**A Uniform Resource Name (URN) Namespace for the Open IPTV Forum
                              (OIPF)**
                   <draft-higgs-oipf-urn-00.txt>


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Abstract

   This document describes a Uniform Resource Name (URN) namespace for
   the Open IPTV Forum (OIPF) for naming persistent resources defined
   within OIPF specifications. Example resources include technical
   documents and specifications, eXtensible Markup Language (XML)
   Schemas, classification schemes, XML Document Type Definitions
   (DTDs), namespaces, style sheets, media assets, and other types of
   resources produced or managed by the OIPF.

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**1. Introduction**

   The Open IPTV Forum (OIPF) is a pan-industry initiative with the
   purpose of producing end-to-end specifications for IPTV that will
   take the next generation of IPTV into the mass market. The Forum,
   which is fully open to participation from the communications,
   entertainment and other relevant industries, will focus on the
   development of specifications that will help streamline and
   accelerate deployments of IPTV technologies, and maximize the
   benefits of IPTV for consumers, network operators, content providers,
   service providers, consumer electronics manufacturers and home and
   network infrastructure providers.

   The main objective of the Open IPTV Forum is to produce end-to-end
   specifications for IPTV including:

   o  Architecture and interfaces

   o  Network and terminal functionality

   o  Interactive and personalized services

   o  Technology choices for all major functionalities

o  A common UNI (User-Network Interface) for the Open Internet and
   Managed Networks

o  Certification of equipment including end user devices and service
   provider offerings

The end-to-end specifications support:

o  A variety of IPTV and Internet multimedia services

o  Managed networks and the Open Internet

o  Integration with communication services

o  Convergence of IPTV and multimedia services across different
   access technologies

o  Easy integration of 3rd party content offerings

o  Authentication and content protection

o  Various devices in the home network

The OIPF is basing its end-to-end IPTV specifications on relevant
standards produced by other bodies, and collaborating with them to
encourage convergence where appropriate, and address any shortcomings
or gaps.

In the creation of the end-to-end IPTV specification, some new
resources need to be defined.

The OIPF would like to assign unique, permanent, location-independent
names based on URNs for some resources it produces or manages. These
URNs will be constructed according to the URN syntax defined in
[RFC2141].

This namespace specification is for a formal namespace to be
registered according to the procedures set forth in [RFC3406].

## 2. URN Specification for the OIPF Namespace Identifier (NID)

This section provides the information required to register a formal
namespace according to the registration procedure defined in
[RFC3406]. The URNs conform to the syntax defined in [RFC2141].

Namespace ID:

   "oipf"

Registration Information:

   Version: 1

   Date: 2012-08-13

Declared registrant of the namespace:

   Name:          Dr. Nilo Mitra

   Title:         President

   Affiliation:   Open IPTV Forum

   Address:       Open IPTV Forum e.V. Secretariat,
                  650 Route des Lucioles,
                  06921 Sophia Antipolis Cedex, France.

   Phone:         +33 492 94 43 83

   Email:         contact@oipf.tv

Declaration of structure:

   URNs assigned by the OIPF will have the following structure based
   on the organizational structure of the resources specified in the
   OIPF IPTV Solution specifications:

      urn:oipf:<NSS>

   where the syntax of "<NSS>" is specified in Section 2.2 of the URN
   Syntax requirements ([RFC2141]).

   The individual URNs will be assigned by the OIPF through the
   process of development of OIPF specifications.

Relevant ancillary documentation:

   None.

Identifier uniqueness considerations:

   The OIPF will establish unique identifiers as appropriate and will
   ensure that an assigned string is never reassigned.

Identifier persistence considerations:

   The OIPF is committed to maintaining the accessibility and
   persistence of all resources that are officially assigned URNs by
   the organization. The registration tables and information will be
   published and maintained by the OIPF on its web site.

Process of identifier assignment:

   The assignment of identifiers is fully controlled and managed by
   the OIPF.

Process of identifier resolution:

   Not applicable; the "oipf" namespace is not listed with a
   Resolution Discovery System.

Rules for Lexical Equivalence:

   The "<NSS>" is case-insensitive.

Conformance with URN Syntax:

   No special considerations.

Validation mechanism:

   None specified. URN assignment will be managed completely and
   published by the OIPF.

Scope:

   Global

## [3](). Examples

The following examples of schemas and classification schemes are
taken from the current OIPF Release 1 IPTV Solution specification:

   urn:oipf:device:ig:1

   urn:oipf:config:oitf:oitfCapabilities:2009

        urn:oipf:iptv:IPTVProfile:2008

        urn:oipf:cs:AVMediaFormatCS:2008

        urn:oipf:cs:ApplicationTypeCS:2009

[4](#). **Namespace Considerations**

    A unique formal namespace is required by the OIPF in order to specify
    how the various existing standards can be linked in order to create a
    true end-to-end ecosystem for standards-based IPTV deployments, and
    to provide the necessary system-wide resources.

    URN assignment procedures:

        The individual URNs shall be assigned through the process of
        development of OIPF specifications by the Open IPTV Forum e.v
        (OIPF). The latest information about OIPF defined specifications
        can always be found at the owner's website at

            http://www.oipf.tv/specifications


    URN resolution/delegation:

        The resolution and delegation shall be determined through the
        process of development of specifications by the Open IPTV Forum.

        Since the implementations envisaged cover a wide range of devices
        with quite different access methods and capabilities, no single
        resolution or delegation mechanism can be referenced in this
        document.


    Type of resources to be identified:

        Types of resources to be identified include XML schema definition
        files, classification schemes and identification systems defined
        and published by OIPF. These resources being identified constitute
        a metadata system to describe digital multimedia broadcast services
        or content conveyed as part of such services.

        The latest OIPF defined specifications can always be found at

            http://www.oipf.tv/specifications

5. Community Considerations

   URNs defined by the OIPF will be used by implementers of IPTV
   systems, services, products, and applications based on the OIPF IPTV
   Solution specification. They are an essential component of the open
   IPTV ecosystem that is being facilitated by the OIPF.

6. Security Considerations

   There are no additional security considerations other than those
   normally associated with the use and resolution of URNs in general,
   which are described in [RFC1737], [RFC2141], and [RFC3406].

   This document registers a namespace for URNs.  OIPF may assign
   special meaning to certain of the characters of the Namespace
   Specific String in its specifications.  Any security consideration
   resulting from such assignment is outside the scope of this document.

7. IANA Considerations

   This document defines a URN NID registration of "oipf". IANA is
   requested to include it in the URN Namespaces registry.

8. References

8.1. Normative References

   [RFC1737] Sollins, K. and L. Masinter, "Functional Requirements for
             Uniform Resource Names", RFC 1737, December 1994.

   [RFC2141] Moats, R., "URN Syntax", RFC 2124, May 1997.

   [RFC3406] Daigle, L., van Gulik, D., Iannella, R. and P. Faltstrom,
             "Uniform Resource Names (URN) Namespace Definition
             Mechanisms", October 2002.

8.2. Informative References

   The following specifications are available freely at:

   http://www.oipf.tv/specifications.html

   [OIPF1]   Open IPTV Forum, "Release 1 Specification, Volume 1 -
             Overview", V1.1, October 2009.

   [OIPF2]   Open IPTV Forum, "Release 1 Specification, Volume 2 - Media
             Formats", V1.1, October 2009.

   [OIPF3]   Open IPTV Forum, "Release 1 Specification, Volume 3 -
             Content Metadata", V1.1, October 2009.

   [OIPF4]   Open IPTV Forum, "Release 1 Specification, Volume 4 -
             Protocols", V1.1, October 2009.

   [OIPF5]   Open IPTV Forum, "Release 1 Specification, Volume 5 -
             Declarative Application Environment", V1.1, October 2009.

   [OIPF6]   Open IPTV Forum, "Release 1 Specification, Volume 6 -
             Procedural Application Environment", V1.1, October 2009.

   [OIPF7]   Open IPTV Forum, "Release 1 Specification, Volume 7 -
             Authentication, Content Protection and Service Protection",
             V1.1, October 2009.

## [9](#). Acknowledgments

   This document was prepared using 2-Word-v2.0.template.dot.

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