

## CHANGE NOTICE

<b>Affected Document:</b> ICD-GPS-870 Rev E	<b>IRN/SCN Number</b> XXX-XXXX-XXX	<b>Date:</b> DD-MMM-YYYY
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<b>Authority:</b> RFC-00477	<b>Proposed Change Notice</b> PCN-ICD-870E RFC477	<b>Date:</b> 09-JUN-2022
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**Document Title:** Navstar Next Generation GPS Control Segment (OCX) to User Support Community Interface

**RFC Title:** OCX XML Products for Civil Users

**Reason For Change (Driver):**

1. The technical baseline does not reflect OCX as built. The five GPS data products distributed in the AEP era are the Notice Advisory to Navstar Users (NANU), the Operational Advisory (OA), the Almanac (SEM & YUMA), the Satellite Outage File (SOF), and the Anti-Spoof (A-S) file. These data products are formatted in plain text and they:
  - a. Are being deprecated i.e. further updates and support are discontinued while ensuring backwards compatibility
  - b. Do not conform to the requisite National Information Exchange Model (NIEM) Naming and Design Rules
2. There is no communication mechanism to alert external stakeholders of changes happening due to the transition from AEP to OCX

Linked Pre-RFCs. 1016: Namespace entries in XML files should look like government URLs and 1152: Public XML for ICD-GPS-870

NOTE: The Operational acceptance of OCX might be impacted by the OCX XML Products without a workaround and the potential of associated action items from the 2022 Public ICWG

**Description of Change:**

1. Update the technical baseline to reflect OCX as built. Consolidate the five, plain text data products into four, XML based data products for distribution. The four new data products are the GPS Advisory (NANU), GPS Advisory Collection (SOF), Ops Status (OA), and the Public Common Almanac (SEM, YUMA, and A-S)
  - a. Provide a Validate and Transform Utility (VATU), ensuring backwards compatibility
  - b. Baseline the NIEM Information Exchange Package Documentation (IEPD) specification which contains schemas, documentation, business rules, metadata, and samples
2. Notify the external stakeholders of the transition from AEP to OCX so they can implement the necessary changes

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AUTHORIZED SIGNATURES	REPRESENTING	DATE
	PNT Technical Director, MilComm & PNT Directorate, Space Systems Command (SSC)	
	Space Delta 8	
	Department of Homeland Security (OHS), United States Coast Guard (USCG), Navigation Center (NAVCEN)	
	Department of Transportation (DOT), Federal Aviation Administration (FAA)	

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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 <hr/> CODE IDENT 66RP1
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**ICD870-744:**

Insertion after object ICD870-6

**Section Number:**

1.1.0-7

**WAS:**

<INSERTED OBJECT>

**Redlines:**

[GPS developer/sustainer organizations together with developers/sustainers/operators of systems which consume GPS data are collectively referred to herein as the GPS Community.](#)

*Object Type:* [Info-Only](#)

**IS:**

GPS developer/sustainer organizations together with developers/sustainers/operators of systems which consume GPS data are collectively referred to herein as the GPS Community.

*Object Type:* Info-Only

**Rationale:**

Comment received during review period identified the need for clarification in the document as to the meaning of "GPS Community". Copied exact text for definition contained within ICD-GPS-875A ICD875-493.

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**ICD870-721:****Section Number:**

3.1.0-12

**WAS:**

The GPS CS will employ schema versioning whereby new data dissemination data/schema will be made available early in a pre-production form to allow synchronized development of automated ingestion and processing systems by users. In addition, operational data will be available in a production-full support form and in a production-deprecated form to allow graceful transition and retirement of obsolete data/schema.

**Redlines:**

~~The GPS CS will employ schema versioning whereby new data dissemination data/schema will be made available early in a pre-production form to allow synchronized development of automated ingestion and processing systems by users. In addition, operational data will be available in a production full support form and in a production-deprecated form to allow graceful transition and retirement of obsolete data/schema.~~

**IS:**

<DELETED OBJECT>

**Rationale:**

Schema versioning is not contained in any requirement leveraged against the CS. This item is being deleted to closer align with ICD-GPS-875.

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**ICD870-681:****Section Number:**

3.1.0-35

**WAS:**

The CS will employ schema versioning whereby new data/schema will be available in a non-operational pre-production form to support integration, test and transition. In addition, operational data will be available in a production-full support form and in a production-deprecated form to allow graceful transition and retirement of obsolete data/schema.

**Redlines:**

~~The CS will employ schema versioning whereby new data/schema will be available in a non-operational pre-production form to support integration, test and transition. In addition, operational data will be available in a production full support form and in a production-deprecated form to allow graceful transition and retirement of obsolete data/schema.~~

**IS:**

<DELETED OBJECT>

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**Rationale:**

Schema versioning is not contained in any requirement leveraged against the CS. This item is being deleted to closer align with ICD-GPS-875.

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