



GOES-R Series Update

GOES Data Collection System

*Technical Working Group (TWG)
and*

*Satellite Telemetry Interagency Working Group (STIWG)
Meetings*

Miami, FL

March 2018



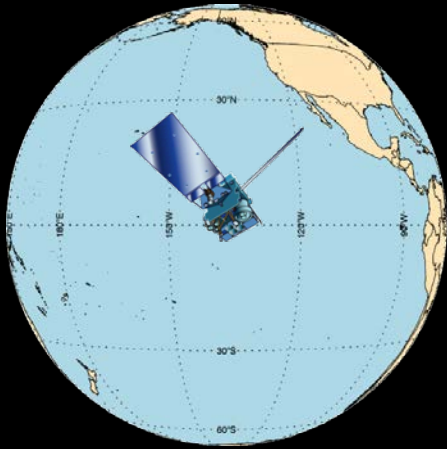
GOES-R, S, and T Update

- GOES-16 assumed operations as GOES East on December 18, 2017
- GOES-S lifted off at 5:02 p.m. EST on March 1, right at the opening of the launch window, from Cape Canaveral Air Force Station, Florida, aboard an Atlas V 541 launch vehicle from Launch Complex 41.
- GOES-T is planned to launch in 2020

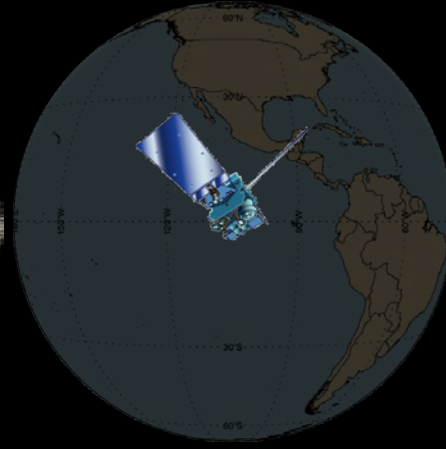


GOES Constellation

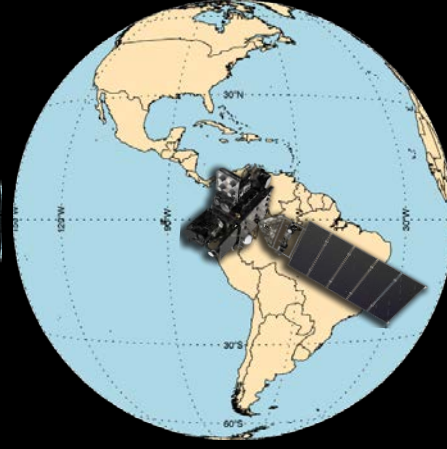
GOES-West
GOES-15
135° West



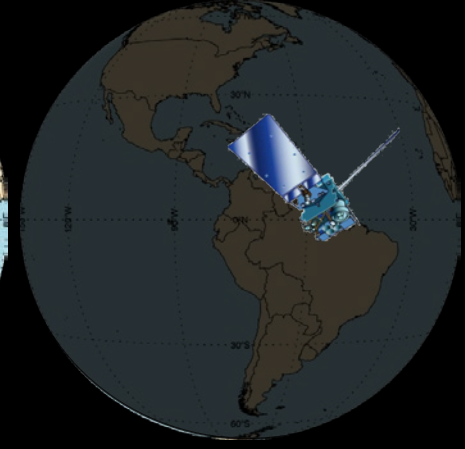
Standby
GOES-14
105° West



GOES-East
GOES-16
75.2° West



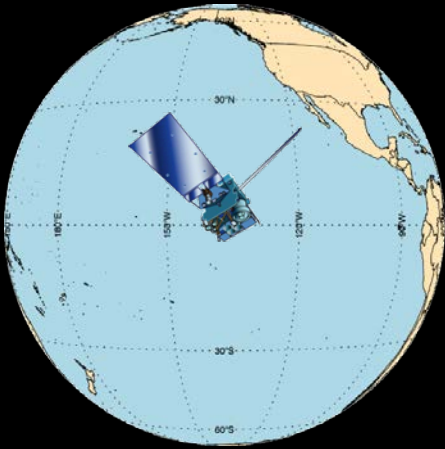
Storage
GOES-13
60° West



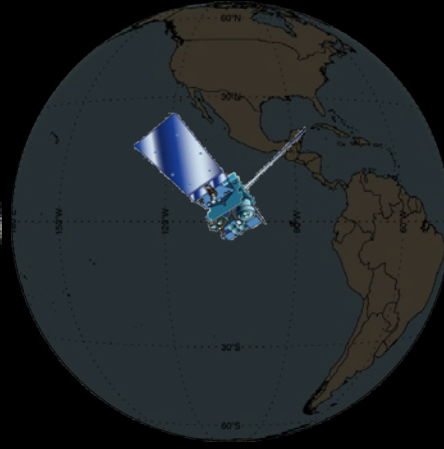


GOES Constellation

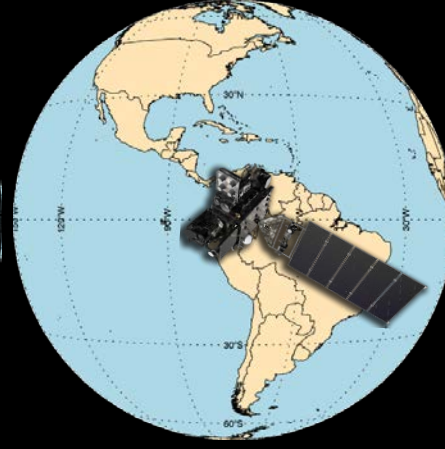
GOES-West
GOES-15
135° West



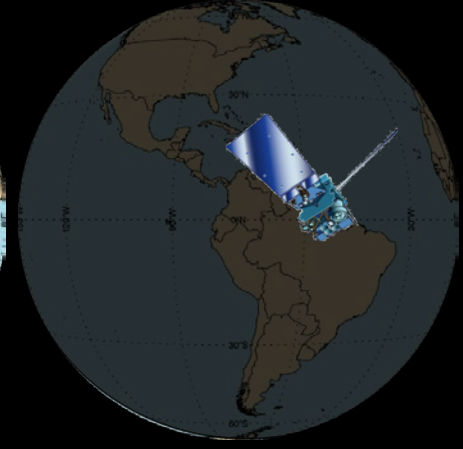
Standby
GOES-14
105° West



GOES-East
GOES-16
75.2° West



Storage
GOES-13
60° West

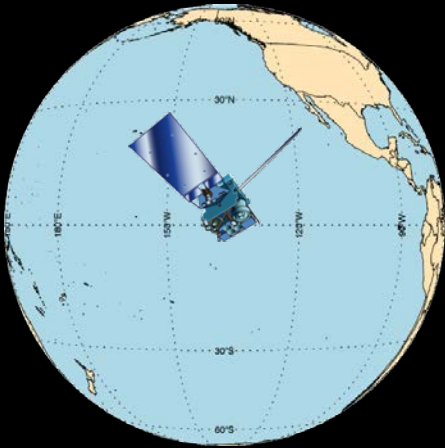


Checkout
GOES-S
89.5° West

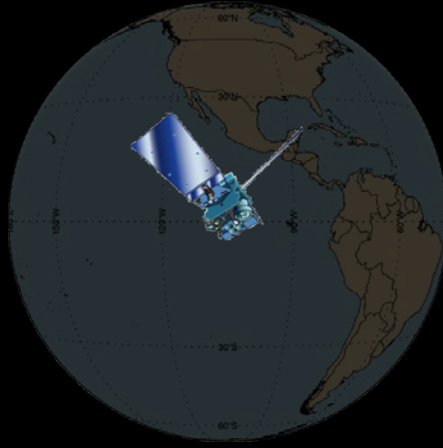


GOES Constellation

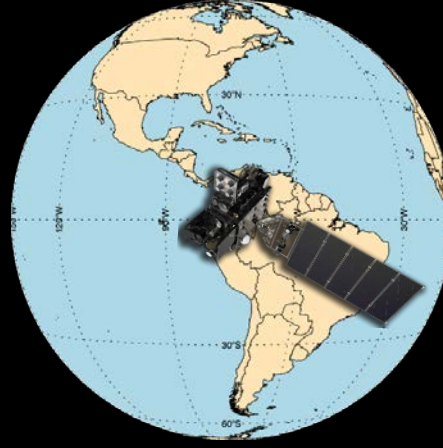
GOES-West
GOES-15
135° West



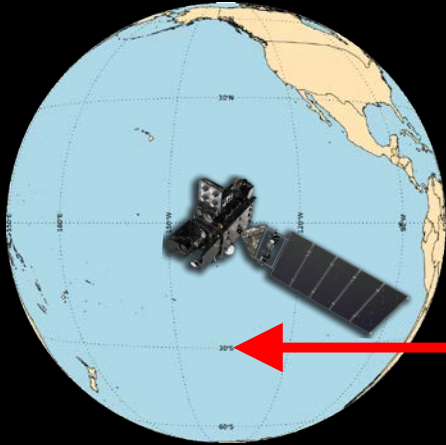
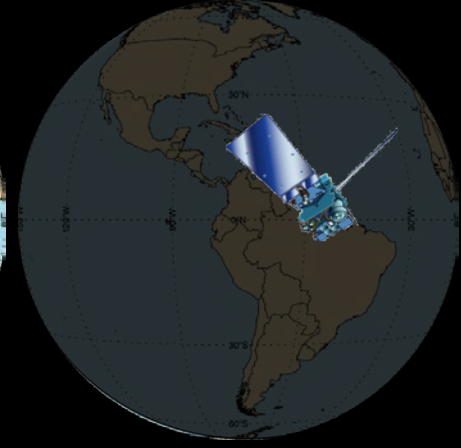
Standby
GOES-14
105° West



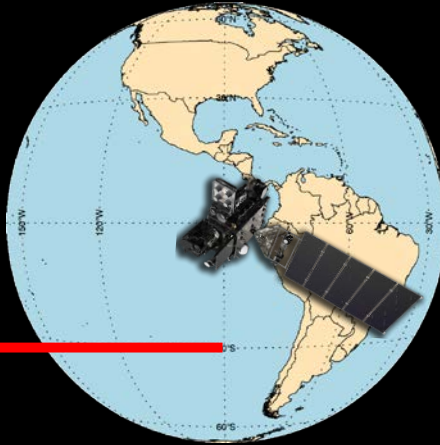
GOES-East
GOES-16
75.2° West



Storage
GOES-13
60° West



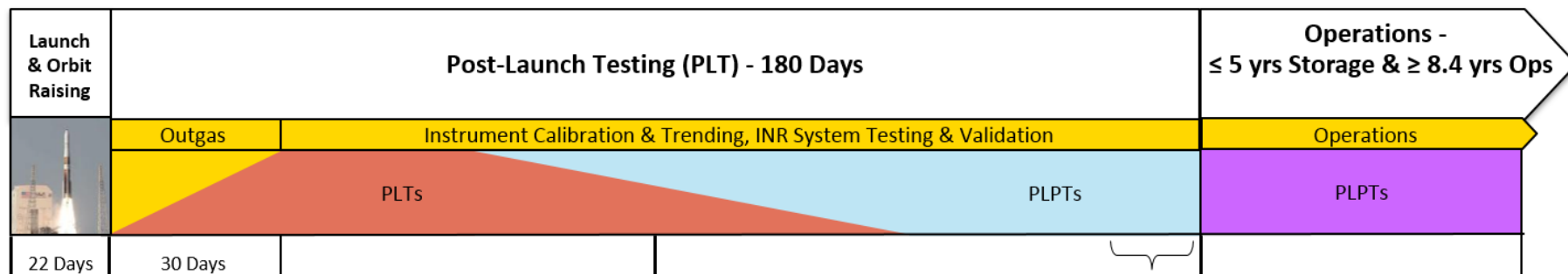
GOES-West
GOES-S
137° West



Checkout
GOES-S
89.5° West



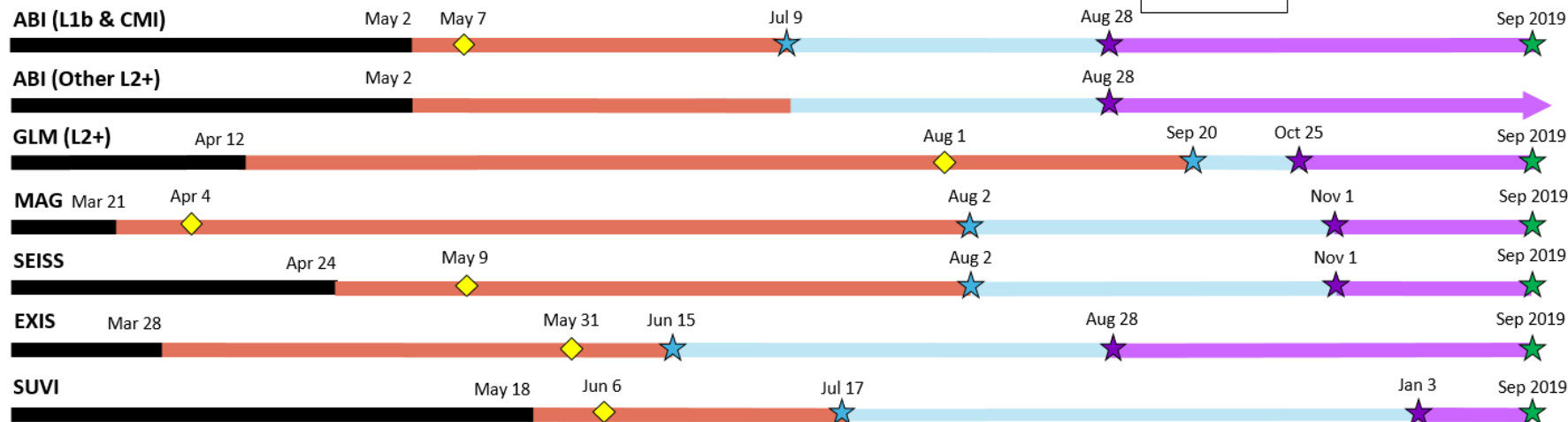
GOES-S Post-Launch Science Product Validation Schedule



Peer-Stakeholder Product Validation Reviews (**PS-PVRs**) begin, **GRB populated with data** (one day after an instrument reaches Beta validation)

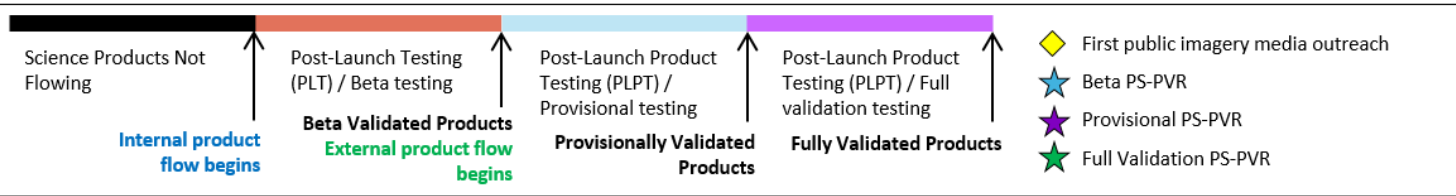
Post-Launch Assessment Review (**PLAR**), Handover Readiness Review (**HRR**), **Ops & Product Handover to OSPO**

Drift Start to West Assignment **Oct 2018**



LEGEND

Current as of March 7, 2018
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Note: All dates are coordinated with Flight/MOST PLT SOE group and are subject to change.



Back-Up



Data Sharing Policy

When data is Beta:

- All data postings should state: “GOES-17 Preliminary, Non-Operational Data”
- No sharing of data files

When data is Provisional:

- Post caveats and continue stating “GOES-17 Preliminary, Non-Operational Data”
- Data is *not* operational
- Sharing of data files allowed

From the NESDIS General Council Office:

NOAA's GOES-17 satellite has not been declared operational and its data are preliminary and undergoing testing. Users receiving these data through any dissemination means (including, but not limited to, PDA and GRB) assume all risk related to their use of GOES-16 data and NOAA disclaims any and all warranties, whether express or implied, including (without limitation) any implied warranties of merchantability or fitness for a particular purpose.

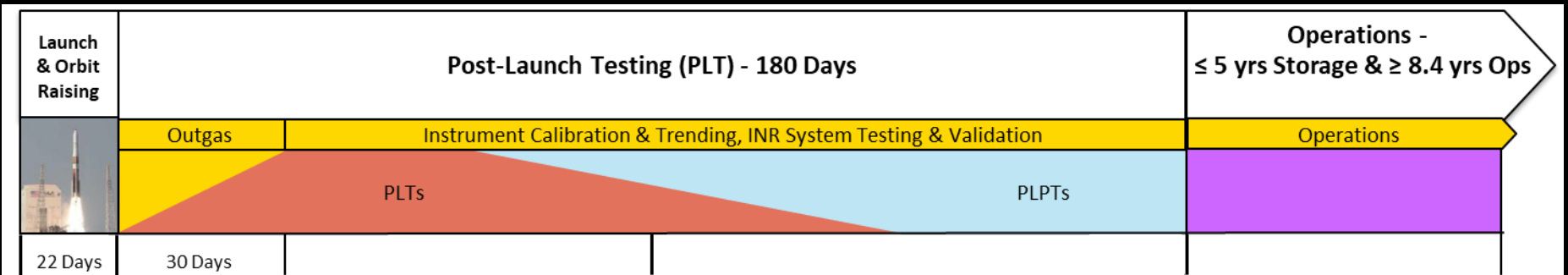


Product Distribution by Maturity

Product Validation Maturity	Distribution										Product Operational Status
	GRB	PDA		CLASS		LZSS		HRIT	GNC-A	AWIPS	
		Cal / Val	Other	Cal / Val	Other	Cal / Val	Other				
Pre-Beta		✓		✓		✓					Preliminary, Non-Operational
Beta	✓	✓		✓		✓					
Provisional	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	If satellite assigned GOES-East/West then Operational else Preliminary, Non-Operational
Full	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	



Data Release Strategy

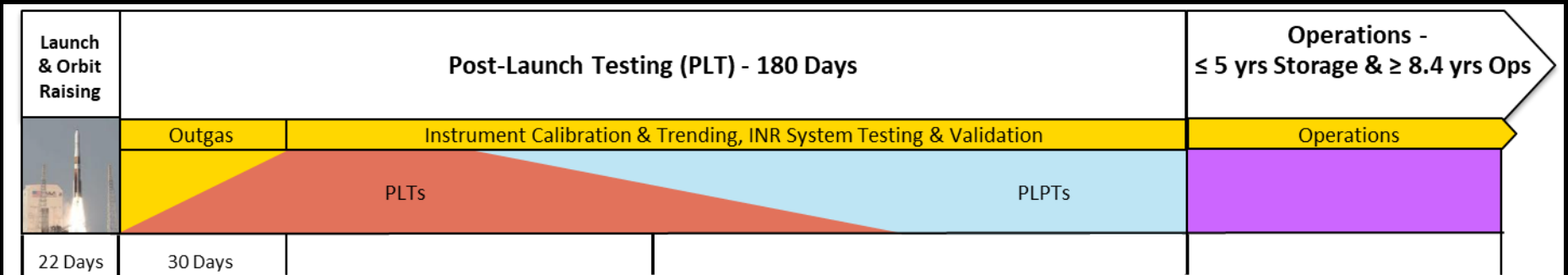


INTERNAL flow of instrument data: Commences upon completion of each instrument's outgassing

- Data will flow for path integrity test purposes to PDA and AWIPS
- Data will flow for instrument vendor and CWG Cal/Val purposes to LZSS
- Data will not be released from LZSS, PDA, AWIPS (SBN) to any downstream consumers other than instrument vendors, CWG, and CLASS. The Unique Payload Services (GRB, HRIT/EMWIN, DCS) will also not yet distribute data.



Data Release Strategy

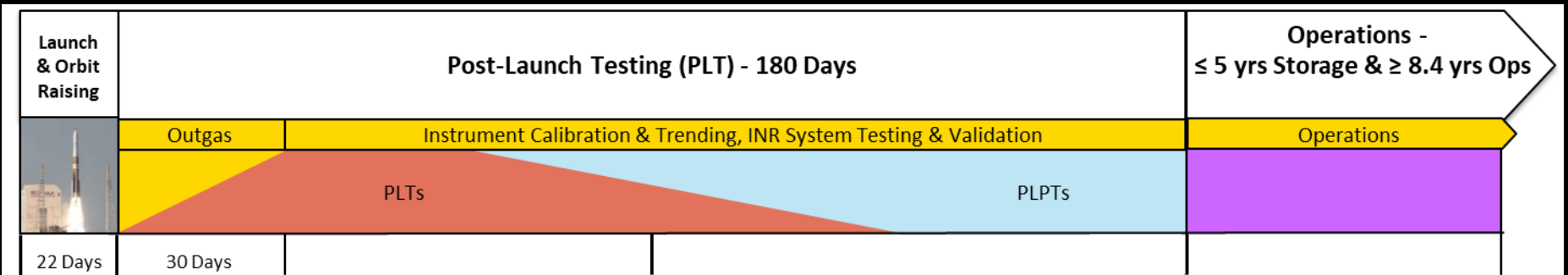


BEGINNING of EXTERNAL product distribution (PD): Commences by product upon attainment of Beta Maturity

- GRB will be populated
- LZSS, PDA, AWIPS (SBN) will flow data to their respective, integrated, downstream cal/val and I&T consumers
- PDA will not yet serve non-cal/val and non-I&T subscription holders
- Unique Payload Service Distribution [HRIT/EMWIN and GNC-A] will not yet distribute GOES-S



Data Release Strategy



COMPLETION of EXTERNAL product distribution (PD): Completed by product upon attainment of Provisional Maturity

- All subscriptions open to LZSS, PDA, AWIPS (SBN)
- Distribution on for Unique Payload Service Distribution [HRIT/EMWIN and GNC-A]