



## **STDDS R5.0 Release Notes**

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## 2 System Description

The System Wide Information Management (SWIM) Terminal Data Distribution System (STDDS) provides Service Oriented Architecture (SOA) interfaces for tower and Terminal Radar Approach Control (TRACON) systems to send terminal events to the National Airspace (NAS) Enterprise Message Service (NEMS) for subscription by NAS and non-NAS consumers using SWIM compliant infrastructure and interface standards.

STDDS interfaces with the Runway Visual Range (RVR) system, Electronic Flight Strip Transfer System (EFSTS), Airport Surface Detection Equipment Model X (ASDE-X) system, Airport Surface Surveillance Capability (ASSC) system, and Tower Data Link Service (TDLS) system at airports to accept, derive and publish airport information.

STDDS also interfaces with the Standard Terminal Automation Replacement System (STARS) General NAS User Services (GeNUS) interface at TRACONs and the SWIM Flight Data Publication Service (SFDPS) at ARTCCs.

Detailed information about the STDDS services, including Java Message Service Design Documents (JMSDDs), schema, sample data and site data availability can be found in the NAS Service Registry Repository ([NSRR](#)).

## 3 Summary of Release R5.0 Changes

STDDS R5.0 includes the following changes:

- Hardware:
  - Technical refresh of hardware at all 38 TRACON STDDS sites.
- Software
  - There are no software or schema changes in this release.
- Service
  - TAIS:
    - Change in TAIS data ceiling for STARS TRACON sites
  - SMES:
    - Addition of two ASSC sites

## 4 Details of changes

### 4.1 Hardware Technical Refresh

Due to the obsolescence of the existing components in the STDDS equipment, STDDS R5.0 tech refreshes the obsolete components with the latest form-fit components available on the market.

## 4.2 Software changes

There are no software or schema changes in this release.

## 4.3 Service Changes

### 4.3.1 Change in TAIS data ceiling for STARS TRACON sites

In STDDS R5 the TAIS data ceiling is adapted to ensure that all AIG200 track data with a correlated STARS flight plan is included in the published data. STDDS R4 had set a TAIS data ceiling of 18000 feet at all STARS TRACON sites. In STDDS R5 the TAIS data ceiling is individually adapted for each STARS TRACON with higher values where necessary. This change is likely to increase the amount of published TATrackAndFlightPlan data.

Affected Services	Affected Message Types	Schema changes?	User changes required?
TAIS	TATrackAndFlightPlan (FP)	No	No

### 4.3.2 Addition of Two New ASSC Sites

STDDS R5 adds two additional ASSC sites at KPDX (Portland, OR) and PANC (Anchorage, AK).

Affected Services	Affected Message Types	Schema changes?	User changes required?
SMES	All	No	No. Can add new sites to subscription if desired and needed.