP
- Charter Proposal for new WG to handle drafts related to Tel-URI enhancements

# Problem Statement

- To define information in SIP analogous to ISUP parameters used to provide the following information:
  - Dial Around Indicator
  - Calling Party's Category
  - Originating Line Information

# DAI Draft

- draft-yu-tel-dai
- Initial draft submitted to IPTTEL WG in 2006
- Latest version incorporates feedback given by Milan Patel during an extensive review of the I-D in 2009
- Current syntax is widely adopted and currently available in existing implementations and deployments.
- Applicable only to Tel-URI and SIP URI representation of Tel-URI
- Approved by 3GPP (a Release 8 requirement) and PacketCable 1.5 and 2.0

# Tel URI Parameters

- RFC4694 adds "cic" parm to identify long-distance carrier for a call
- DAI draft adds "dai" parm to indicate where "cic" came from
  - Presubscribed carrier
  - Dialed by calling user ('1010')
  - Given verbally by calling user
  - Etc
- For SIP calls, DAI is...
  - Added by originating network in INVITE Request-URI
  - Signaled to terminating network / PSTN
  - Stored in billing record by intermediate / terminating nodes and used for billing reconciliation

# CPC/OLI

- draft-patel-dispatch-cpc-oli-parameter
- Calling Party's Category and Originating Line Information
  - Parameters defined in ISUP that characterize the station used to originate a call, carry other information that can describe the originating party and the class of service for a call.
- Syntax is incorporated into 3GPP specs (a Release 7 requirements and a TISPAN Release 1 requirement)
- Applicable only to Tel-URI and SIP URI representation of Tel-URI
- Typical end-point UAs will not populate/see this information
  - Except for a UA acting as a PSTN gateway, interworking SIP to ISUP

# LS from 3GPP

- A reaction to the comments on the mailing list
- [http://www.3gpp.org/ftp/tsg\\_CT/WG1\\_mm-cc-sm\\_ex-CN1/TSGC1\\_64\\_Kyoto/docs/C1-101810.zip](http://www.3gpp.org/ftp/tsg_CT/WG1_mm-cc-sm_ex-CN1/TSGC1_64_Kyoto/docs/C1-101810.zip)
- interworking with ISUP is the only use case currently required and thus a syntax based on tel URI parameters is only necessary
- Syntax as per what is widely implemented and deployed in the field already
- The CPC/OLI is added by a trusted entity in the calling party's network during session establishment. Currently no compelling reasons to

# Further comments

- Comments received
  - Current syntax not “architecturally sound”
  - Need to analyze each CPC/OLI value individually and decide where it would best fit in SIP based on its qualities
- Analysis of comments:
  - This makes implementation complex especially for PSTN gateways. SIP servers that need to add/use the CPC/OLI need to parse more than one part of the SIP request.
  - If new values are required, then extending the syntax is not simple – prefer a solution whereby new values can be IANA registered for example



# Charter Proposal

- Charter proposal:
  - New WG to define enhancements to include DAI, CPC, OLI and RN values (routing other than ported numbers)
  - Enhancements to the Tel-URI? According to currently available drafts.
- Comments received:
  - Need to define problem statements that the WG will address + the semantics of the information to be carried in SIP
  - Address Jurisdiction and system types to use these parameters. Address ways to deal with different versions of ISUP.
  - CPC/OLI values which are already translated into existing

# Way Forward?

- Take into account the current deployments of the proposed syntax.
- Revise Charter and then work on the issues/ comments related to the drafts?
- Any other comments/recommendations for progress?

## Thank You