

ACNS P2P Profile

DRAFT

Notices

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1 SCOPE

This is one of a series of documents that provides additional specification on the use of ACNS 2.0. This document defines ACNS usage information for sending notices in the context of Peer-to-peer networks when sent to and from an ISP, college or university, corporation, or other network provider.

This document references ACNS 2.0 *Automated Content Notice System (ACNS 2.0)*¹. A profile is a selection of elements and usage constraints on those elements when used in defined circumstances.

This document will identify requirements by using either “shall” or “must”. Other information defines best practices.

2 MESSAGES

All messages include only one infringement. Multiple detections of the same infringement may be noted in the Detection element.

3 ACNS ELEMENTS

3.1 Common requirements

- All required elements must be included
- All items are as specified in ACNS 2.0 documentation, but are constrained as noted here.
- When an IP address is used to refer to a subscriber that might be behind address translation, IP Address, Port and Protocol must all be included². There is an allowable grace period until this can be implemented.
- Deprecated elements and attributes should not be included.

3.2 Infringement Element

- Source Element
 - The Type element should be “P2P”
 - If the SubType element should be included
 - BaseType attributed must be “P2P”
 - If the protocol is not one of the enumerated types, do not include the optional Prototype attribute
 - URL_Base and Login should not be included
 - Number_Files should be 1, as only one infringement is included in the notice

¹ MovieLabs document, MPL-ACNS2. This may be found at <http://www.movie-labs.com/ACNS>

² Previously it was incorrectly assumed that protocol was not necessary. However, some NAT servers will assign the same port for both TCP and UDP.

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- Deja_Vu should not be included
 - Content Element
 - Only one Item element should be included
 - Item Element
 - AlsoSeen Element
 - At least one AlsoSeen element should be included showing the time range of the detection.
 - If more than one AlsoSeen element is included, the sender must be certain they are for the same infringement. In isolation, multiple detections of the same IP address and hash are not sufficient as dynamic addresses may move between subscribers.
 - HostingURL should not be included
 - Type and ExplicitType should either both be used or neither used. If used, they should contain the same string.
 - The History element should not be used
 - The Detection element: All attributes and child elements are relevant and should be applied as described in the specification.
 - Verification should be applied in accordance with established practice for P2P verification. This is still in discussion and will be formally referenced when published.
 - TextNotice should contain the same text as the original message.

3.3 NoticeAck Element

All elements and attributes are relevant as described in the ACNS 2.0 specification.

A recipient of a notice containing an Infringement element should respond as soon as it has determined whether the IP address is within their range at the time noted in the infringement. If Sequence is included, it should be 0 (zero). If not included, it is presumed to be zero.

If an error in a NoticeAck is identified, subsequent NoticeAck messages may be sent with monotonically increasing Sequence numbers.

3.4 StatusQuery Element

All elements and attributes are relevant as described in the ACNS 2.0 specification.

A StatusQuery message may be sent at any time. The appropriate response is a StatusUpdate message.

3.5 StatusUpdate Element

All elements and attributes are relevant as described in the ACNS 2.0 specification.

A StatusUpdate message may be sent at any time. That is, it may be sent even if there is no StatusRequest message sent. No response is required.