	CHANGE NOTICE	
Affected Document:	IRN/SCN Number	Date:
IS-GPS-800 Rev G	XXX-XXXX-XXX	DD-MMM-YYYY
Authority:	Proposed Change Notice	Date:
RFC-00413	PCN-IS-800G-RFC413	09-JUN-2020

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

Document Title: NAVSTAR GPS Space Segment/ User Segment L1C Interface

RFC Title: Integrity Support Messages

Reason For Change (Driver):

- 1. Navigation integrity for Global Navigation Satellite Systems (GNSS) including GPS has, to date, been codified in performance standard(s) documentation. The implication is that receiver manufacturers must extract information manually and encode it into GNSS receivers. This has two negative effects: 1) operational receivers cannot be modified without a maintenance cycle when updated standards are released; 2) for other-than-GPS systems, receiver manufacturer reliance on documentation produced by foreign entities.
- 2. Affected documents: IS-GPS-200, IS-GPS-705, and IS-GPS-800.

Description of Change:

Define an Integrity Support Message (ISM) that contains pertinent integrity information about GNSS constellations including, and that are compatible with, GPS and broadcast the ISM via CNAV (L2C & L5) and CNAV-2 (L1C). These messages enable the end user to perform Advanced Receiver Autonomous Integrity Monitoring (ARAIM).

Authored By: RE: Anthony Flore	S Checked By: Alber	rt Hayden
AUTHORIZED SIGNATURES	REPRESENTING	DATE
	GPS Enterprise	
	Space & Missile Systems Center (SMC) – LAAFB	

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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.	Interface Control Contractor: SAIC (GPS SE&I) 200 N. Pacific Coast Highway, Suite 1800 El Segundo, CA 90245
	CODE IDENT 66RP1

IS800-140:

Section Number:

3.5.1.0-3

WAS:

Subframe 3 provides other navigation data which is commutated over multiple pages. Each page of subframe 3 provides different data as shown in Figures 3.5-2 through 3.5-8. Additional subframe 3 pages may be defined in the future. It shall be noted that the broadcast sequence of subframe 3 pages is variable and, as such, users must not expect a fixed pattern of page sequence. Subframe 3 provides an 8-bit PRN number of the transmitting SV with a range of 0 (00000000) to 255 (111111111).

Redlines:

Subframe 3 provides other navigation data which is commutated over multiple pages. Each page of subframe 3 provides different data as shown in Figures 3.5-2 through 3.5-88a. Additional subframe 3 pages may be defined in the future. It shall be noted that the broadcast sequence of subframe 3 pages is variable and, as such, users must not expect a fixed pattern of page sequence. Subframe 3 provides an 8-bit PRN number of the transmitting SV with a range of 0 (00000000) to 255 (111111111).

IS:

Subframe 3 provides other navigation data which is commutated over multiple pages. Each page of subframe 3 provides different data as shown in Figures 3.5-2 through 3.5-8a. Additional subframe 3 pages may be defined in the future. It shall be noted that the broadcast sequence of subframe 3 pages is variable and, as such, users must not expect a fixed pattern of page sequence. Subframe 3 provides an 8-bit PRN number of the transmitting SV with a range of 0 (00000000) to 255 (111111111).

Rationale:

The new figure for the ISM will be Figure 3.5-8a to maintain numbering scheme. Making a global change to incorporate the new figure

IS800-1030:

Insertion after object IS800-371 (placed after text)

Figure 3.5-8. Subframe 3, Page 7 - SV Configuration

Section Number:

3.5.2.0-19

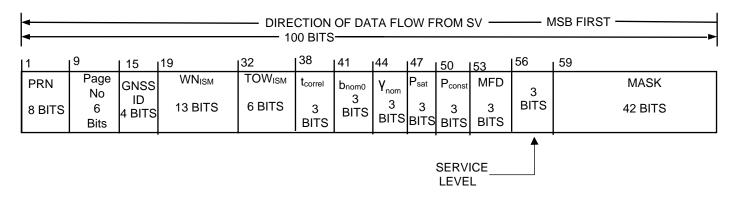
WAS:

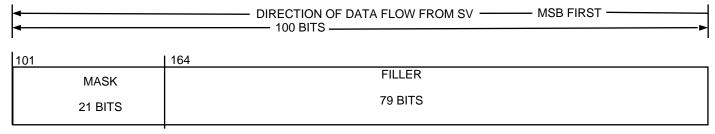
<INSERTED OBJECT>

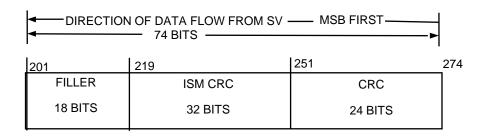
Redlines:

<INSERTED OBJECT>

IS:







Note: Broadcast sequence of subframe 3 pages is a variable and, as such, users must not expect a fixed pattern of page sequence

Rationale: Adding the Figure that depicts the Structure of the ISM in CNAV-2.
IS800-1031: Insertion after object IS800-1030
Section Number : 3.5.2.0-20
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Figure 3.5-8a Subframe 3, Page 8, Integrity Support Message
Rationale: Adding appropriate Figure Caption
IS800-1032 : Insertion after object IS800-283 (placed after Sec 3.5.4.6)
3.5.4.6 Subframe 3, Page 7 - SV Configuration
Section Number: 3.5.4.7
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Object Heading: Subframe 3, Page 8- Integrity Support Message (ISM)
Rationale : New section for ARAIM users that has details on the ISM

IS800-1034 : Insertion below object IS800-1032
Section Number : 3.5.4.7.0-1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Figure 3.5-8a contains the structure of the Subframe 3, Page 8 message. The contents are defined below, followed by material pertinent to the use of the Integrity Support Message (ISM) data. Users who implement Advanced Receiver Autonomous Integrity Monitoring (ARAIM) may use these parameters for the ARAIM algorithm as referenced in future TSO and MSO.
Rationale: Main ARAIM algorithms are found in the referenced documents. They are currently in work and when finalized the references need to be updated. Also spelling out ARAIM since it is the first mention of it.
IS800-1033: Insertion after object IS800-1034
Section Number: 3.5.4.7.1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS:

 ${\it Object\ Heading: ISM\ Parameter\ Content}$

Rationale:

Parameter section

Insertion below object IS800-1033 Section Number: 3.5.4.7.1.0-1 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Subframe 3, Page 8 shall contain the parameters related to GNSS constellation and satellite integrity parameters used for ARAIM algorithms. Rationale: The message has only ISM parameters. IS800-1036: Insertion after object IS800-1035 Section Number: 3.5.4.7.1.0-2 WAS:</inserted></inserted>
3.5.4.7.1.0-1 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Subframe 3, Page 8 shall contain the parameters related to GNSS constellation and satellite integrity parameters used for ARAIM algorithms. Rationale: The message has only ISM parameters. IS800-1036: Insertion after object IS800-1035 Section Number: 3.5.4.7.1.0-2</inserted></inserted>
Redlines: <inserted object=""> IS: Subframe 3, Page 8 shall contain the parameters related to GNSS constellation and satellite integrity parameters used for ARAIM algorithms. Rationale: The message has only ISM parameters. IS800-1036: Insertion after object IS800-1035 Section Number: 3.5.4.7.1.0-2</inserted>
IS: Subframe 3, Page 8 shall contain the parameters related to GNSS constellation and satellite integrity parameters used for ARAIM algorithms. Rationale: The message has only ISM parameters. IS800-1036: Insertion after object IS800-1035 Section Number: 3.5.4.7.1.0-2
Subframe 3, Page 8 shall contain the parameters related to GNSS constellation and satellite integrity parameters used for ARAIM algorithms. Rationale: The message has only ISM parameters. IS800-1036: Insertion after object IS800-1035 Section Number: 3.5.4.7.1.0-2
The message has only ISM parameters. IS800-1036: Insertion after object IS800-1035 Section Number: 3.5.4.7.1.0-2
Insertion after object IS800-1035 Section Number: 3.5.4.7.1.0-2
Section Number : 3.5.4.7.1.0-2
WAS:
<inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS : The bit lengths, scale factors, ranges, and units of these parameters are given in Table 3.5-9.
Rationale: Statement directing the user to the parameter table.

IS800-1037 :
Insertion after object IS800-1036
Section Number :
3.5.4.7.1.0-3
WAS:
<inserted object=""></inserted>
Redlines:
<inserted object=""></inserted>
IS:
The CS shall upload the current ISM parameters, when necessary, to the SVs.
Rationale :
Add requirement that makes it explicit that CS will upload this new message.
IS800-1039 :
Insertion after object IS800-1037
Section Number :
3.5.4.7.1.0-5
WAS:
<inserted object=""></inserted>
Redlines :
<inserted object=""></inserted>
IS:
Table 3.5-9 ISM Parameters
Rationale :
Parameter Table Caption

IS800-1040:

Insertion after object IS800-1039

Section Number:

3.5.4.7.1.0-6

WAS:

<INSERTED OBJECT>

Redlines:

<INSERTED OBJECT>

IS:

Parameter	No. of Bits**	Scale Factor (LSB)	Valid Range***	Units
GNSS ID	4			
WN_{ISM}	13	1		week
$\mathrm{TOW}_{\mathrm{ISM}}$	6	4	0 to 164	hours
t_{correl}	3		0 to 12	hours
$b_{\text{nom}0}$	3		0 to 2	meter
$\gamma_{ m nom}$	3		0 to 2	
$\mathbf{P}_{ ext{sat}}$	3		1e ⁻³ to 1e ⁻⁹	
P_{const}	3		1e ⁻³ to 1e ⁻⁹	
MFD	3		0.25 to 24	hours
Service Level*	3			
Mask ****	63			

^{*} See Table 3.5-10 for Service Level Descriptions

Object Type : Table

Rationale:

Adding Parameter table for the ISMs

^{**} See Figure 3.5-8a for complete bit allocation in Subframe 3, Page 8

^{***} Unless otherwise indicated in this column, valid range is the maximum range attainable with indicated bit allocation and scale factor

^{****} See Table 3.5-11 for Mask bit mapping

IS800-1	041 : n after object IS800-1040
	Number :
WAS:	TED OBJECT>
Redline <insert< td=""><td>rs : TED OBJECT></td></insert<>	rs : TED OBJECT>
IS : Object H	Heading: GNSS Constellation ID
Rationa First ISN	Ile: M parameter in the Message Structure. Sections will go in order of the message structure
IS800-1	042 : n below object IS800-1041
Section 3.5.4.7.	Number : 1.1.0-1
WAS:	TED OBJECT>
Redline <insert< td=""><td>s : TED OBJECT></td></insert<>	s : TED OBJECT>
IS : Bits 15 t	through 18 of Subframe 3, Page 8 shall identify the GNSS service to which the associated ISM parameters apply.
	ile: who use the ISM will need to know which GNSS system is to apply these parameters for. Therefore, the first state is a four bit ID that defines each system.

IS800-1043 : Insertion after object IS800-1042
Section Number: 3.5.4.7.1.1.0-2
WAS : <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: The four bits are defined as follows:
0000 = No Data Available
0001 = Galileo
0010 = GLONASS
0011 = BeiDou
0100 = GPS
0101 = SBAS
0110 = QZSS
0111 = IRNSS
1000 to 1111 = Reserved for future systems
Rationale : Bit Definition for the Constellation ID
IS800-1074 : Insertion after object IS800-1043
Section Number : 3.5.4.7.1.1.0-3
WAS : <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: If users see four bits of '0000', users will ignore the entire ISM.
Rationale: Statement that gives guidance to the users to ignore the ISM if they get a "0000"

IS800-1044: Insertion after object IS800-1041
Section Number : 3.5.4.7.1.2
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Object Heading: ISM Effectivity Time Stamp Week Number
Rationale : ISM Time Stamp Header
IS800-1045 : Insertion below object IS800-1044
Section Number : 3.5.4.7.1.2.0-1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Bits 19 through 31 of Subframe 3, Page 8 shall provide the ISM Week Number (WN _{ISM}) applicable to the start of the time of validity for a given ISM data issue.
Rationale: Users who use the ISM will need to know the time the parameters are created. This parameter in terms of weeks does so.

IS800-1075 :
Insertion after object IS800-1045
Section Number :
3.5.4.7.1.2.0-2
WAS:
<inserted object=""></inserted>
Redlines:
<inserted object=""></inserted>
IS:
This parameter describes the time stamp, in terms of weeks, for the ISM parameters.
Rationale:
Users who use the ISM will need to know the time the parameters are created. This parameter in terms of weeks does
SO.
IS800-1046 :
Insertion after object IS800-1044
Section Number :
3.5.4.7.1.3
WAS:
<inserted object=""></inserted>
Redlines:
<inserted object=""></inserted>
IS:
Object Heading: ISM Effectivity Time Stamp Time of Week
Rationale :
ISM Time Stamp Header

IS800-1047: Insertion below object IS800-1046
Section Number : 3.5.4.7.1.3.0-1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
${f IS}$: Bits 32 through 37 of Subframe 3, Page 8 shall provide the ISM time of week (TOW $_{ISM}$) applicable to the start of the time of validity for a given ISM data issue.
Rationale: Users who use the ISM will need to know the time the parameters are created. This parameter in terms of hours does so.
IS800-1076 : Insertion after object IS800-1047
Section Number: 3.5.4.7.1.3.0-2
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS : This parameter describes the time stamp, in terms of hours, for the ISM parameters.
Rationale: Users who use the ISM will need to know the time the parameters are created. This parameter in terms of hours does so.

IS800-1048: Insertion after object IS800-1046
Section Number : 3.5.4.7.1.4
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Object Heading: Correlation Time Constant
Rationale : tcorrel header
IS800-1049 : Insertion below object IS800-1048
Section Number : 3.5.4.7.1.4.0-1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
$\textbf{IS}: \\$ Bits 38 through 40 of Subframe 3, Page 8 shall provide the assumed Correlation Time Constant (t_{correl}) value for the ARAIM at the current time for the associated GNSS constellation.
Rationale : This parameter is used for the ARAIM algorithm to find an integrity solution

IS800-1050 : Insertion after object IS800-1049
Section Number : 3.5.4.7.1.4.0-2
WAS : <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS : The three bits allocated are defined as follows:
000 = 0.25 hours
001 = 0.67 hours
010 = 1.0 hours
011 = 1.5 hours
100 = 3.0 hours
101 = 6.0 hours
110 = 12.0 hours
111 = RESERVED
Rationale: Bit definitions that map to the different time constants
IS800-1051 : Insertion after object IS800-1048
Section Number : 3.5.4.7.1.5
WAS : <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Object Heading: Additive Term for Nominal Pseudorange Error Bits
Rationale : Additive Term Header

IS800-1052 : Insertion below object IS800-1051
Section Number : 3.5.4.7.1.5.0-1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
$\textbf{IS}: \\$ Bits 41 through 43 of Subframe 3, Page 8 shall provide the assumed Additive Term (b _{nom0}) for ARAIM at the current time for the associated GNSS constellation.
Rationale: This parameter is used for the ARAIM algorithm to find an integrity solution
IS800-1053 : Insertion after object IS800-1052
Section Number: 3.5.4.7.1.5.0-2
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: The three bits are defined as follows:
000 = 0.00 meters
001 = 0.25 meters
010 = 0.50 meters
011 = 0.75 meters
100 = 1.00 meters
101 = 1.25 meters
110 = 1.50 meters
111 = 2.00 meters
Rationale : Bit definitions that map to the different terms

IS800-1054: Insertion after object IS800	0-1051
Section Number: 3.5.4.7.1.6	
WAS: <inserted object=""></inserted>	
Redlines : <inserted object=""></inserted>	
IS : Object Heading : Scalar Te	erm for Nominal Pseudorange Error Bias
Rationale : Scalar Term header	
IS800-1055 : Insertion below object IS80	00-1054
Section Number : 3.5.4.7.1.6.0-1	
WAS : <inserted object=""></inserted>	
Redlines : <inserted object=""></inserted>	
IS: Bits 44 through 46 of Subfi time for the associated GN	rame 3, Page 8 shall provide the assumed Scalar Term (Ynom) value for ARAIM at the current NSS constellation.
Rationale: This parameter is used for	the ARAIM algorithm to find an integrity solution

Insertion after object IS800-1055 Section Number: 3.5.4.7.16.0-2 WAS: «INSERTED OBJECT> Redlines: «INSERTED OBJECT> IS: The three bits are defined as follows: 000 = 0.00 meters 001 = 0.25 meters 010 = 0.50 meters 011 = 0.75 meters 100 = 1.00 meters 101 = 1.25 meters 111 = 2.00 meters 111 = 2.00 meters Isi definitions that map to the different terms ISS00-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: «INSERTED OBJECT> Redlines: «INSERTED OBJECT> Redlines: «INSERTED OBJECT> Isi Cobject Heading: Satellite Fault Probability	
<pre><inserted object=""> Redlines : <inserted object=""> IS: The three bits are defined as follows: 000 = 0.00 meters 001 = 0.25 meters 010 = 0.50 meters 011 = 0.75 meters 100 = 1.00 meters 110 = 1.25 meters 111 = 2.00 meters 111 = 2.00 meters 111 = 2.00 meters Rationale : Bit definitions that map to the different terms IS800-1057 : Insertion after object IS800-1054 Section Number : 3.5.4.7.1.7 WAS : <inserted object=""> Redlines : <inserted object=""> Redlines : <inserted object=""> IS: Object Headling : Satellite Fault Probability</inserted></inserted></inserted></inserted></inserted></pre>	IS800-1056: Insertion after object IS800-1055
Redlines: <inserted object=""> IS: The three bits are defined as follows: 000 = 0.00 meters 001 = 0.25 meters 010 = 0.50 meters 011 = 0.75 meters 110 = 1.00 meters 110 = 1.25 meters 110 = 1.50 meters 111 = 2.00 meters 111 = 2.00 meters 111 = 2.00 meters Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: INSERTED OBJECT> IS: INSERTED OBJECT></inserted></inserted></inserted>	
<pre>INSERTED OBJECT> IS: The three bits are defined as follows: 000 = 0.00 meters 001 = 0.25 meters 010 = 0.50 meters 011 = 0.75 meters 100 = 1.00 meters 100 = 1.00 meters 110 = 1.25 meters 111 = 2.00 meters 111 = 2.00 meters Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted></pre>	
The three bits are defined as follows: 000 = 0.00 meters 001 = 0.25 meters 010 = 0.50 meters 011 = 0.75 meters 100 = 1.00 meters 101 = 1.25 meters 101 = 1.25 meters 110 = 1.50 meters 111 = 2.00 meters Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted>	
001 = 0.25 meters 010 = 0.50 meters 011 = 0.75 meters 100 = 1.00 meters 101 = 1.25 meters 110 = 1.50 meters 111 = 2.00 meters 111 = 2.00 meters Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: INSERTED OBJECT> Redlines: (INSERTED OBJECT> IS: Object Heading: Satellite Fault Probability	
010 = 0.50 meters 011 = 0.75 meters 100 = 1.00 meters 101 = 1.25 meters 110 = 1.50 meters 111 = 2.00 meters Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: INSERTED OBJECT Redlines: INSERTED OBJECT> IS: Object Heading: Satellite Fault Probability	000 = 0.00 meters
011 = 0.75 meters 100 = 1.00 meters 101 = 1.25 meters 110 = 1.50 meters 111 = 2.00 meters Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted>	001 = 0.25 meters
100 = 1.00 meters 101 = 1.25 meters 110 = 1.50 meters 111 = 2.00 meters Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: INSERTED OBJECT> Redlines: INSERTED OBJECT> IS: Object Heading: Satellite Fault Probability	010 = 0.50 meters
101 = 1.25 meters 110 = 1.50 meters 111 = 2.00 meters Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted>	011 = 0.75 meters
110 = 1.50 meters Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted>	100 = 1.00 meters
Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted>	101 = 1.25 meters
Rationale: Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted>	110 = 1.50 meters
Bit definitions that map to the different terms IS800-1057: Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted>	111 = 2.00 meters
Insertion after object IS800-1054 Section Number: 3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted>	
3.5.4.7.1.7 WAS: <inserted object=""> Redlines: <inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted></inserted>	
<pre><inserted object=""> Redlines : <inserted object=""> IS : Object Heading : Satellite Fault Probability</inserted></inserted></pre>	
<inserted object=""> IS: Object Heading: Satellite Fault Probability</inserted>	
Object Heading: Satellite Fault Probability	
Rationale :	
Psat Header	

IS800-1058 : Insertion below object IS800-1057
Section Number : 3.5.4.7.1.7.0-1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
${f IS}$: Bits 47 through 49 of Subframe 3, Page 8 shall provide the assumed Satellite Fault Probability (${P_{sat}}$) value for ARAIM at the current time for the associated GNSS constellation.
Rationale: This parameter is used for the ARAIM algorithm to find an integrity solution
IS800-1059 : Insertion after object IS800-1058
Section Number : 3.5.4.7.1.7.0-2
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: The three bits are defined as follows:
$000 = 1 \times 10^{-3} / \text{hours}$
$001 = 1 \times 10^{-4} / \text{hours}$
$010 = 1 \times 10^{-5} / hours$
011 = 1 x 10 ⁻⁶ /hours
$100 = 1 \times 10^{-7} / \text{hours}$
101 = 1 x 10 ⁻⁸ /hours
110 = 1 x 10 ⁻⁹ /hours
111 = RESERVED

Rationale:

Bit definitions that map to the different terms

IS800-1063 : Insertion after object IS800-1057
Section Number: 3.5.4.7.1.8
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS : Object Heading : Constellation Fault Probability
Rationale : Pconst Header
IS800-1064 : Insertion below object IS800-1063
Section Number : 3.5.4.7.1.8.0-1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS : Bits 50 through 52 of Subframe 3, Page 8 shall provide the assumed Constellation Fault Probability (P _{const}) value for the ARAIM at the current time for the associated GNSS constellation.
Rationale: This parameter is used for the ARAIM algorithm to find an integrity solution

Rationale : MFD Header	
IS : Object Heading : Mean Fault Duration	
Redlines : <inserted object=""></inserted>	
WAS : <inserted object=""></inserted>	
Section Number: 3.5.4.7.1.9	
IS800-1060 : Insertion after object IS800-1063	
Rationale: Bit definitions that map to the different terms	
111 = RESERVED	
110 = 1 x 10 ⁻⁹ /hours	
101 = 1 x 10 ⁻⁸ /hours	
100 = 1 x 10 ⁻⁷ /hours	
011 = 1 x 10 ⁻⁶ /hours	
010 = 1 x 10 ⁻⁵ /hours	
001 = 1 x 10 ⁻⁴ /hours	
000 = 1 x 10 ⁻³ /hours	
IS : The three bits are defined, in terms of 1/hour, as follows:	
Redlines : <inserted object=""></inserted>	
WAS : <inserted object=""></inserted>	
Section Number: 3.5.4.7.1.8.0-2	
IS800-1065 : Insertion after object IS800-1064	

IS800-1061: Insertion below object IS800-1060
Section Number : 3.5.4.7.1.9.0-1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS : Bits 53 through 55 of Subframe 3, Page 8 shall provide the assumed Mean Fault Duration (MFD) value for the ARAIM at the current time for the associated GNSS constellation.
Rationale: This parameter is used for the ARAIM algorithm to find an integrity solution
IS800-1062 : Insertion after object IS800-1061
Section Number : 3.5.4.7.1.9.0-2
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: The three bits allocated are defined as follows:
000 = 0.25 hours
001 = 0.50 hours
010 = 1.00 hours
011 = 1.50 hours
100 = 2.00 hours
101 = 4.00 hours
110 = 10.00 hours
111 = 24.00 hours
Rationale: Bit definitions that map to the different terms

IS800-1066 : Insertion after object IS800-1060	
Section Number : 3.5.4.7.1.10	
WAS: <inserted object=""></inserted>	
Redlines : <inserted object=""></inserted>	
IS : Object Heading : Service Level	
Rationale : Service Level Header	
IS800-1067 : Insertion below object IS800-1066	
Section Number: 3.5.4.7.1.10.0-1	
WAS: <inserted object=""></inserted>	
Redlines : <inserted object=""></inserted>	
IS : Bits 56 through 58 of Subframe 3, Page 8 shall provide the Service Level, as describe given page of the ISM data issue.	d in Table 3.5-10, applicable to a
Rationale: Parameter will help the user determine what type of ARAIM these parameters can be ARAIM).	pe used for (eg H-ARAIM or V-

1000 1000
IS800-1068 : Insertion after object IS800-1067
Section Number : 3.5.4.7.1.10.0-2
WAS : <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Three bits are allocated to the four service levels as follows:
000 = Level 1
001 = Level 2
010 = Level 3
011 = Level 4
100 to 111 = Reserved for future use
Rationale: Bit definitions that map to the specific Service Levels. There are Reserved Bits for a future type of level.
I S800-1069 : Insertion after object IS800-1068
Section Number: 3.5.4.7.1.10.0-3
3.5.4.7.1.10.0-3 WAS:
S.5.4.7.1.10.0-3 WAS: <inserted object=""> Redlines:</inserted>
S.5.4.7.1.10.0-3 WAS: <inserted object=""> Redlines: <inserted object=""> IS:</inserted></inserted>

IS800-1070:

Insertion after object IS800-1069

Section Number:

3.5.4.7.1.10.0-4

WAS:

<INSERTED OBJECT>

Redlines:

<INSERTED OBJECT>

IS:

Service Level	Severity	Description
Level 1	No Data Available	Service Level indicates that users may resort to the Performance Values for integrity solutions instead of the ISM. Users should not use ISM
Level 2	Non-Safety of Life Use (Minor)	Uncertified ARAIM
Level 3	Safety of Life Use (Major)	Service Level indicates that the user should only use these parameters for the applications requiring integrity less than or equivalent to H-ARAIM solutions.
Level 4	Safety of Life Use (Hazardous)	Service Level indicates that the user should only use these parameters for the applications requiring integrity less than or equivalent to V-ARAIM solutions.

Object Type : Table

Rationale:

Table gets more specific on each level. The last column is intended to give more guidance to the user on what to do for each level

IS800-1071: Insertion after object IS800-1066
Section Number : 3.5.4.7.1.11
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Object Heading: Satellite Mask
Rationale : Mask Header
IS800-1072 : Insertion below object IS800-1071
Section Number : 3.5.4.7.1.11.0-1
WAS: <inserted object=""></inserted>
Redlines : <inserted object=""></inserted>
IS: Bits 59 through 121 of Subframe 3, Page 8 shall provide the PRN inclusion mask. Refer to Table 3.5-11 for complete GNSS PRN mapping.
Rationale: Each bit of the Mask pertains to a single GNSS PRN. The table gets more specific.

IS800-1073 :
Insertion after object IS800-1072
Section Number :
3.5.4.7.1.11.0-2
WAS:
<inserted object=""></inserted>
Redlines :
<inserted object=""></inserted>
IS:
The applicability of each PRN is indicated by:
0 = Information in the current ISM does not apply to this PRN
1 = Information in the current ISM does apply to this PRN
Rationale:
Defining the difference between '0' and '1'.
IS800-1077 :
Insertion after object IS800-1073
Section Number :
3.5.4.7.1.11.0-3
WAS:
<inserted object=""></inserted>
Redlines :
<inserted object=""></inserted>
IS:
Table 3.5-11 PRN Mapping
Rationale:
Table Caption

IS800-1078:

Insertion after object IS800-1077

Section Number:

3.5.4.7.1.11.0-4

WAS:

<INSERTED OBJECT>

Redlines:

<INSERTED OBJECT>

IS:

59 SVID 1 Freq. 1 RCN 1 PRN 1 PRN 120 PRN 183 PRN ID-1 60 SVID 2 Freq. 2 RCN 2 PRN 2 PRN 121 PRN 184 PRN ID-2 61 SVID 3 Freq. 3 RCN 3 PRN 3 PRN 122 PRN 185 PRN ID-3 62 SVID 4 Freq. 4 RCN 4 PRN 4 PRN 123 PRN 186 PRN ID-4	Bits	Galileo	GLONASS	BeiDou	GPS	SBAS	QZSS	IRNSS
60	59	+					_	
61								
62 SVID 4 Freq. 4 RCN 4 PRN 4 PRN 123 PRN 186 PRN 1D-4 63 SVID 5 Freq. 6 RCN 6 PRN 6 PRN 124 PRN 187 PRN 10-6 64 SVID 6 Freq. 6 RCN 6 PRN 6 PRN 125 PRN 188 PRN 1D-6 65 SVID 7 Freq. 7 RCN 7 PRN 7 PRN 126 PRN 189 PRN 1D-7 66 SVID 8 Freq. 9 RCN 9 PRN 9 PRN 127 PRN 191 Reserved 67 SVID 10 Freq. 10 RCN 10 PRN 10 PRN 129 PRN 191 Reserved 68 SVID 10 Freq. 10 RCN 10 PRN 10 PRN 129 PRN 191 Reserved 69 SVID 11 Freq. 11 RCN 11 PRN 130 PRN 192 Reserved 70 SVID 13 Freq. 12 RCN 12 PRN 13 PRN 130 PRN 192 Reserved 71 SVID 13 Freq. 12 RCN 12 PRN 13 PRN 131 <	61	SVID 3		RCN 3	PRN 3	PRN 122	PRN 185	PRN ID-3
63 SVID 5	62							
64	63	SVID 5		RCN 5	PRN 5	PRN 124	PRN 187	PRN ID-5
65	64					PRN 125		PRN ID-6
66 SVID 8 Freq. 8 RCN 8 PRN 8 PRN 127 PRN 190 Reserved 67 SVID 9 Freq. 9 RCN 9 PRN 9 PRN 128 PRN 191 Reserved 68 SVID 10 Freq. 10 RCN 10 PRN 10 PRN 129 PRN 192 Reserved 69 SVID 11 Freq. 11 RCN 11 PRN 11 PRN 130 PRN 193 Reserved 70 SVID 13 Freq. 12 RCN 12 PRN 131 PRN 194 Reserved 71 SVID 13 Freq. 13 RCN 13 PRN 13 PRN 195 Reserved 72 SVID 14 Freq. 14 RCN 15 PRN 13 PRN 195 Reserved 73 SVID 15 Freq. 15 RCN 15 PRN 15 PRN 134 PRN 197 Reserved 74 SVID 16 Freq. 16 RCN 16 PRN 15 PRN 135 PRN 197 Reserved 75 SVID 17 Freq. 18 RCN 18 PRN 16 PRN 137 PRN 199 Reserved </td <td>65</td> <td>SVID 7</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>	65	SVID 7	•					
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93 SVID 35 Reserved RCN 35 PRN 35 PRN 154 Reserved Reserved 94 SVID 36 Reserved RCN 36 PRN 36 PRN 155 Reserved Reserved 95 Reserved Reserved RCN 37 PRN 37 PRN 156 Reserved Reserved 96 Reserved Reserved PRN 38 PRN 157 Reserved Reserved 97 Reserved Reserved Reserved PRN 39 PRN 158 Reserved Reserved 98 Reserved Reserved Reserved PRN 40 Reserved Reserved 99 Reserved Reserved Reserved PRN 41 Reserved Reserved 100 Reserved Reserved Reserved PRN 42 Reserved Reserved 101 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved 100 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved 101 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved	91	SVID 33	Reserved	RCN 33	PRN 33	PRN 152	Reserved	Reserved
93 SVID 35 Reserved RCN 35 PRN 35 PRN 154 Reserved Reserved 94 SVID 36 Reserved RCN 36 PRN 36 PRN 155 Reserved Reserved 95 Reserved Reserved RCN 37 PRN 37 PRN 156 Reserved Reserved 96 Reserved Reserved PRN 38 PRN 157 Reserved Reserved 97 Reserved Reserved Reserved PRN 39 PRN 158 Reserved Reserved 98 Reserved Reserved Reserved PRN 40 Reserved Reserved 99 Reserved Reserved Reserved PRN 41 Reserved Reserved 100 Reserved Reserved Reserved PRN 42 Reserved Reserved 101 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved 100 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved 101 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved	92	SVID 34		RCN 34	PRN 34	PRN 153		Reserved
95 Reserved Reserved RCN 37 PRN 37 PRN 156 Reserved Reserved 96 Reserved Reserved PRN 38 PRN 157 Reserved Reserved 97 Reserved Reserved PRN 39 PRN 158 Reserved Reserved 98 Reserved Reserved Reserved PRN 40 Reserved Reserved 99 Reserved Reserved Reserved PRN 41 Reserved Reserved Reserved 100 Reserved Reserved Reserved PRN 42 Reserved Reserved 101 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved 102 Reserved Reserved Reserved Reserved Reserved Reserved Reserved 103 Reserved	93		Reserved	RCN 35	PRN 35		Reserved	Reserved
95 Reserved Reserved RCN 37 PRN 37 PRN 156 Reserved Reserved 96 Reserved Reserved PRN 38 PRN 157 Reserved Reserved 97 Reserved Reserved PRN 39 PRN 158 Reserved Reserved 98 Reserved Reserved Reserved PRN 40 Reserved Reserved 99 Reserved Reserved Reserved PRN 41 Reserved Reserved Reserved 100 Reserved Reserved Reserved PRN 42 Reserved Reserved 101 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved 102 Reserved Reserved Reserved Reserved Reserved Reserved Reserved 103 Reserved	94	SVID 36	Reserved	RCN 36	PRN 36	PRN 155	Reserved	Reserved
97 Reserved Reserved Reserved PRN 39 PRN 158 Reserved Reserved 98 Reserved Reserved PRN 40 Reserved Reserved Reserved 99 Reserved Reserved Reserved PRN 41 Reserved Reserved Reserved 100 Reserved Reserved Reserved PRN 42 Reserved Reserved Reserved 101 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved	95	Reserved	Reserved	RCN 37		PRN 156	Reserved	Reserved
97 Reserved Reserved Reserved PRN 39 PRN 158 Reserved Reserved 98 Reserved Reserved PRN 40 Reserved Reserved Reserved 99 Reserved Reserved Reserved PRN 41 Reserved Reserved Reserved 100 Reserved Reserved Reserved PRN 42 Reserved Reserved Reserved 101 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved	96	Reserved	Reserved	Reserved	PRN 38	PRN 157	Reserved	Reserved
99ReservedReservedReservedPRN 41ReservedReservedReserved100ReservedReservedPRN 42ReservedReservedReserved101ReservedReservedPRN 43ReservedReservedReserved	97	Reserved	Reserved	Reserved	PRN 39		Reserved	Reserved
99ReservedReservedReservedPRN 41ReservedReservedReserved100ReservedReservedPRN 42ReservedReservedReserved101ReservedReservedPRN 43ReservedReservedReserved	98		Reserved		PRN 40	Reserved	Reserved	Reserved
100ReservedReservedReservedPRN 42ReservedReservedReservedReservedReservedReservedReservedReservedReservedReserved	99	Reserved	Reserved				Reserved	Reserved
101 Reserved Reserved Reserved PRN 43 Reserved Reserved Reserved	100							
	101							
		Reserved	Reserved	Reserved		Reserved	Reserved	Reserved

Reserved	Reserved	Reserved	PRN 45	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 46	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 47	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 48	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 49	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 50	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 51	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 52	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 53	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 54	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 55	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 56	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 57	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 58	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 59	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 60	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 61	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 62	Reserved	Reserved	Reserved
Reserved	Reserved	Reserved	PRN 63	Reserved	Reserved	Reserved
	Reserved	Reserved	Reserved	Reserved Reserved Reserved PRN 46 Reserved Reserved Reserved PRN 47 Reserved Reserved Reserved PRN 48 Reserved Reserved Reserved PRN 49 Reserved Reserved Reserved PRN 50 Reserved Reserved Reserved PRN 51 Reserved Reserved Reserved PRN 51 Reserved Reserved Reserved PRN 52 Reserved Reserved Reserved PRN 53 Reserved Reserved Reserved PRN 53 Reserved Reserved Reserved PRN 54 Reserved Reserved Reserved PRN 55 Reserved Reserved Reserved PRN 55 Reserved Reserved Reserved PRN 56 Reserved Reserved Reserved PRN 57 Reserved Reserved Reserved PRN 58 Reserved Reserved Reserved PRN 59 Reserved Reserved Reserved PRN 59 Reserved Reserved Reserved PRN 60 Reserved Reserved Reserved PRN 61 Reserved Reserved Reserved PRN 61 Reserved Reserved Reserved PRN 61 Reserved Reserved Reserved PRN 62	Reserved Reserved Reserved PRN 46 Reserved Reserved Reserved Reserved PRN 47 Reserved Reserved Reserved PRN 48 Reserved Reserved Reserved PRN 48 Reserved Reserved Reserved PRN 49 Reserved Reserved Reserved PRN 50 Reserved Reserved Reserved PRN 51 Reserved Reserved Reserved PRN 51 Reserved Reserved Reserved PRN 52 Reserved Reserved Reserved PRN 53 Reserved Reserved Reserved PRN 53 Reserved Reserved Reserved PRN 55 Reserved Reserved Reserved Reserved PRN 55 Reserved Reserved Reserved Reserved PRN 56 Reserved Reserved Reserved Reserved PRN 56 Reserved Reserved Reserved Reserved PRN 57 Reserved	Reserved Reserved Reserved PRN 46 Reserved Reser

SVID = Space Vehicle ID Freq. = Carrier Frequency Number RCN = Ranging Code Number PRN = Pseudorandom Noise Number

Object Type: Table

Rationale:

Added the table that specifically maps the Mask bits to individual SV IDs for different GNSS.

IS800-1079:

Insertion after object IS800-1078

Section Number:

3.5.4.7.1.12

WAS:

<INSERTED OBJECT>

Redlines:

<INSERTED OBJECT>

IS:

Object Heading: Integrity Support Message Cyclic Redundancy Check

Rationale:

Add Header for ISM CRC

IS800-1080:

Insertion after object IS800-1079

Section Number: 3.5.4.7.1.12.0-1

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<INSERTED OBJECT>

Redlines:

<INSERTED OBJECT>

IS:

Bits 219 through 250 of MT-40 are a 32-bit Cyclic Redundancy Check (CRC) specific to the ISM parameters. The ISM CRC will cover only the ISM parameters in Message Type 40, (Bits 15 to 218). Refer to GNSS-Based Precision Approach Local Area Augmentation System (LAAS) Signal-in-Space Interface Control Document for more details on the ISM CRC.

Rationale:

The ISM CRC is an added security measure to check the accuracy of the ISM data.

IS800-893:

Section Number:

6.1.0-1

WAS:

APC	-	antenna phase center
ASCII	-	American Standard Code for Information Interchange
ВСН	-	Bose, Chaudhuri, and Hocquenghem
BOC	-	Binary Offset Carrier
BPSK	-	Bi-Phase Shift Key
ССВ	-	Configuration Control Board
CDC	-	clock differential correction
CEI	-	Clock/Ephemeris/ Integrity
CNAV-2	-	L1C Navigation Message
CRC	-	Cyclic Redundancy Check
CS	-	Control Segment
dBc	-	Power ratio of a signal to a (unmodulated) carrier signal, expressed in decibels
DC	-	differential correction
DN	-	Day Number

ECT	ECEF	-	Earth-Centered, Earth-Fixed
EOE - Edge-of-Earth EOL - End-of-Life EOP - Earth Orientation Parameters FEC - Forward Error Correction GBAS - Ground Based Augmentation System GGTO - GPS-GNSS Time Offset GNSS - Global Navigation Satellite System GPS - Global Positioning System GPS - Global Positioning System GPS - Interface Control Contractor ICC - Interface Control Working Group IRN - Interface Revision Notice IS - Interface Specification ISC - Interface Specification ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	ECI	-	Earth-Centered, Inertial
EOL - End-of-Life EOP - Earth Orientation Parameters FEC - Forward Error Correction GBAS - Ground Based Augmentation System GGTO - GPS/GNSS Time Offset GNSS - Global Navigation Satellite System GPS - Global Positioning System GPSW - GPS Wing ICC - Interface Control Contractor ICWG - Interface Revision Notice IS - Interface Revision Notice IS - Interface Specification ISC - Interface Specification ISC - Interface Week LDPC - Low Density Parity Check LFSR - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common LI Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	EDC	-	ephemeris differential correction
EOP - Earth Orientation Parameters FEC - Forward Error Correction GBAS - Ground Based Augmentation System GGTO - GPS/GNSS Time Offset GNSS - Global Positioning System GPS - Global Positioning System GPSW - GPS Wing ICC - Interface Control Contractor ICWG - Interface Revision Notice IS - Interface Specification ISC - Interface Specification ISC - Interface Specification ISC - Interface Position Correction ITOW - Interface Specification ISC - Low Density Parity Check LFSR - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	EOE	-	Edge-of-Earth
FEC - Forward Error Correction GBAS - Ground Based Augmentation System GGTO - GPS/GNSS Time Offset GNSS - Global Navigation Satellite System GPS - Global Positioning System GPS - Global Positioning System GPS - GPS Wing ICC - Interface Control Contractor ICWG - Interface Control Working Group IRN - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Least Significant Bit LSF - Master Control Station MHz - Megahertz MSB - Most Significant Bit	EOL	-	End-of-Life
GBAS - Ground Based Augmentation System GGTO - GPS/GNSS Time Offset GNSS - Global Navigation Satellite System GPS - Global Positioning System GPS - Global Positioning System GPS - GPS Wing ICC - Interface Control Contractor ICWG - Interface Control Working Group IRN - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	EOP	-	Earth Orientation Parameters
GGTO - GPS/GNSS Time Offset GNSS - Global Navigation Satellite System GPS - Global Positioning System GPS - Global Positioning System GPS - GPS Wing ICC - Interface Control Contractor ICWG - Interface Control Working Group IRN - Interface Revision Notice IS - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	FEC	-	Forward Error Correction
GNSS - Global Navigation Satellite System GPS - Global Positioning System GPSW - GPS Wing ICC - Interface Control Contractor ICWG - Interface Control Working Group IRN - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	GBAS	-	Ground Based Augmentation System
GPS - Global Positioning System GPSW - GPS Wing ICC - Interface Control Contractor ICWG - Interface Control Working Group IRN - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	GGTO	-	GPS/GNSS Time Offset
GPSW - GPS Wing ICC - Interface Control Contractor ICWG - Interface Control Working Group IRN - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz MSB - Most Significant Bit	GNSS	-	Global Navigation Satellite System
ICC - Interface Control Contractor ICWG - Interface Control Working Group IRN - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	GPS	-	Global Positioning System
ICWG - Interface Control Working Group IRN - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	GPSW	-	GPS Wing
IRN - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	ICC	-	Interface Control Contractor
IS Interface Specification ISC Inter-Signal Correction ITOW Interval Time of Week LDPC Low Density Parity Check LFSR Linear Feedback Shift Register LNAV Legacy Navigation Message, D(t) LSB Least Significant Bit LSF Leap Seconds Future LIC Common L1 Signal MCS Master Control Station MHz Megahertz MSB Most Significant Bit Most Significant Bit	ICWG	-	Interface Control Working Group
ISC - Inter-Signal Correction ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	IRN	-	Interface Revision Notice
ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	IS	-	Interface Specification
LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	ISC	-	Inter-Signal Correction
LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	ITOW	-	Interval Time of Week
LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	LDPC	-	Low Density Parity Check
LSB - Least Significant Bit LSF - Leap Seconds Future L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	LFSR	-	Linear Feedback Shift Register
LSF - Leap Seconds Future L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	LNAV	-	Legacy Navigation Message, D(t)
L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	LSB	-	Least Significant Bit
MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit	LSF	-	Leap Seconds Future
MHz - Megahertz MSB - Most Significant Bit	L1C	-	Common L1 Signal
MSB - Most Significant Bit	MCS	-	Master Control Station
	MHz	-	Megahertz
NAV - Navigation	MSB	-	Most Significant Bit
	NAV	-	Navigation

NSCD	-	non-standard L1C _D
NSCP	-	non-standard L1C _P
PIRN	-	Proposed Interface Revision Notice
PRN	-	Pseudo-Random Noise
RF	-	Radio Frequency
RHCP	-	Right-Hand Circularly Polarized
RMS	-	Root Mean Square
SBAS	-	Satellite Based Augmentation System
sps	-	symbols per second
SS	-	Space Segment
SSV	-	Space Service Volume
SV	-	Space Vehicle
TBD	-	To Be Determined
TBR	-	To Be Resolved
TBS	-	To Be Supplied
TMBOC	-	Time-Multiplexed BOC
TOI	-	Time of Interval
TOW	-	Time of Week
UDRA	-	User Differential Range Accuracy
UE	-	User Equipment
URA	-	User Range Accuracy
US	-	User Segment
USNO	-	U.S. Naval Observatory
UTC	-	Coordinated Universal Time
WGS 84	-	World Geodetic System 1984

Redlines :

APC	-	antenna phase center
ARAIM	Ξ	Advanced Receiver Autonomous Integrity Monitoring
ASCII	-	American Standard Code for Information Interchange
ВСН	-	Bose, Chaudhuri, and Hocquenghem
BOC	-	Binary Offset Carrier
BPSK	-	Bi-Phase Shift Key
ССВ	-	Configuration Control Board
CDC	-	clock differential correction
CEI	-	Clock/Ephemeris/ Integrity
CNAV-2	-	L1C Navigation Message
CRC	-	Cyclic Redundancy Check
CS	-	Control Segment
dBc	-	Power ratio of a signal to a (unmodulated) carrier signal, expressed in decibels
DC	-	differential correction
DN	-	Day Number
ECEF	-	Earth-Centered, Earth-Fixed
ECI	-	Earth-Centered, Inertial
EDC	-	ephemeris differential correction
EOE	-	Edge-of-Earth
EOL	-	End-of-Life
EOP	-	Earth Orientation Parameters
FEC	-	Forward Error Correction
GBAS	-	Ground Based Augmentation System
GGTO	-	GPS/GNSS Time Offset
GNSS	-	Global Navigation Satellite System
GPS	-	Global Positioning System

GPSW	-	GPS Wing
ICC	-	Interface Control Contractor
ICWG	-	Interface Control Working Group
IRN	-	Interface Revision Notice
IS	-	Interface Specification
ISC	-	Inter-Signal Correction
<u>ISM</u>	=	Integrity Support Message
ITOW	-	Interval Time of Week
LDPC	-	Low Density Parity Check
LFSR	-	Linear Feedback Shift Register
LNAV	-	Legacy Navigation Message, D(t)
LSB	-	Least Significant Bit
LSF	-	Leap Seconds Future
L1C	-	Common L1 Signal
MCS	-	Master Control Station
MHz	-	Megahertz
MSB	-	Most Significant Bit
<u>MSO</u>	=	Military Standing Order
NAV	-	Navigation
NSCD	-	non-standard L1C _D
NSCP	-	non-standard L1C _P
PIRN	-	Proposed Interface Revision Notice
PRN	-	Pseudo-Random Noise
RAIM	=	Receiver Autonomous Integrity Monitoring
RF	-	Radio Frequency
RHCP	-	Right-Hand Circularly Polarized
RMS	-	Root Mean Square
SBAS	-	Satellite Based Augmentation System

sps	-	symbols per second
SS	-	Space Segment
SSV	-	Space Service Volume
SV	-	Space Vehicle
TBD	-	To Be Determined
TBR	-	To Be Resolved
TBS	-	To Be Supplied
TMBOC	-	Time-Multiplexed BOC
TOI	-	Time of Interval
TOW	-	Time of Week
TSO	=	Technical Standing Order
UDRA	-	User Differential Range Accuracy
UE	-	User Equipment
URA	-	User Range Accuracy
US	-	User Segment
USNO	-	U.S. Naval Observatory
UTC	-	Coordinated Universal Time
WGS 84	-	World Geodetic System 1984

APC	-	antenna phase center
ARAIM	-	Advanced Receiver Autonomous Integrity Monitoring
ASCII	-	American Standard Code for Information Interchange
ВСН	-	Bose, Chaudhuri, and Hocquenghem
BOC	-	Binary Offset Carrier
BPSK	-	Bi-Phase Shift Key
ССВ	-	Configuration Control Board
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CNAV-2	-	L1C Navigation Message
CRC	-	Cyclic Redundancy Check
CS	-	Control Segment
dBc	-	Power ratio of a signal to a (unmodulated) carrier signal, expressed in decibels
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DN	-	Day Number
ECEF	-	Earth-Centered, Earth-Fixed
ECI	-	Earth-Centered, Inertial
EDC	-	ephemeris differential correction
EOE	-	Edge-of-Earth
EOL	-	End-of-Life
EOP	-	Earth Orientation Parameters
FEC	-	Forward Error Correction
GBAS	-	Ground Based Augmentation System
GGTO	-	GPS/GNSS Time Offset
GNSS	-	Global Navigation Satellite System
GPS	-	Global Positioning System

Interface Control Contractor Interface Control Working Group	GPSW	-	GPS Wing
IRN - Interface Revision Notice IS - Interface Specification ISC - Inter-Signal Correction ISM - Integrity Support Message ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1Cp NSCP - non-standard L1Cp PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RMS - Root Mean Square	ICC	-	Interface Control Contractor
ISC - Inter-Signal Correction ISC - Inter-Signal Correction ISM - Integrity Support Message ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - Navigation NSCD - non-standard L1Cp PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	ICWG	-	Interface Control Working Group
ISC - Inter-Signal Correction ISM - Integrity Support Message ITOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _D PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	IRN	-	Interface Revision Notice
ISM - Integrity Support Message TOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	IS	-	Interface Specification
TOW - Interval Time of Week LDPC - Low Density Parity Check LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	ISC	-	Inter-Signal Correction
LOPC	ISM	-	Integrity Support Message
LFSR - Linear Feedback Shift Register LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1Cp NSCP - non-standard L1Cp PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RMS - Root Mean Square	ITOW	-	Interval Time of Week
LNAV - Legacy Navigation Message, D(t) LSB - Least Significant Bit LSF - Leap Seconds Future L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _D NSCP - proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	LDPC	-	Low Density Parity Check
Least Significant Bit	LFSR	-	Linear Feedback Shift Register
LSF - Leap Seconds Future L1C - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	LNAV	-	Legacy Navigation Message, D(t)
LIC - Common L1 Signal MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Millitary Standing Order NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	LSB	-	Least Significant Bit
MCS - Master Control Station MHz - Megahertz MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1Cp NSCP - non-standard L1Cp PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	LSF	-	Leap Seconds Future
MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	L1C	-	Common L1 Signal
MSB - Most Significant Bit MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	MCS	-	Master Control Station
MSO - Military Standing Order NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	MHz	-	Megahertz
NAV - Navigation NSCD - non-standard L1C _D NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	MSB	-	Most Significant Bit
NSCD - non-standard L1C _D NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	MSO	-	Military Standing Order
NSCP - non-standard L1C _P PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	NAV	-	Navigation
PIRN - Proposed Interface Revision Notice PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	NSCD	-	non-standard L1C _D
PRN - Pseudo-Random Noise RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	NSCP	-	non-standard L1C _P
RAIM - Receiver Autonomous Integrity Monitoring RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	PIRN	-	Proposed Interface Revision Notice
RF - Radio Frequency RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	PRN	-	Pseudo-Random Noise
RHCP - Right-Hand Circularly Polarized RMS - Root Mean Square	RAIM	-	Receiver Autonomous Integrity Monitoring
RMS - Root Mean Square	RF	-	Radio Frequency
·	RHCP	-	Right-Hand Circularly Polarized
SBAS - Satellite Based Augmentation System	RMS	-	Root Mean Square
	SBAS	-	Satellite Based Augmentation System

-	symbols per second
-	Space Segment
-	Space Service Volume
-	Space Vehicle
-	To Be Determined
-	To Be Resolved
-	To Be Supplied
-	Time-Multiplexed BOC
-	Time of Interval
-	Time of Week
-	Technical Standing Order
-	User Differential Range Accuracy
-	User Equipment
-	User Range Accuracy
-	User Segment
-	U.S. Naval Observatory
-	Coordinated Universal Time
-	World Geodetic System 1984

Rationale:

 $\label{eq:Adding RAIM, ARAIM, MSO, TSO, and ISM to the abbreviation list. \\$