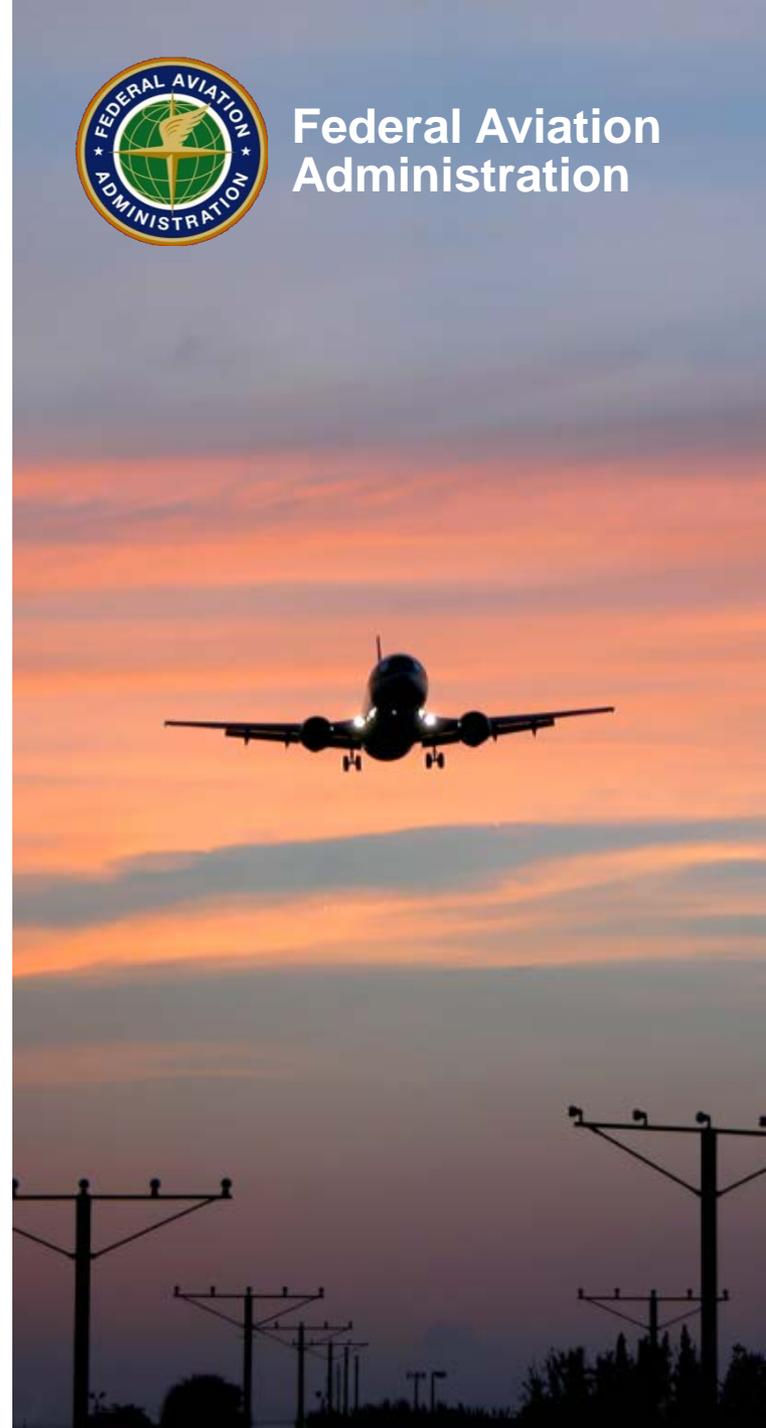


SWIM Users Forum – Session # 2

By: Jeri Groce - SWIM PMO
To: STDDS Consumers
Date: March 12, 2015



Federal Aviation
Administration



User Forum Logistics

- **Date:**
 - March 12, 2:30 pm – 4:00pm
- **Location:**
 - Noblis Lakes Conference Rm – A&B
- **Go-to-Meeting:**
 - Please register for “SWIM Users Forum” at:
<https://attendee.gotowebinar.com/register/7714939205210279426>
- **User Forum briefing distributed via invitation & Webinar**



Topics

- **Review of Questions & Answers from last forum**
- **Overview of the SWIM Help Desk, aka SWIM Operations Function (SOF)**
- **Update on ASDE-X SD Transition**
- **Update on RVR-DF Transition**
- **Review of NSRR**
- **Users Discussion/Feedback**



SWIM Operations Function

- **SWIM Operations Function (SOF) defined through joint effort between SWIM PO and NEO/NEMC in 2013**
- **Basic requirement to create a single FAA POC for SWIM customers to triage issues with SWIM SOA data flows**
 - Provide notification on scheduled/unscheduled maintenance actions that may impact customer data
 - Operations response desk for internal/external customer calls/inquiries on status of SWIM SOA services & data flows
 - Check available monitoring to determine who needs to be engaged to expedite problem resolution
 - Log and track all issues using RMLS/Event Manager
 - TOCC for all NEMS “L7” type and related NESG “SG” and OPIP “IP” services

Enterprise Services Team

- **NEO stood up an Interim Enterprise Services Team on Oct. 26th to begin handling the SWIM Operations Function**
 - Consists of four FAA employees, two contract support personnel, and one NEMC SSC Manager
 - Watch coverage is 12x5, 6am-6pm, Monday-Friday
 - Call-out availability 6pm-6am and weekends (*de facto* 24x7)
 - Coverage expanding as additional personnel are hired and trained
 - Target date for expansion to **FULL** 24x7 coverage is ~April 2015
- **Contact information:**
 - **1-855-FAA-NEMC** (855-322-6362)
Option #3, “Enterprise Services” for phone support
 - NEO-ES@faa.gov for email support



Enterprise Services Team Tools

- **NEMC Help Desk tools:**
 - Network Management and Operations (NMO) GUI
 - SWIM Visualization Tool (SVT)
 - Raytheon-developed STDDS Status Monitor
 - Volpe-developed STDDS/SVT Status Monitor
 - NAS Enterprise Messaging Service (NEMS) UI tool – recently deployed

NMO UI Dashboards

Producers

FTIH-L7-041554

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Service	Status	Performance	Usage and Business Indicators
ZTL/ARTCC_WMSS.HWDS		 0 Errors (per minute) 0 Message Backlog	 0 Messages Received (p....) 48 Consumers Active

Exchange

NEMS Exchange Components

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Service	Status	Performance	Usage and Business Indicators
ZTL.Exchange		 0.58 DAN CPU Utilization 74.63 DAN Disk Available (....) 37.27 DAN Memory Utilizati....	 0.05 DAN Network I/O Rate.... 15.73 DMN Network I/O Rate.... No Data Service Bus Status
ZLC.Exchange		 0.68 DAN CPU Utilization 84.96 DAN Disk Available (....) 14.63 DAN Memory Utilizati....	 0.01 DAN Network I/O Rate.... 8.56 DMN Network I/O Rate.... No Data Service Bus Status

Consumers

FTIH-L7-041517

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Service	Status	Performance	Usage and Business Indicators
ZAN/ARTCC_OASIS.Topic01.Consumer		 0 Message Backlog 0 Stuck Messages	 0 Consumers Active 0 Messages Received (p....)

NEMS UI Hosts View

Oracle Enterprise Manager Cloud Control 12c

Search Target Name

Hosts

Page Refreshed Feb 20, 2015 3:15:59 PM GMT

Search Advanced Search

View Add Configure Run Host Command

Name	Status	Pending Activation	Incidents				Compliance Violations			Average Compliance Score	CPU Util %	Mem Util %	Total IO/sec
			None	Warning	Warning	Critical	Critical	Warning	Minor				
acywjhtc1031.ftiharris.com	↑	-	0	1	0	0	3	0	0	51	7.53	27.92	50.5
acywjhtc5081.ftiharris.com	↑	-	0	1	1	0	1	0	0	51	18	38.18	42.64
acywjhtc5082.ftiharris.com	↑	-	0	1	0	0	1	0	0	51	0.29	17.58	8.29
acywjhtc5083.ftiharris.com	↑	-	0	1	0	0	1	0	0	51	9.14	35.14	30.89
acywjhtc5084.ftiharris.com	↑	-	0	1	0	0	1	0	0	51	0.16	16.02	7.19
acywjhtc5085.ftiharris.com	↑	-	0	1	0	0	1	0	0	51	11.97	30.59	27.8
atlnadin5091.ftiharris.com	↑	-	0	1	1	0	3	0	0	51	4.99	30.8	25.24
atlnadin5093.ftiharris.com	↑	-	0	1	0	0	3	0	0	51	1.58	24.09	15.64
atlnadin5095.ftiharris.com	↑	-	0	1	0	0	3	0	0	51	5.07	24.13	15.09
bnocc1571.ftiharris.com	↓	-	0	1	1	0	1	0	0	51			
bnocc1574.ftiharris.com	↓	-	0	1	1	0	1	0	0	51			
bnocc1577.ftiharris.com	↓	-	0	1	1	0	2	0	0	51			
oexarctr1031.ftiharris.com	↑	-	0	1	1	0	3	0	0	51	4.35	27.13	46.58
oexarctr1032.ftiharris.com	↑	-	0	1	0	0	1	0	0	51	0.76	14.45	8.48
oexarctr1033.ftiharris.com	↑	-	0	1	1	0	1	0	0	51	3.46	21.83	34.44
oexarctr1034.ftiharris.com	↑	-	0	1	0	0	1	0	0	51	0.44	10.82	7.57
oexarctr1035.ftiharris.com	↑	-	0	1	1	0	1	0	0	51	4.88	21.93	33.08



NEMS UI Messages Received

The screenshot displays the Oracle Enterprise Manager interface for a WebLogic Cluster. The main content area shows the 'Messages Received (per minute)' table, which lists various destination names and their associated metrics.

Destination Name	Module Name	Type	Average Value	Low Value	High Value	Last Known Value	Current Severity	Alert Trigg
UNTRUSTED.SITE.DATA_TEXT	DistQueue	Queue	3,627.66	0	5,606.29	5,461.38	Not Applicable	-
UNTRUSTED.SITE.DATA	DistQueue	Queue	50.55	0	104.15	67.11	Not Applicable	-
UNTRUSTED.SITE.ASDEX_TEXT	DistQueue	Queue	3,574.93	0	5,978.73	5,651.84	Not Applicable	-
UNTRUSTED.SITE.ASDEX	DistQueue	Queue	3,854.08	0	6,549.03	5,848.42	Not Applicable	-
SITE.FDPS_TEXT	DistQueue	Queue	0	0	0	No data	Not Applicable	-
SITE.FDPS_SR_TEXT	DistQueue	Queue	0	0	0	No data	Not Applicable	-
MOSAIC.Topic02.OUT	Topic-Module	Topic	3,106.21	0	3,227.16	3,107.17	Not Applicable	-

Below the table, the 'Destination Name/Module Name/Type' is specified as **MOSAIC.Topic02.OUT/Topic-Module/Topic**. The 'Statistics' section shows the following values:

- Last Known Value: 5583.55
- Collection Timestamp: Mar 10, 2015 6:50:39 PM GMT
- Average Value: 3,518.92
- Low Value: 0
- High Value: 5,904.48

The 'Thresholds' section indicates that the Warning/Critical threshold is Not Defined/Not Defined, and the Comparison Operator is >. The Occurrences Before Alert is set to 2, and the Corrective Actions are None. A note states: 'Thresholds last modified by Template Enable_Cluster_Metrics was applied by SYSMA'.

The 'Metric Value History' section features a line graph showing the 'Messages Received (per minute)' for the specified destination over a 24-hour period. The graph shows a relatively stable trend around 4,000-5,000 messages per minute, with a significant spike reaching approximately 6,000 messages per minute around 06:00 on March 10, 2015. The x-axis represents time from 19:00 on March 09, 2015, to 18:00 on March 10, 2015. The y-axis represents the number of messages received, ranging from 0 to 7,000.

NEMS UI Messages Received



Update on ASDE-X SD transition

- **Not all clients are transitioned, but**
- **No more dependency on the legacy data**
- **Legacy feed is being dismantled in March**

- **Thanks to all who worked hard to transition!**



Update on RVR-DF transition

- **Approximately 25 clients to transition**
- **FAA EES team is coordinating the transition**
- **Work has begun on the transition**
- **Target date to complete transition:
November 2015**



NSRR

- **NAS Service Registry/Repository**
- **URL: <https://swimrep.faa.gov/soa>**
- **Request an Account**
 - Affiliation: FAA, FAA Contractor, FAA Business Partner
 - Access Type: Read-Only
- **Account created within “a few days”**



NSRR Demo



Federal Aviation Administration



**NAS Service Registry / Repository
(NSRR)**



User Name: ?

Password:



NSRR Demo

- **NSRR Service Catalog Browser**
 - Filtering
 - Favorites
 - Lifecycle Stage
- **4 STDDS Services**
 - STDDS Airport Data
 - STDDS Surface Movement Event
 - STDDS Terminal Automation Information
 - STDDS Tower Departure Event



NSRR Demo (cont'd)

- **STDDS Services Documentation**
 - Generally the same for all 4 services
 - Exceptions primarily with TAIS, which is still in Development
 - Currently about 13 documents
 - Some oriented towards FAA needs/processes
 - Others oriented towards service consumers



NSRR Demo (cont'd)

- **STDDS Documents to highlight:**
 - STDDS Site Data Availability.xls
Table showing which airports supply which STDDS data
 - STDDS_WSDD_R3.1.docx
Web Service Description Doc, provides details of the XML messages and their data elements
 - STDDSExternalInterfaces.zip
The XML message schemas (XSDs)
 - NEMSTopicClient_v1.02.tar.gz
Sample client code
 - TAIS Sample Data.zip (in TAIS catalog only)
Sample data from STARS (future service)

NSRR Demo (cont'd)

- **Future NSRR changes:**

- Planned:

- Sample data for all STDDS services (soon)
 - WSDD -> JMSDDs (R3.2 drafts ~Jun'2015)
 - Release notes (R3.2 draft ~Jun'2015)

- Ideas:

- Better segregation of internal and external files
 - A cleaner interface

Users Feedback

- **User role call – Feedback discussion**

