

PROPOSED INTERFACE REVISION NOTICE (PIRN)

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Affected ICD/IS:
IS-GPS-800, Rev. D

PIRN Number:
PIRN-IS-800D-002

Authority:
RFC-00268

PIRN Date: 02-JUL-2015

CLASSIFIED BY: N/A
DECLASSIFY ON: N/A

Document Title:
Navstar GPS Space Segment/User Segment L1C Interfaces

Reason For Change (Driver):

The parameters used to calculate IAURANED from the CNAV-2 message incorrectly reference Message Type 10 in IS-GPS-800. CNAV-2 utilizes the Frame/Subframe architecture, and the parameters needed to calculate IAURANED are located in Subframe 2, not Message Type 10.

Description of Change:

Replace "Message Type 10" with "Subframe 2" (one instance) in affected sentence in paragraph 3.5.3.8 of IS-GPS-800.

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THIS DOCUMENT SPECIFIES TECHNICAL REQUIREMENTS AND NOTHING HEREIN CONTAINED SHALL BE DEEMED TO ALTER THE TERMS OF ANY CONTRACT OR PURCHASE ORDER BETWEEN ALL PARTIES AFFECTED.

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CODE IDENT 5UTE1

IS800-188 :**WAS :**

Bits 460 through 470 of subframe 2 shall contain the URA_{NED0} Index, URA_{NED1} Index, and URA_{NED2} Index of the SV (reference paragraph 6.2.1) for the user. The following equations together with the broadcast URA_{NED0} Index, URA_{NED1} Index, and URA_{NED2} Index shall give the clock-related user range accuracy of $IAURA_{NED}$ over the current clock/ephemeris fit interval. While the actual NED-related URA may vary over the satellite footprint, the $IAURA_{NED}$ calculated using the parameters in message type 10 at each instant during the current clock/ephemeris fit interval shall bound the maximum $IAURA_{NED}$ expected for the worst-case location within the satellite footprint at that instant.

IS :

Bits 460 through 470 of subframe 2 shall contain the URA_{NED0} Index, URA_{NED1} Index, and URA_{NED2} Index of the SV (reference paragraph 6.2.1) for the user. The following equations together with the broadcast URA_{NED0} Index, URA_{NED1} Index, and URA_{NED2} Index shall give the clock-related user range accuracy of $IAURA_{NED}$ over the current clock/ephemeris fit interval. While the actual NED-related URA may vary over the satellite footprint, the $IAURA_{NED}$ calculated using the parameters in subframe 2 at each instant during the current clock/ephemeris fit interval shall bound the maximum $IAURA_{NED}$ expected for the worst-case location within the satellite footprint at that instant.
