Change Topic: Clarification of CNAV Broadcast Intervals

This change package accommodates the text changes to support the proposed solution (see table below) within the public Signals-in-Space (SiS) documents. All comments must be submitted in Comments Resolution Matrix (CRM) form.

The columns in the WAS/IS table following this page are defined below:

Section Number: This number indicates the location of the text change within the document.

Proposed Heading: Contains existing and/or proposed changes to section titles and/or the titles to new sections

(WAS) <Document Title>: Contains the baseline text of the impacted document.

Proposed Object Text: Contains proposed changes to baseline text.

PROBLEM STATEMENT:
The current CNAV/CNAV-2 broadcast intervals tables in IS-GPS-200, IS-GPS-705, and IS-GPS-800 do not clearly convey the separate, distinct characteristics between each type of almanac message data (Reduced Almanac, Midi Almanac) and associated message type numbers (Message Type 31 and 37, respectively); nor do the tables note the operational flexibility retained by AFSPC. A literal reading of the existing CNAV/CNAV-2 broadcast intervals tables has -- and will likely continue to -- cause the Control Segment to waste valuable CNAV/CNAV-2 throughput broadcasting unnecessary CNAV/CNAV-2 messages.
SOLUTION: *(Proposed)*
Clarify the differences/separation/options for each CNAV message type/data, message type number, and associated broadcast intervals.

<table>
<tr><th>Section</th><th>IS-GPS-200 RevG (5 Sep 2012) Navstar GPS Space Segment/Navigation User Interfaces</th><th>Proposed CNAV Broadcast Intervals Changes</th></tr>
<tr><td>30.3.4.1</td><td>
<table>
<tr><td colspan="3">Table 30-XII. Message Broadcast Intervals</td></tr>
<tr><th>Message Data</th><th>Message Type Number</th><th>Maximum Broadcast Intervals †</th></tr>
<tr><td>Ephemeris</td><td>10 & 11</td><td>48 sec</td></tr>
<tr><td>Clock</td><td>Type 30’s</td><td>48 sec</td></tr>
<tr><td>ISC, IONO</td><td>30 *</td><td>288 sec</td></tr>
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<tr><td>Midi Almanac</td><td>37</td><td>120 min**</td></tr>
<tr><td>EOP</td><td>32*</td><td>30 min</td></tr>
<tr><td>UTC</td><td>33*</td><td>288 sec</td></tr>
<tr><td>Diff Correction</td><td>34* or 13 & 14</td><td>30 min***</td></tr>
<tr><td>GGTO</td><td>35*</td><td>288 sec</td></tr>
<tr><td>Text</td><td>36* or 15</td><td>As needed</td></tr>
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*** When Differential Corrections are available.
† The intervals specified are maximum. As such, the broadcast intervals may be shorter than the specified value.</td></tr>
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