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INTERFACE SPECIFICATION			
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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	TITLE: IS-GPS-800 RevJ IRN003 (09 January 2024) Navstar GPS Space Segment/User Segment L1C Interfaces		
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REVISION RECORD

REVISION	DESCRIPTION	DOC DATE	APPROVED
-	Initial Release	N/A	N/A

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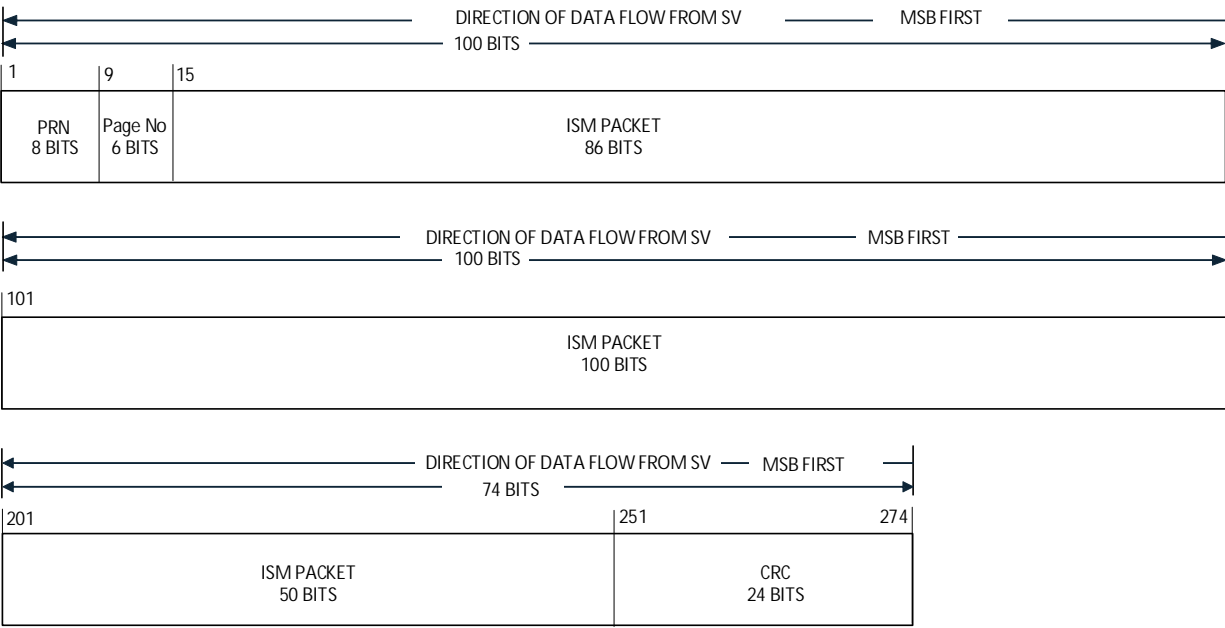
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DOORS ID	IS-GPS-800	Object Type
IS800-142	3.5.2 Subframe 1	Header
IS800-1030	 <p>DIRECTION OF DATA FLOW FROM SV — MSB FIRST —</p> <p>100 BITS</p> <p>1 9 15</p> <p>PRN 8 BITS Page No 6 BITS ISM PACKET 86 BITS</p> <p>DIRECTION OF DATA FLOW FROM SV — MSB FIRST —</p> <p>100 BITS</p> <p>101</p> <p>ISM PACKET 100 BITS</p> <p>DIRECTION OF DATA FLOW FROM SV — MSB FIRST —</p> <p>74 BITS</p> <p>201 251 274</p> <p>ISM PACKET 50 BITS CRC 24 BITS</p> <p>Note: Broadcast sequence of subframe 3 is a variable and, as such users must not expect a fixed pattern of page sequence.</p>	Figure
IS800-1031	Figure 3.5-8a Subframe 3, Page 8, Integrity Support Message	Figure Caption
	⋮	
IS800-210	3.5.3.10 Integrity Assurance	Header
IS800-211	The LIC message will contain information that allows users to operate when integrity is assured. This is accomplished using an integrity assured URA value in conjunction with an Integrity Status Flag (ISF). The IAURA value is the RSS of URA _{ED} and URA _{NED} ; IAURA is integrity assured to the enhanced level only when the ISF is “1”.	Info-Only
	⋮	

DOORS ID	IS-GPS-800	Object Type
IS800-1032	3.5.4.7 Subframe 3, Page 8- Integrity Support Message (ISM)	Header
IS800-1035	Subframe 3, Page 8, as depicted in Figure 3.5-8a, shall contain the parameters related to GNSS constellation and satellite integrity parameters used for ARAIM algorithms.	Requirement
IS800-1036	The ISM specific parameters and fields are contained in the ISM Packet (reference 30.3.3.10 of IS-GPS-200) whose structure is shown in Figure 30-7 of IS-GPS-200. Users who implement Advanced Receiver Autonomous Integrity Monitoring (ARAIM), may use these parameters for the ARAIM algorithm as referenced in future TSO and MSO.	Info-Only
IS800-1181	3.5.4.7.1 Use of GPS ISM Data	Header
IS800-1182	To calculate the nominal pseudorange error bias (b_{nom}), see 30.3.3.10.2 of IS-GPS-200.	Requirement
IS800-1184	Where IAURA in that formula is described in sections 3.5.3.10, 3.5.3.5, 3.5.3.8, and 6.2.1.	Info-Only
	⋮	
IS800-296	6.2.1 User Range Accuracy	Header
IS800-297	User Range Accuracy (URA) is a statistical indicator of the GPS ranging accuracy obtainable with a specific signal and SV. URA provides a conservative RMS estimate of the user range error (URE) in the associated navigation data for the transmitting SV. It includes all errors for which the Space and Control Segments are responsible. Whether the integrity status flag is 'off' or 'on', 4.42 times URA bounds the instantaneous URE under all conditions with 1-(1e-5) per hour probability ('legacy' level of integrity assurance). When the integrity status flag is 'on', 5.73 times URA bounds the instantaneous URE under all conditions with 1-(1e-8) per hour probability ('enhanced' level of integrity assurance). Integrity properties of the URA are specified with respect to the scaled (multiplied by either 4.42 or 5.73 as appropriate) upper bound value of the URA index or to the scaled composite of the upper bound values of all component URA indexes.	Info-Only
IS800-1185	The composite integrity assured URA (IAURA) value is the RSS of an elevation-dependent function of the upper bound value of the URA_{ED} component and the upper bound value of the URA_{NED} component.	Info-Only