

PROPOSED INTERFACE REVISION NOTICE (PIRN)

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Affected ICD/IS:
IS-GPS-200 Rev H

PIRN Number:
PIRN-IS-200H-006

Authority:
RFC-00349

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CLASSIFIED BY: N/A

DECLASSIFY ON: NA

Document Title: *NAVSTAR GPS Space Segment/Navigation User Interfaces*

Reason For Change (Driver):

Some ambiguous, insufficient, or missing editorial or administrative information exist within the descriptive texts, phrases, and/or references in the public documents.

Description of Change:

Modify public documents to clarify some ambiguous, insufficient, or missing editorial or administrative information to enhance the public document quality (clear and concise communication) as suggested by Public Interface Control Working Group (ICWG) participants, stakeholders, and key members

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Checked By: Amit Patel

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IS200-1650 :

Insertion after object IS200-236

Section Number :

6.3.8

WAS :

N/A

Redlines :

[P-Code Verification Material](#)

IS :

P-Code Verification Material

Rationale :

At the August 2014 public ICWG regarding the public signal interface specifications, there was a suggestion to rewrite the description of the P-code generator contained in the IS-GPS-200. That led to a side meeting on the topic during the September ION GNSS+2014 meeting in Tampa. The consensus from that gathering was that there might be some useful clarifications that could be made, but a major re-write was not supported. Many in industry have produced working P-code generators with no additional information. Therefore, the information provided is sufficient for a successful implementation. However, additional verification information would make confirmation of correct implementations far more straightforward. We recommend adding longer samples of P-code at both the beginning and end of the week. In the case of the end of the week, the samples should be sufficiently long that the final state transitions of all shift registers are covered for all PRNs. This approach avoids any appearance of direction regarding implementation of the P-code process while providing a developer with sufficient example material to confirm their implementation. (APPLIED RESEARCH LABORATORIES INTEROFFICE MEMORANDUM by Mr. Brent Renfro, University of Texas)

IS200-1651 :

Insertion below object IS200-1650

Section Number :

6.3.8.1

WAS :

N/A

Redlines :

[Table 6-III and Table 6-IV provide samples of the P-code that may be used as part of the verification of specific implementations of the P-code. Table 6-III provides the first 256 chips of the P-code for selected PRNs. Table 6-IV provides the last 1024 P-code chips of the week for selected PRNs.](#)

IS :

Table 6-III and Table 6-IV provide samples of the P-code that may be used as part of the verification of specific implementations of the P-code. Table 6-III provides the first 256 chips of the P-code for selected PRNs. Table 6-IV provides the last 1024 P-code chips of the week for selected PRNs.

Rationale :

At the August 2014 public ICWG regarding the public signal interface specifications, there was a suggestion to rewrite the description of the P-code generator contained in the IS-GPS-200. That led to a side meeting on the topic during the September ION GNSS+2014 meeting in Tampa. The consensus from that gathering was that there might be some useful clarifications that could be made, but a major re-write was not supported. Many in industry have produced working P-code generators with no additional information. Therefore, the information provided is sufficient for a successful implementation. However, additional verification information would make confirmation of correct implementations far more straightforward. We recommend adding longer samples of P-code at both the beginning and end of the week. In the case of the end of the week, the samples should be sufficiently long that the final state transitions of all shift registers are covered for all PRNs. This approach avoids any appearance of direction regarding implementation of the P-code process while providing a developer with sufficient example material to confirm their implementation.

IS200-1652 :

Insertion below object IS200-1651

Section Number :

6.3.8.1.1

WAS :

N/A

Redlines :

[Table 6-III. First 256 P-code Chips of the Week for Selected Code Phase Assignments](#)

IS :

Table 6-III. First 256 P-code Chips of the Week for Selected Code Phase Assignments

Rationale :

Per RFC-349: Proposed P-Code Clarifications to IS-GPS-200 . The material used in this proposal was derived at ARL:UT using two different P-code implementations. One implementation is the P-code generator contained in the open-source GPS Toolkit (GPSTk). The second implementation is the P-code generator that is part of the ARL:UT High-Rate Tracking Receiver (HRTR). All results presented were generated using both algorithms and cross-compared.

IS200-1653 :

Insertion after object IS200-1652

Section Number :

6.3.8.1.2

WAS :

N/A

Redlines :

PRN Signal No.	P-code Relative Advance (Hours)*	P-Code, Left-to-right from beginning of GPS Week (hexadecimal)
001	$P_1(t)$	924110552BD74E7FC62D21CD7F83B3F9A4CC77E4C4A5DF081E90B 013D5D49F81
002	$P_2(t)$	800D9D1EB5EF85CA7B25290C95BF1C92131D6DB1793B8630F4D8D 69D8D1C481B
037	$P_{37}(t)$	8E3619D83E3F4C3E3E9FD99E5ECB86BC956F1726C018501EC071B 2054E630122
038	$P_1(t+24)$	6FBA7C64D4EE0839FF5EB0B376D8B5A1BCBDDDCF191940183BFE3 6A24FE6DE4B
074	$P_{37}(t+24)$	2A7CBF6621E0FAFD216C4DFA3D5CBFAB75FAA743419F4ABC7DAA7 BF44C35E949
075	$P_1(t+48)$	3DECDF76407FFF921FA4515FAF512A586C2530BA5633B04C2F8CA 38CFFBE7562
111	$P_{37}(t+48)$	AB1BE13E44C590CC08255280835311B5B8623EBCDC96C46B2958D 4F10D72C01B
112	$P_1(t+72)$	DEAB62046E05324EAD7498317CA46457BE5F06BC689EA4207AD66 250BA3A9F35
148	$P_{37}(t+72)$	0CA62C7F9AF1EB1B2AC2FE5D487E1D23555D6A5C21B1670B4AB20 5B7C8276C06
149	$P_1(t+96)$	555CE90F7396574DF1632E26F61B55C70612A415035DE606C04BE 275F5AD9320
185	$P_{37}(t+96)$	29C54899D24E93AB9B1BC80D7DBF66422DF699452A35BD21DC0E3 195A38EB404
186	$P_1(t+120)$	237775707E0FDBE2308A496DA3886DC4E15B41B0CD214F6E29812 ABCCFB618E8
210	$P_{25}(t+120)$	2735B1757E9494E7183A6A6C9B335824A2B9EBE2E4947C07C21EB D9CDB7A5E18

* $P_i(t+N)$: P-code sequence of PRN number i shifted by N hours. See Sections 3.3.2.1, 6.3.6.2.1.

IS :

PRN Signal No.	P-code Relative Advance (Hours)*	P-Code, Left-to-right from beginning of GPS Week (hexadecimal)
001	$P_1(t)$	924110552BD74E7FC62D21CD7F83B3F9A4CC77E4C4A5DF081E90B013D5D49F81
002	$P_2(t)$	800D9D1EB5EF85CA7B25290C95BF1C92131D6DB1793B8630F4D8D69D8D1C481B
037	$P_{37}(t)$	8E3619D83E3F4C3E3E9FD99E5ECB86BC956F1726C018501EC071B2054E630122
038	$P_1(t+24)$	6FBA7C64D4EE0839FF5EB0B376D8B5A1BCBDDDCF191940183BFE36A24FE6DE4B
074	$P_{37}(t+24)$	2A7CBF6621E0FAFD216C4DFA3D5CBFAB75FAA743419F4ABC7DAA7BF44C35E949
075	$P_1(t+48)$	3DECDF76407FFF921FA4515FAF512A586C2530BA5633B04C2F8CA38CFFBE7562
111	$P_{37}(t+48)$	AB1BE13E44C590CC08255280835311B5B8623EBCDC96C46B2958D4F10D72C01B
112	$P_1(t+72)$	DEAB62046E05324EAD7498317CA46457BE5F06BC689EA4207AD66250BA3A9F35
148	$P_{37}(t+72)$	0CA62C7F9AF1EB1B2AC2FE5D487E1D23555D6A5C21B1670B4AB205B7C8276C06
149	$P_1(t+96)$	555CE90F7396574DF1632E26F61B55C70612A415035DE606C04BE275F5AD9320
185	$P_{37}(t+96)$	29C54899D24E93AB9B1BC80D7DBF66422DF699452A35BD21DC0E3195A38EB404
186	$P_1(t+120)$	237775707E0FDBE2308A496DA3886DC4E15B41B0CD214F6E29812ABCCFB618E8
210	$P_{25}(t+120)$	2735B1757E9494E7183A6A6C9B335824A2B9EBE2E4947C07C21EBD9CDB7A5E18

* $P_i(t+N)$: P-code sequence of PRN number i shifted by N hours. See Sections 3.3.2.1, 6.3.6.2.1.

Rationale :

Per RFC-349: Proposed P-Code Clarifications to IS-GPS-200. We recommend adding longer samples of P-code at both the beginning and end of the week. In the case of the end of the week, the samples should be sufficiently long that the final state transitions of all shift registers are covered for all PRNs. This approach avoids any appearance of direction regarding implementation of the P-code process while providing a developer with sufficient example material to confirm their implementation.

The material used in this proposal was derived at ARL:UT using two different P-code implementations. One implementation is the P-code generator contained in the open-source GPS Toolkit (GPSTk). The second implementation is the P-code generator that is part of the ARL:UT High-Rate Tracking Receiver (HRTR). All results presented were generated using both algorithms and cross-compared.

IS200-1654 :

Insertion after object IS200-1653

Section Number :

6.3.8.1.3

WAS :

N/A

Redlines :

[Table 6-IV. Last 1024 P-code Chips of the Week for Selected Code Phase Assignments](#)

IS :

Table 6-IV. Last 1024 P-code Chips of the Week for Selected Code Phase Assignments

Rationale :

Per RFC-349: Proposed P-Code Clarifications to IS-GPS-200. We recommend adding longer samples of P-code at both the beginning and end of the week. In the case of the end of the week, the samples should be sufficiently long that the final state transitions of all shift registers are covered for all PRNs. This approach avoids any appearance of direction regarding implementation of the P-code process while providing a developer with sufficient example material to confirm their implementation.

The material used in this proposal was derived at ARL:UT using two different P-code implementations. One implementation is the P-code generator contained in the open-source GPS Toolkit (GPSTk). The second implementation is the P-code generator that is part of the ARL:UT High-Rate Tracking Receiver (HRTR). All results presented were generated using both algorithms and cross-compared.

IS200-1655 :

Insertion after object IS200-1654

Section Number :

6.3.8.1.4

WAS :

N/A

Redlines :

PRN Signal No.	P-code Relative Advance (Hours)*	P-Code, Left-to-right to last chip of GPS Week (hexadecimal)
001	$P_1(t)$	66297E28E08F71E0F95A694BC576072D32930112D3749C4738D09 6135E156848B7BC7B4D4FDFB8A7CBEC83ECEFF009DDB09DC1E55A9 69FC2BCD922D0C404A979D34BE6976E7889E6244C51F83854C7BD 5CFF3F915FA8C4BD6B42685D59BE159FF5DCB7CA9AF42AB85A425 8AB66D8F25593C8536E73686DAF8173783FBAA32E3E1
002	$P_2(t)$	D3165186CF86CFA0F95A694BC576072D32930112D3749C4738D09 6135E156848B7BC7B4D4FDFB8A7CBEC83ECEFF009DDB09DC1E55A9 69FC2BCD922D0C404A979D34BE6976E7889E6244C51F83854C7BD 5CFF3F915FA8C4BD6B42685D59BE159FF5DCB7CA9AF42AB85A425 8AB66D8F25593C8536E73686DAF8173783FBAA32E3E1
037	$P_{37}(t)$	96778423671CF933BA057BF3C576072D32930112D3749C4738D09 6135E156848B7BC7B4D4FDFB8A7CBEC83ECEFF009DDB09DC1E55A9 69FC2BCD922D0C404A979D34BE6976E7889E6244C51F83854C7BD 5CFF3F915FA8C4BD6B42685D59BE159FF5DCB7CA9AF42AB85A425 8AB66D8F25593C8536E73686DAF8173783FBAA32E3E1
038	$P_1(t+24)$	F7A4CB846B98ACD06BDD33AFE1DC3C0B35EA2A250E0DC70D959CE 3DBA19FB64E2441EB9B2EC5D473EF667E8258AA18DADE37D1A092 076F84E33B7DA1748635BEAA94B1DF852CCA25154CB00C34F5D32 661F4B5DDCB25FC1C70BD246E4FD531D565624F8FDB3B13C9F943 7BA9776B57BCC096E22EC56D2FD11D4C4D61EE988800
074	$P_{37}(t+24)$	C2B55E4A0E04226972B40620CC5E728370D9A2A0B3030EF445070 3A7F4C1AF143844D6AD26E061AAADFD2521AD48320DE2A6B605B4 1740D49E24C436B2A00297E7F2A354DE6A33E8D2EF5AC7F054E12 D34E8639AC06C3F1A373C1EA937A8E3E4E0883A2B0CC838B7C362 1132A8594A48CD2B71C96947E7B488093CA93A955F08
075	$P_1(t+48)$	F4FE4A61E668669524717749357D2AC58411FC6A54F18FFC9EC51 DB121ED2F6E4ECB856F4FA534D84E6E5BF20296241C7157CBD443 7C4D829D5510517CF42AD5D431B302EB207D4616C3C0F831652B3 A8935F7DFA517ECADDEACC78AC02DE1EF8419D3483DF897C15C8B 56805CC6750CC1BEA98A0DBEC9E66EB98A69F8ED6D86
111	$P_{37}(t+48)$	D9352A5F9E318A772A6B0A8498A4B6CD1D93B3CC581CB390B0A8C 728E47430F29043FF3F2048C745EBEB2B2B1758B05AE70575C9DE E14173D3337616D546E448E77582A2698063C5040F91B1C06C162 274B16C1B0EE02B3A11DF3FA22D49FDDAA877B728A2DF817BBD0E 29722205C89A5F91A3E26955630EC48402CA4DAA0378
112	$P_1(t+72)$	2DFE2345638E31C27B7CC27EEF9FF9DC383E98505F5EC50C1F741 805A821A451998BDCAFB8094C2589F283AF1C9056CA796083A50C F95CB6A5340DDFE9E82C71C2C5A390DC0C8FF6795B3DB8B733E2B 991F8B484A3528B8F89BD695404DA2817602828C468E014C72441 33F61EC113D121F848671DB0332B578D2EF38331B99B
148	$P_{37}(t+72)$	D623879A83A18CE562356FF1ED546D9E603D9EFDC3DE45D310123 387EC6F20A9D8DF378CDD3CC2D9E491ECA4CB217DDF36E512E4BE 6235F4C7CB270596C0F5900E2442C828EF22CC277D5E9AC69599F

		67CD400833F6CFF0FA1BB69D00838E7374438CBB72C9C9EC3785F A14245896ECD3BB1D58FB7510D101584ED669E394931
149	$P_1(t+96)$	FA28476F17FCF42B2DD127DCFE42250039E03183B21EBFB83544E 922469EC9824641BE138193A95EE51A1E57C598C3813FD19805E2 676E5D997DC13C358246B521F8FA9D17865FA6B02AD9D1D5D5E46 B725D51A52DC20CD3ADA5013E419249B48DC6FCF8933919F24DA4 FB3F56BB4154E0BFD5C2300DB9B0040D0F41D507F7FF
185	$P_{37}(t+96)$	5FFAD9744EDCEAA7C57243AF783EB3C44120433003C3AF4E2EC63 42CAECC2FBBA634C151E0C064F2270842F37DEFF400BB759BB00A 09244EC922C42B2504695E33E2E46466DCF75CFBC5F39FCA0287B 0EAF60EE1156A15DB95261A5CA7961B1E06C4DAD12427380B7E2 319113173241AF3670A7EB4574CA475F35CF2B014B2A
186	$P_1(t+120)$	B279A52DA308C52BDDF13565B40C1FEDF33A0E623C55734B7C8F1 79B9B50E5421F1C8024B8BDEB14079643AB41153FA0E5660ADF78 F527584899F4CCB03B47E4AB9214BEECEBCF5CF051A5FA049D105 D03D945B9085A58C583A392E7CA1FA6B5FF5FF0BB436CAE9C1FD4 4B0124E42332A03A54AE23A23A82223DB0B43C9BE049
210	$P_{25}(t+120)$	59E2F1EEAF906B168FC5226D6E2A295C488BC1D37A7BECA8193F9 A570194E08DF23171E5EF24D150A9BF302095C0DA751C7E65B913 7D76FA51495E894B93576D456E10E9CBF556692794213711F6025 41E9871D9D030E724623596E21EF66BAEA334360B3CCEB9698A20 930D9C4E921057835D7B89E493ED33D7F9CEA001AC77

* $P_i(t+N)$: P-code sequence of PRN number i shifted by N hours. See Sections 3.3.2.1, 6.3.6.2.1.

IS :

PRN Signal No.	P-code Relative Advance (Hours)*	P-Code, Left-to-right to last chip of GPS Week (hexadecimal)
001	$P_1(t)$	66297E28E08F71E0F95A694BC576072D32930112D3749C4738D09 6135E156848B7BC7B4D4FDFB8A7CBEC83ECEFF009DDB09DC1E55A9 69FC2BCD922D0C404A979D34BE6976E7889E6244C51F83854C7BD 5CFF3F915FA8C4BD6B42685D59BE159FF5DCB7CA9AF42AB85A425 8AB66D8F25593C8536E73686DAF8173783FBAA32E3E1
002	$P_2(t)$	D3165186CF86CFA0F95A694BC576072D32930112D3749C4738D09 6135E156848B7BC7B4D4FDFB8A7CBEC83ECEFF009DDB09DC1E55A9 69FC2BCD922D0C404A979D34BE6976E7889E6244C51F83854C7BD 5CFF3F915FA8C4BD6B42685D59BE159FF5DCB7CA9AF42AB85A425 8AB66D8F25593C8536E73686DAF8173783FBAA32E3E1
037	$P_{37}(t)$	96778423671CF933BA057BF3C576072D32930112D3749C4738D09 6135E156848B7BC7B4D4FDFB8A7CBEC83ECEFF009DDB09DC1E55A9 69FC2BCD922D0C404A979D34BE6976E7889E6244C51F83854C7BD 5CFF3F915FA8C4BD6B42685D59BE159FF5DCB7CA9AF42AB85A425 8AB66D8F25593C8536E73686DAF8173783FBAA32E3E1
038	$P_1(t+24)$	F7A4CB846B98ACD06BDD33AFE1DC3C0B35EA2A250E0DC70D959CE 3DBA19FB64E2441EB9B2EC5D473EF667E8258AA18DADE37D1A092 076F84E33B7DA1748635BEAA94B1DF852CCA25154CB00C34F5D32

		661F4B5DDCB25FC1C70BD246E4FD531D565624F8FDB3B13C9F943 7BA9776B57BCC096E22EC56D2FD11D4C4D61EE988800
074	P _{37(t+24)}	C2B55E4A0E04226972B40620CC5E728370D9A2A0B3030EF445070 3A7F4C1AF143844D6AD26E061AAADFD2521AD48320DE2A6B605B4 1740D49E24C436B2A00297E7F2A354DE6A33E8D2EF5AC7F054E12 D34E8639AC06C3F1A373C1EA937A8E3E4E0883A2B0CC838B7C362 1132A8594A48CD2B71C96947E7B488093CA93A955F08
075	P _{1(t+48)}	F4FE4A61E668669524717749357D2AC58411FC6A54F18FFC9EC51 DB121ED2F6E4ECB856F4FA534D84E6E5BF20296241C7157CBD443 7C4D829D5510517CF42AD5D431B302EB207D4616C3C0F831652B3 A8935F7DFA517ECADDEACC78AC02DE1EF8419D3483DF897C15C8B 56805CC6750CC1BEA98A0DBEC9E66EB98A69F8ED6D86
111	P _{37(t+48)}	D9352A5F9E318A772A6B0A8498A4B6CD1D93B3CC581CB390B0A8C 728E47430F29043FF3F2048C745EBEB2B2B1758B05AE70575C9DE E14173D3337616D546E448E77582A2698063C5040F91B1C06C162 274B16C1B0EE02B3A11DF3FA22D49FDDAA877B728A2DF817BBD0E 29722205C89A5F91A3E26955630EC48402CA4DAA0378
112	P _{1(t+72)}	2DFE2345638E31C27B7CC27EEF9FF9DC383E98505F5EC50C1F741 805A821A451998BDCAFB8094C2589F283AF1C9056CA796083A50C F95CB6A5340DDFE9E82C71C2C5A390DC0C8FF6795B3DB8B733E2B 991F8B484A3528B8F89BD695404DA2817602828C468E014C72441 33F61EC113D121F848671DB0332B578D2EF38331B99B
148	P _{37(t+72)}	D623879A83A18CE562356FF1ED546D9E603D9EFDC3DE45D310123 387EC6F20A9D8DF378CDD3CC2D9E491ECA4CB217DDF36E512E4BE 6235F4C7CB270596C0F5900E2442C828EF22CC277D5E9AC69599F 67CD400833F6CFF0FA1BB69D00838E7374438CBB72C9C9EC3785F A14245896ECD3BB1D58FB7510D101584ED669E394931
149	P _{1(t+96)}	FA28476F17FCF42B2DD127DCF42250039E03183B21EBFB83544E 922469EC9824641BE138193A95EE51A1E57C598C3813FD19805E2 676E5D997DC13C358246B521F8FA9D17865FA6B02AD9D1D5D5E46 B725D51A52DC20CD3ADA5013E419249B48DC6FCF8933919F24DA4 FB3F56BB4154E0BFD5C2300DB9B0040D0F41D507F7FF
185	P _{37(t+96)}	5FFAD9744EDCEAA7C57243AF783EB3C44120433003C3AF4E2EC63 42CAECC2FBBA634C151E0C064F2270842F37DEFF400BB759BB00A 09244EC922C42B2504695E33E2E46466DCF75CFBC5F39FCA0287B 0EAF60EE1156A15DB95261A5CA7961B1E06C4DAD12427380B7E2 319113173241AF3670A7EB4574CA475F35CF2B014B2A
186	P _{1(t+120)}	B279A52DA308C52BDDFF13565B40C1FEDF33A0E623C55734B7C8F1 79B9B50E5421F1C8024B8BDEB14079643AB41153FA0E5660ADF78 F527584899F4CCB03B47E4AB9214BEECEBCF5CF051A5FA049D105 D03D945B9085A58C583A392E7CA1FA6B5FF5FF0BB436CAE9C1FD4 4B0124E42332A03A54AE23A23A82223DB0B43C9BE049
210	P _{25(t+120)}	59E2F1EEAF906B168FC5226D6E2A295C488BC1D37A7BECA8193F9 A570194E08DF23171E5EF24D150A9BF302095C0DA751C7E65B913 7D76FA51495E894B93576D456E10E9CBF556692794213711F6025 41E9871D9D030E724623596E21EF66BAEA334360B3CCEB9698A20 930D9C4E921057835D7B89E493ED33D7F9CEA001AC77

* P_{i(t+N)}: P-code sequence of PRN number i shifted by N hours. See Sections 3.3.2.1, 6.3.6.2.1.

Rationale :

Per RFC-349: Proposed P-Code Clarifications to IS-GPS-200 . We recommend adding longer samples of P-code at both the beginning and end of the week. In the case of the end of the week, the samples should be sufficiently long that the final state transitions of all shift registers are covered for all PRNs. This approach avoids any appearance of direction regarding implementation of the P-code process while providing a developer with sufficient example material to confirm their implementation.

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IS200-1656 :

Insertion after object IS200-1379

Section Number :

40.3.3.5.1.4.1

WAS :

N/A

Redlines :

[These four-bit terms shall occupy bits 9 through 24 of word three, the 24 MSBs of words four through seven, and the 12 MSBs of word eight, all in page 25 of subframe 4.](#)

IS :

These four-bit terms shall occupy bits 9 through 24 of word three, the 24 MSBs of words four through seven, and the 12 MSBs of word eight, all in page 25 of subframe 4.

Rationale :

This paragraph was inadvertently removed from RFC-288. Put back by RFC-349 as part of RFC-288 adjudication of LM's comments on RFC-288.

IS200-1657 :

Insertion after object IS200-1656

Section Number :

40.3.3.5.1.4.2

WAS :

N/A

Redlines :

[Since the anti-spoof information is updated by the CS at the time of upload, the anti-spoof data may not correspond to the actual anti-spoof status of the transmitting SV or other SVs in the constellation.](#)

IS :

Since the anti-spoof information is updated by the CS at the time of upload, the anti-spoof data may not correspond to the actual anti-spoof status of the transmitting SV or other SVs in the constellation.

Rationale :

This paragraph was inadvertently removed from RFC-288. Put back by RFC-349 as part of RFC-288 adjudication of LM's comments on RFC-288.
