The Internet Assigned Number Authority (IANA) tel Uniform Resource Identifier (URI) Parameter Registry
draft-jennings-iptel-tel-reg-01

Status of this Memo

By submitting this Internet-Draft, each author represents that any applicable patent or other IPR claims of which he or she is aware have been or will be disclosed, and any of which he or she becomes aware will be disclosed, in accordance with Section 6 of BCP 79.

Internet-Drafts are working documents of the Internet Engineering Task Force (IETF), its areas, and its working groups. Note that other groups may also distribute working documents as Internet-Drafts.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

The list of current Internet-Drafts can be accessed at http://www.ietf.org/ietf/1id-abstracts.txt.

The list of Internet-Draft Shadow Directories can be accessed at http://www.ietf.org/shadow.html.

This Internet-Draft will expire on June 8, 2006.

Copyright Notice

Copyright (C) The Internet Society (2005).

Abstract

This document creates an Internet Assigned Number Authority (IANA) registry for the tel Uniform Resource Identifier (URI) parameters, and their values. It also lists the already existing parameters to be used as initial values for that registry.
Table of Contents

1. Introduction ................................................. 3
2. Terminology .................................................. 3
3. Use of the Registry ......................................... 3
4. IANA Considerations ......................................... 4
   4.1 tel URI Parameters Registry ............................. 4
   4.2 Registration Policy for tel URI Parameters .............. 4
5. Security Considerations ..................................... 5
6. Acknowledgments .............................................. 5
7. References ..................................................... 5
   7.1 Normative References .................................... 5
   7.2 Informative References .................................. 5
    Authors’ Addresses .......................................... 6
    Intellectual Property and Copyright Statements .......... 7
1. Introduction

RFC 3966 [1] allows new tel URI parameters, and new parameter values to be defined. However, RFC 3966 omitted an IANA registry for them. This specification creates such a registry.

2. Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119 [2].

3. Use of the Registry

The tel URI parameters and values for these parameters MUST be documented in a standards-track RFC in order to be registered by IANA. This documentation MUST fully explain the syntax, intended usage, and semantics of the parameter. The intent of this requirement is to assure interoperability between independent implementations, and to prevent accidental namespace collisions between implementations of dissimilar features.

RFCs defining tel URI parameters, or parameter values MUST register them with IANA as described below.

Registered tel URI parameters and their values are to be considered "reserved words". In order to preserve interoperability, registered parameters MUST be used in a manner consistent with that described in their defining RFC. Implementations MUST NOT utilize "private" or "locally defined" URI parameters that conflict with registered parameters.

Some tel URI parameters only accept a set of predefined parameter values while others can take any value. There are also parameters that can not have any value. Registering all parameter values for all tel URI parameters of this type would require a large number of sub-registries. Instead, we have chosen to register URI parameter values by reference. That is, the entry in the URI parameter registry for a given URI parameter contains references to the RFCs defining new values of that parameter.

The tel URI parameter registry contains a column that indicates whether or not each parameter only accepts a set of predefined values. The column can contain Yes, No, or NA. Implementers of parameters with a "yes" in that column need to find all the valid parameter values in the RFCs provided as references. Parameters that are not allowed to have a parameters have a value of "NA".
4. IANA Considerations

The specification creates a new IANA registry named "tel URI Parameters".

4.1 tel URI Parameters Registry

New tel URI parameters and new parameter values are registered by the IANA. When registering a new tel parameter or a new value for a parameter, the following information MUST be provided.

- Name of the parameter.
- Whether the parameter only accepts a set of predefined values. If the parameter does not allow any value, this field is marked as "NA".
- Reference to the RFC defining the parameter and to any RFC that defines new values for the parameter.

Table 1 contains the initial values for this registry.

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Predefined Values</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>isub</td>
<td>Yes</td>
<td>[RFC 3966]</td>
</tr>
<tr>
<td>ext</td>
<td>Yes</td>
<td>[RFC 3966]</td>
</tr>
<tr>
<td>enumdi</td>
<td>NA</td>
<td>[RFC AAAA]</td>
</tr>
<tr>
<td>npdi</td>
<td>NA</td>
<td>[RFC BBBB]</td>
</tr>
<tr>
<td>rn</td>
<td>Yes</td>
<td>[RFC BBBB]</td>
</tr>
<tr>
<td>rn-context</td>
<td>Yes</td>
<td>[RFC BBBB]</td>
</tr>
<tr>
<td>cic</td>
<td>Yes</td>
<td>[RFC BBBB]</td>
</tr>
<tr>
<td>cic-context</td>
<td>Yes</td>
<td>[RFC BBBB]</td>
</tr>
<tr>
<td>tgrp</td>
<td>Yes</td>
<td>[RFC CCCC]</td>
</tr>
<tr>
<td>trunk-context</td>
<td>Yes</td>
<td>[RFC CCCC]</td>
</tr>
</tbody>
</table>

Table 1: IANA tel URI parameter registry

Note to RFC Editor: Please replace AAAA with the RFC number for [6]. Please replace BBBB with the RFC number for [5]. Please replace CCCC with the RFC number for [4].

4.2 Registration Policy for tel URI Parameters

As per the terminology in RFC 2434 [3], the registration policy for tel URI parameters shall be "Specification Required".

For the purposes of this registry, the parameter for which IANA registration is requested MUST be defined by a standards-track RFC.
5. Security Considerations

The registry in this document does not in itself have security considerations. However, as mentioned in RFC 3427, an important reason for the IETF to manage the extensions of SIP is to ensure that all extensions and parameters are able to provide secure usage. The supporting RFC publications for parameter registrations described this specification MUST provide detailed security considerations for them.

6. Acknowledgments

The bulk of this document comes from RFC 3969 [7] written by Gonzalo Camarillo.

7. References

7.1 Normative References


7.2 Informative References

Authors’ Addresses

Cullen Jennings
Cisco Systems
170 West Tasman Drive
Mailstop SJC-21/2
San Jose, CA  95134
USA
Phone:  +1 408 902-3341
Email:  fluffy@cisco.com

Vijay K. Gurbani
Lucent Technologies, Inc./Bell Laboratories
2000 Lucent Lane
Room 6G-440
Naperville, IL  60532
USA
Phone:  +1 630 224-0216
Email:  vkg@lucent.com
Intellectual Property Statement

The IETF takes no position regarding the validity or scope of any Intellectual Property Rights or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; nor does it represent that it has made any independent effort to identify any such rights. Information on the procedures with respect to rights in RFC documents can be found in BCP 78 and BCP 79.

Copies of IPR disclosures made to the IETF Secretariat and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this specification can be obtained from the IETF on-line IPR repository at http://www.ietf.org/ipr.

The IETF invites any interested party to bring to its attention any copyrights, patents or patent applications, or other proprietary rights that may cover technology that may be required to implement this standard. Please address the information to the IETF at ietf-ipr@ietf.org.

Disclaimer of Validity

This document and the information contained herein are provided on an "AS IS" basis and THE CONTRIBUTOR, THE ORGANIZATION HE/SHE REPRESENTS OR IS SPONSORED BY (IF ANY), THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Copyright Statement

Copyright (C) The Internet Society (2005). This document is subject to the rights, licenses and restrictions contained in BCP 78, and except as set forth therein, the authors retain all their rights.

Acknowledgment

Funding for the RFC Editor function is currently provided by the Internet Society.