

CHANGE NOTICE

Affected Document: IS-GPS-800 Rev F	IRN/SCN Number IRN-IS-800F-004	Date: 10-DEC-2019
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Authority: RFC-00403	Proposed Change Notice PCN-IS-800F_RFC403	Date: 18-OCT-2019
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CLASSIFIED BY: N/A
DECLASSIFY ON: N/A

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

RFC Title: Health Bit Clarification

Reason For Change (Driver):

The CNAV (L2C and L5) & CNAV-2 (L1C) health summary bits for L1, L2, and L5 are not clearly defined and can be interpreted in multiple ways. There are only 3 bits available to summarize multiple codes and data, so more information is needed to determine the health of each signal.

(Pre-RFC-788)

Note: Topic was previously introduced in RFC-374 (2018 Public Document Changes)

Description of Change:

1. Specify that the L1, L2, and L5 health summary bits apply to the codes and data on the carriers as described in the Signal-in-Space (SIS) documents. Requires fix to message types.
2. Clarify that the health bit indication will be given relative to the capabilities of the SV as designated by the SV Configuration code.
3. Provide a new section to provide guidance to users on how to interpret the various health indicators in SIS documents.
4. Provide SV Configuration on CNAV-2 (L1C) for users

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AUTHORIZED SIGNATURES	REPRESENTING	DATE
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CODE IDENT 66RP1

IS800-1029 :

Insertion after object IS800-944

Figure 3.5-7. Subframe 3, Page 6 - Text

Section Number :

3.5.2.0-17

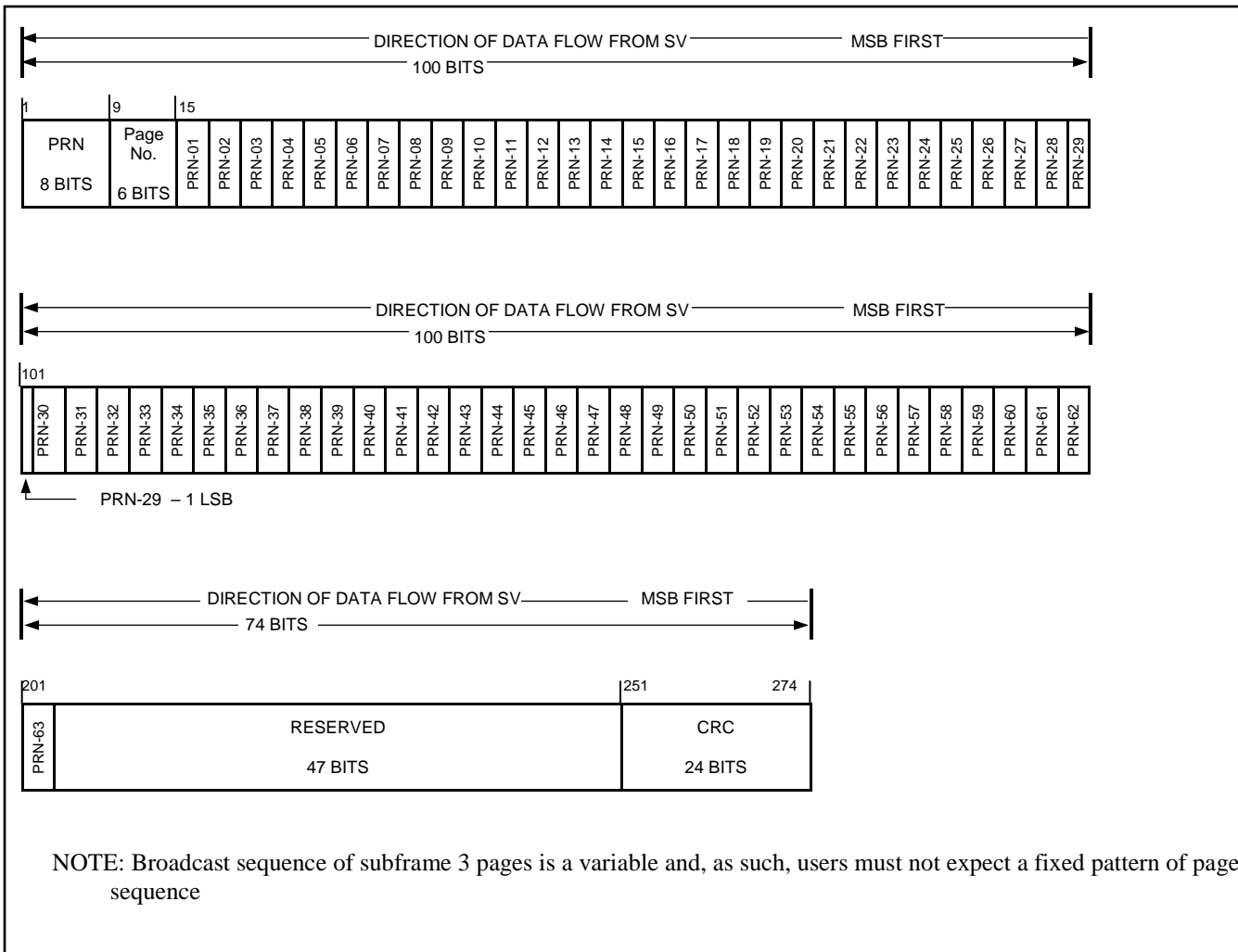
WAS :

N/A

Redlines :

<INSERTED OBJECT>

IS :



IS800-371 :

Section Number :

3.5.2.0-18

WAS :

Figure 3.5-8. Subframe 3, Page 7 - (Reserved)

Redlines :

Figure 3.5-8 Subframe3, Page 7 – ~~(Reserved)~~[SV Configuration](#)

IS :

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

IS800-283 :

Section Number :

3.5.4.6

WAS :

Subframe 3, Page 7 - (Reserved)

Redlines :

Subframe 3, Page 7 - ~~(Reserved)~~[SV Configuration](#)

IS :

Subframe 3, Page 7 - SV Configuration

IS800-284 :

Section Number :

3.5.4.6.0-1

WAS :

(Reserved)

IS :

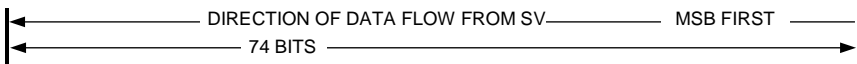


1	9	15	PRN-01	PRN-02	PRN-03	PRN-04	PRN-05	PRN-06	PRN-07	PRN-08	PRN-09	PRN-10	PRN-11	PRN-12	PRN-13	PRN-14	PRN-15	PRN-16	PRN-17	PRN-18	PRN-19	PRN-20	PRN-21	PRN-22	PRN-23	PRN-24	PRN-25	PRN-26	PRN-27	PRN-28	PRN-29
PRN 8 BITS			Page No. 6 BITS																												



101	PRN-30	PRN-31	PRN-32	PRN-33	PRN-34	PRN-35	PRN-36	PRN-37	PRN-38	PRN-39	PRN-40	PRN-41	PRN-42	PRN-43	PRN-44	PRN-45	PRN-46	PRN-47	PRN-48	PRN-49	PRN-50	PRN-51	PRN-52	PRN-53	PRN-54	PRN-55	PRN-56	PRN-57	PRN-58	PRN-59	PRN-60	PRN-61	PRN-62
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PRN-29 – 1 LSB



201	251	274
PRN-63	RESERVED 47 BITS	CRC 24 BITS

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

IS800-1021 :

Insertion after object IS800-284

Section Number :

3.5.4.6.0-2

WAS :

N/A

Redlines :

<INSERTED OBJECT>

IS :

Figure 3.5-11. Subframe 3, Page 7 - SV Configuration

IS800-1022 :

Insertion after object IS800-1021

Section Number :

3.5.4.6.0-3

WAS :

N/A

Redlines :

<INSERTED OBJECT>

IS :

Subframe 3, page 7, as depicted in Figure 3.5-11, contains a three-bit long term for each of up to 63 SVs to indicate the configuration code of each SV.

IS800-1023 :

Insertion after object IS800-1022

Section Number :

3.5.4.6.0-4

WAS :

N/A

Redlines :

<INSERTED OBJECT>

IS :

The 63 three-bit-long terms shall indicate the configuration of each SV using the codes as defined in paragraph 20.3.3.5.1.4 of IS-GPS-200.
