ACNS Delivery via Email

Notices

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REVISION HISTORY

Version	Date	Notes on version
1.0	2/11/09	Initial Release

1 SCOPE

This document specifies email delivery of ACNS messages as defined in *Automated Content Notice System (ACNS 2.0)*[1].

Future documents may cover APIs for web services-based delivery.

2 EMAIL DELIVERY

Email is the default mechanism for communicating messages. All parties should be capable of sending and receiving signed messages via email.

Email messages conform to applicable RFCs (e.g., 2821, 2822, 2045-2049, and others as appropriate).

2.1 Processing Email Messages

Message sender sends ACNS XML via standard email mechanisms.

Recipient receives email at the specified email address and verifies the authenticity of the message by checking the digital signature. If the received message does not pass the signature test, it may be ignored. Note that this prevents someone from forging notices and flooding a copyright agent. It is strongly encouraged that if this occurs, the sending agent is contacted and warned that someone is forging notices in their name.

If the signature passes the message should be processed.

2.2 Designated Agents

Prior to messages being sent, each potential message recipient provides appropriate email address for delivery of various messages. For example, for ACNS messages, in the United States, a service provider would designate an agent for receipt of DMCA notices as would be found here: http://www.copyright.gov/onlinesp/. Email addresses may be established via separate agreement as appropriate for other types of messages.

2.3 Subject

The recommended form for a subject line is as follows:

<type> + ": " + *<ID>* + *":"* + *<email>*

Where <type> is the ACNS element type (i.e., "Infringement", "NoticeAck", "StatusUpdate", or "StatusRequest"), <ID> is the "id" element from the "Case" element from the "Infringement" element, and <email> is the "email" element from "Complianant" element from the "Infringement" element.

For example:

```
Subject: Infringement: 123456789:abuse@noticesender.com
```

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[1] MovieLabs document, MPL-ACNS2C. This may be found at http://www.movielabs.com/ACNS

2.4 Body

2.4.1 Infringement message

The body of an ACNS infringement message contains the cover letter and ACNS XML. Other ACNS messages contain the XML and optionally a cover letter. The entire message must be signed using PGP. This is current practice in ACNS.

Following is an example of an infringement notice:

```
-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1
Dear ISP,
…
Yours Respectfully,
Content Owner.

<?xml version="1.0" encoding="iso-8859-1"?>

<Infringement
xmlns="http://www.movielabs.com/ACNS"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
…

</Infringement>
-----BEGIN PGP SIGNATURE-----
Version: GnuPG v2.0.8 (FreeBSD)

iQEcBAEBAgAGBQJJbNcWAAoJEL3U2pfJUDus7D0H/im8siM5j7SzlOWkdNL0oTH3
e+hoR4NoOBOelxUkFOHfDZ/ljJJThJJTbeSSryny/VPXwNqo90PNjgsjSy5pYyeC
egccHwSLtE+R6RmqHZn3hmjmoGR7OMXhhRYRWt5acoYuxLak3UL+sPzG69atkLNf
aBEhooIELphfXERn4BjFmksTyZsEfDKEa+iAtoKdIYFG27wegC6RXKQvGDDf/okI
8ZSZiVMCdb/hg+1FSDSdzf3gWNoD9dRy4VK6DYnmSh1Jqw6QjwalaelyAieZZYLe
5mxuCzQIBgknBgdvvkNHMxYIcRrM5LWJDDaCArYz1iWhcf731/oGHq9q/AmPIFc=
=H/9J
-----END PGP SIGNATURE-----
```

2.4.2 Other messages

New ACNS 2.0 messages are not constrained by legacy. This format is to be used for ACNS messages other than Infringement.

The body of the message contains the Message Envelope, describe by the MessageEnvelope element below. It may optionally contain a cover letter prior to the XML.

```
If you receive this message by mistake, please call
Jonathan Do at 1-310-555-5555.

<?xml version="1.0" encoding="iso-8859-1"?>
<MessageEnvelope>
…
</MessageEnvelope>
```

2.5 Message Responses

Some messages require responses to be sent to the sender. The message definition section of the document defines the response obligations and processing logic for each message that is defined in the GR program, including but not limited to ACNS messages.

2.6 Transport Security

Email may be encrypted in accordance with RFC 3156. This must be by agreement and with appropriate key exchange.

3   CONTAINERS

This section defines message containers. These apply to NoticeAck, StatusUpdate and StatusRequest, but not Infringement (for legacy reasons).

There are provisions for signing and for packing multiple messages together. Usage of these specific options are defined the delivery mechanisms (i.e., email or web services).

3.1 MessageEnvelope element

The MessageEnvelope carries a Messages element that can carry one or more messages messages[2].

Element	Attribute	Definition	Value
MessageEnvelope			
Messages		Message wrapper and data (choice of Message or BulkMessage)	See Message element

3.2 Messages Element

A Messages element may carry multiple Message elements.

Element	Attribute	Definition	Value
Messages		Collection of multiple messages	
Message		One or more Message elements (1..n)	See Message element

3.3 Message Element

The basic element is the Message element. It contains a single message, such as an ACNS 2.0 NoticeAck. The particular purpose for this element is to include a Type attribute that instructs the recipient the type of message contained.

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[2] This structure may seem overly complicated but its generalization is designed to support future web services APIs.

Element	Attribute	Definition	Value
Message		One message, as defined in the message definition section, for example an Infringement element.	Choice of NoticeAck, StatusUpdate or StatusRequest element
	Type	Type of message: Element name for message type (e.g., "Infringement").	xs:string