November 19, 2015

To: OPRA Multicast Data Recipients

Subject: Implementation of new OPRA Expanded Message Header Formats – Revised UPDATE 4

What’s New:

Pursuant to the previous notifications generated to all OPRA Data Recipients, OPRA is introducing new Expanded Message Header formats to support a new Transaction ID field which will be supported in the OPRA Multicast Output Message Header. This new Transaction ID field will allow Participants/OPRA to cross reference inbound transactions with their corresponding outbound transactions. The Multicast Output Transaction ID information is intended for SIP Internal Use Only. Data Recipients should ignore/disregard this field to the extent that they do not impact their normal data processing.

What’s Changing:

To accommodate the new Transaction ID field in outbound messages, the Block Header will be generated with a new Version number “5” and the Message Header will be expanding from a total of 4 bytes to 12 bytes and will include the following field modification:

<table>
<thead>
<tr>
<th>OLD (EXISTING) MESSAGE HEADER FORMAT</th>
<th>NEW EXPANDED MESSAGE HEADER FORMAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Name</td>
<td>Length</td>
</tr>
<tr>
<td>Participant ID</td>
<td>1</td>
</tr>
<tr>
<td>Message Category</td>
<td>1</td>
</tr>
<tr>
<td>Message Type</td>
<td>1</td>
</tr>
<tr>
<td>Message Indicator</td>
<td>1</td>
</tr>
<tr>
<td><strong>Transaction ID</strong></td>
<td></td>
</tr>
<tr>
<td>Total Length</td>
<td>4</td>
</tr>
</tbody>
</table>
When is it Changing: Revised UPDATE 4

To allow Data Recipients additional test time, the revised implementation date of the new OPRA Expanded Message header is:

- **February 8, 2016**

Industry Tests: Revised UPDATE 4

The final industry tests will take place on:

- **January 9, 2016**
- **February 6, 2016** (final test before activation date)

Test data with the new Expanded Message Header will be disseminated over the OPRA Production lines.

Implementation Details: Revised UPDATE 4

- OPRA will support both the new Expanded Message Header formats and the old (current) Message Header formats for a transitional period allowing for a rapid fallback.
- **Data Recipients should be prepared to process both the new Expanded Message Header formats and the old (current) Message Header formats until February 29, 2016, in the event of a complete fallback (all multicast 48 lines), or a partial fallback (one or more multicast lines).**
- Data Recipients that are unable to process both old and new Message Header formats may cease to receive multicast data in the event of a fallback.

Testing Schedule

Replay files with test data including the new OPRA Expanded Message Header formats have been available since August 3rd. Test data will be disseminated Monday - Friday from 9:00 – 9:15 p.m. ET from the multicast Playback Test channels (not over Production channels).

To coordinate testing, and to **provide verbal or written confirmation of testing which is required by all Data Recipients**, please register in one of the following ways:

1. E-mail your name, organization name, phone number, and date of test request(s) to: CQS-CTS-OPRA@siac.com, or
2. Contact the Client Support Desk at 212-896-2830, Option 6.

Indirect Data Recipients must contact their service provider to coordinate testing.

Documentation

Please reference the latest OPRA Output Multicast Specifications, which may be obtained at the website: [www.opradata.com](http://www.opradata.com).