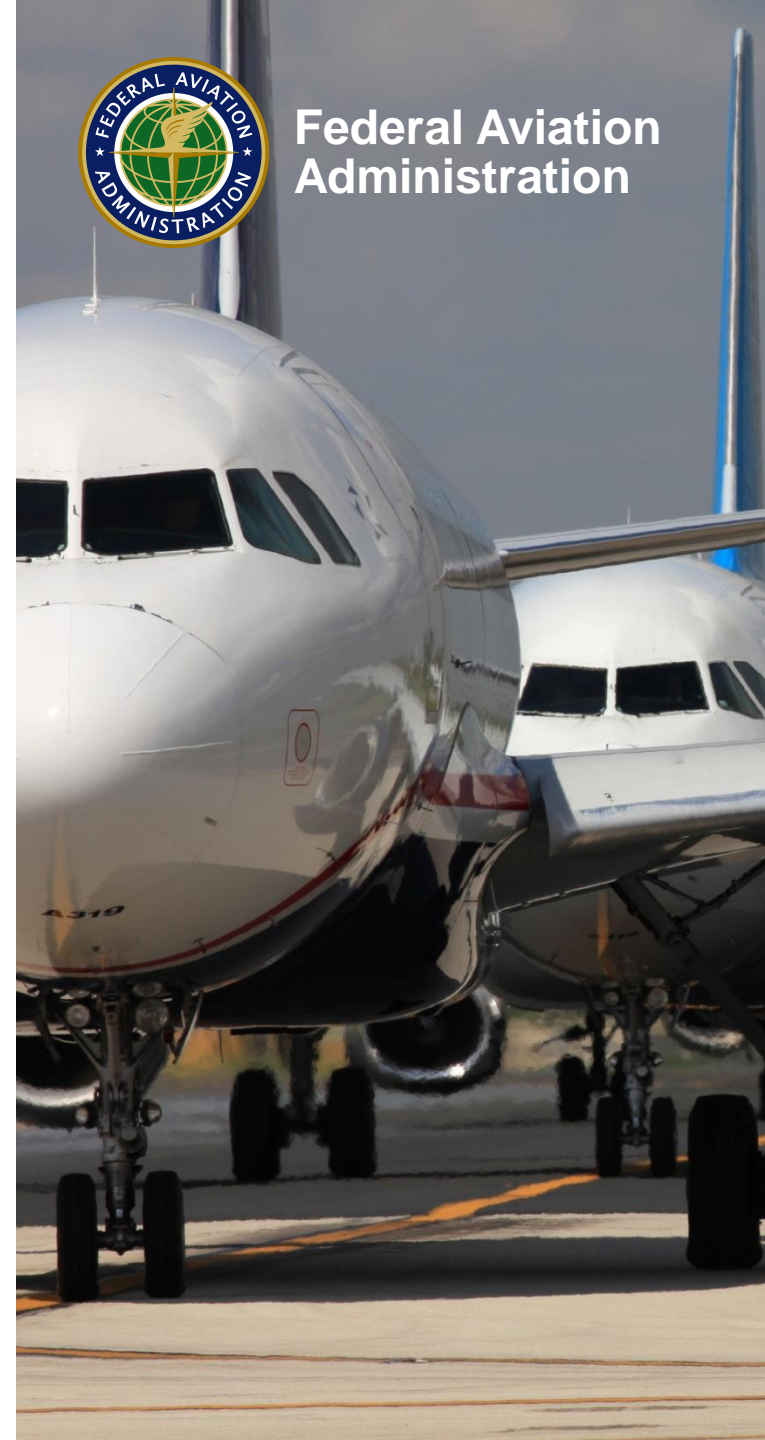


# Airport Arrival Demand Chart (AADC) Information

**Date: July 28, 2017**



Federal Aviation  
Administration



# Purpose

- **Provide information on the use of the updated TFMS AADC web application**
- **Patch will be 'Ready for Installation' on August 05, 2017**
- **Estimated Time to Complete: 30 minutes**



# Airport Arrival Demand Chart (AADC) - Overview

- AADC is a web application available via a link on [www.fly.faa.gov](http://www.fly.faa.gov)
- AADC provides real-time airport arrival demand information
- AADC charts display the latest arrival demand metrics for selected airports by:
  - Arrival status
  - Alert status
  - Arrival fix
  - Carrier
  - Departure Center
- For FAA Intranet users, the AADC also provides a Flight List
- AADC data source is the Bar Graph Data (bgd) files, which are generated by the BarGraphManager process running on the TSS's FSM Server

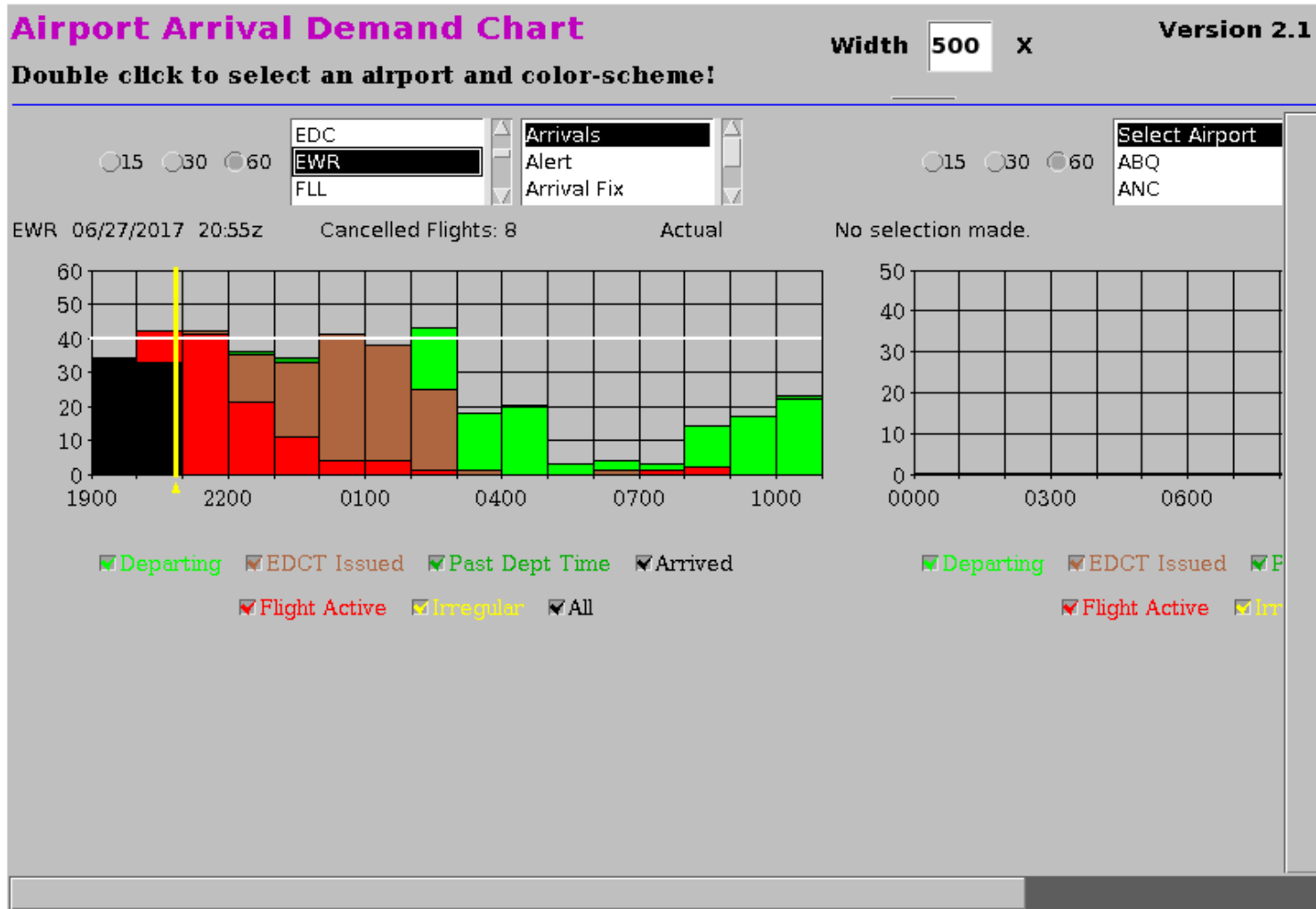


# Airport Arrival Demand Chart (AADC) – Problem

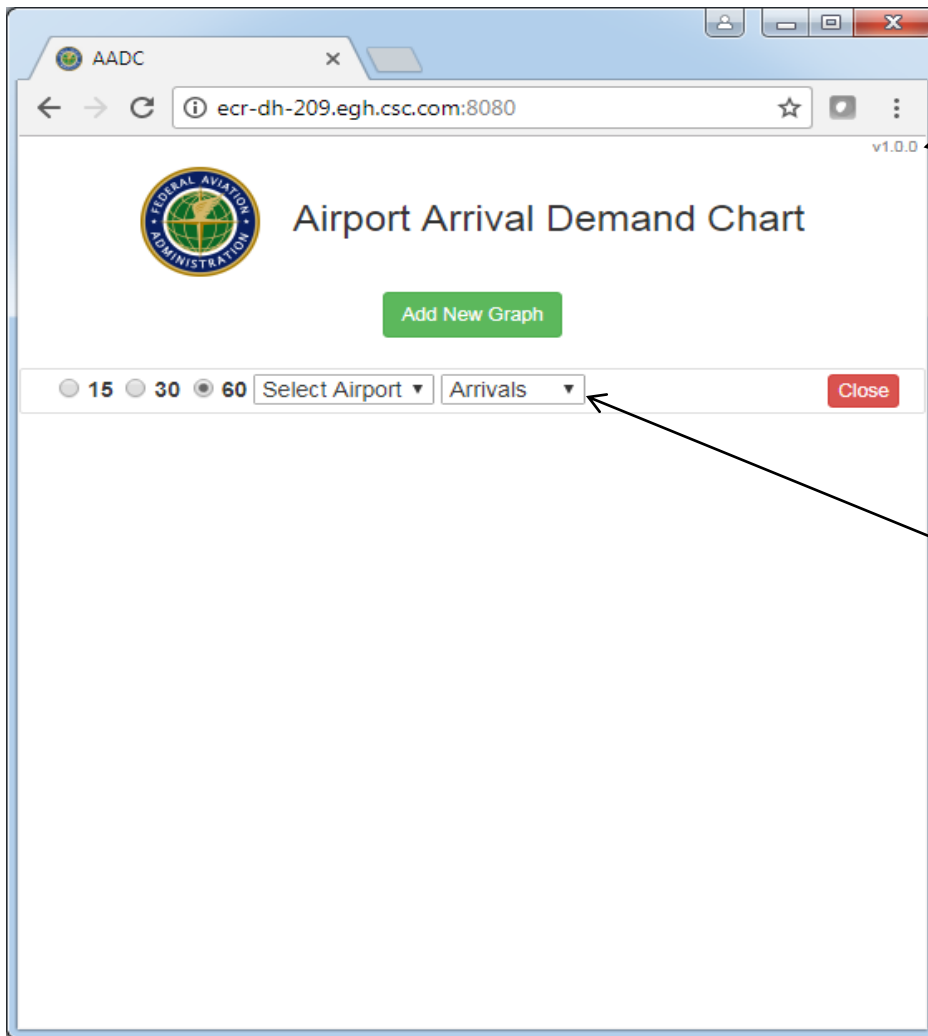
- Current Operational implementation of AADC is a Java Applet
- Due to security vulnerabilities, stability issues, and performance issues browser vendors are removing support for running Java Applets
  - The latest versions of the following browsers don't support applet technology:
    - MS Edge
    - Chrome
    - FireFox
- Java is removing support for Java Applets in the next major release, Java 9. Java 9 is scheduled for release on July 27, 2017.
  - Java8 doesn't support the applet technology
- Since Java 9 and the browsers don't support the applet, the FAA decided to modernize it using Angular 4 a REST web service (CR46378/AIMS173009).



# AADC – Current Operational Version (Java Applet)



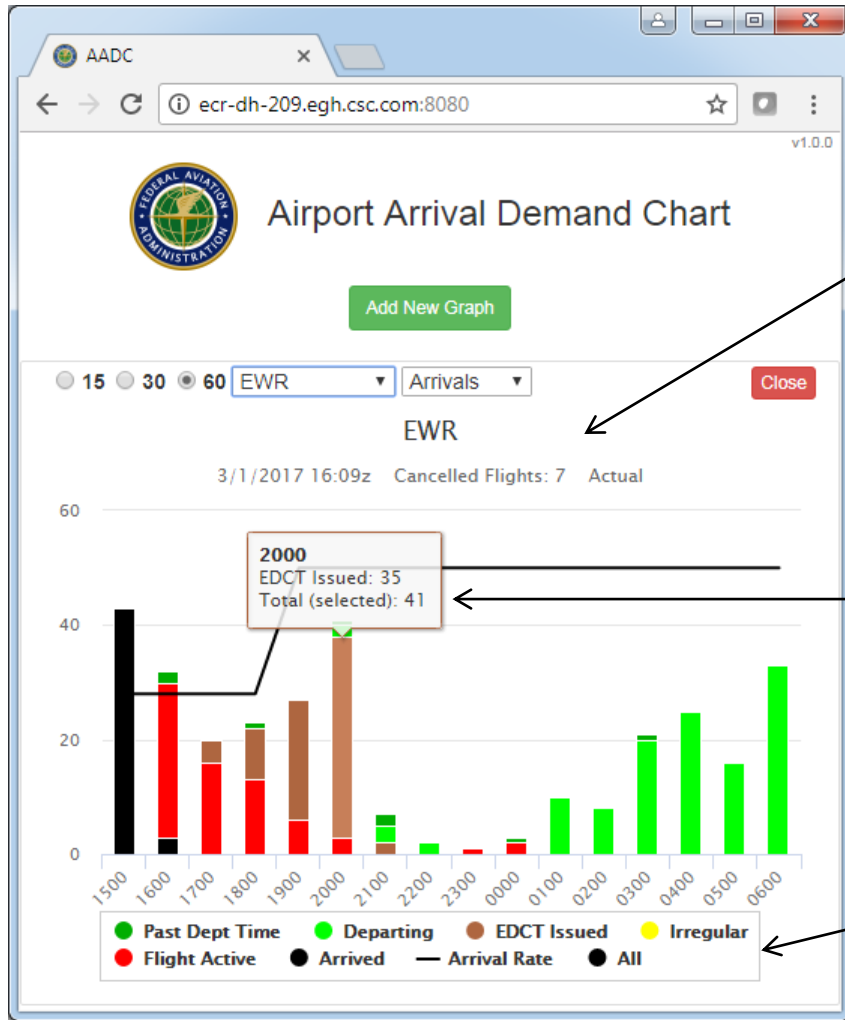
# New AADC Application – General Features



- Version Number
- Add New Graph
- Close current graph
- Time Periods of 15, 30 and 60 minutes
- Select Airport – Dropdown contains a list of airports. Must select an airport for graph to display
- Report selection for:
  - Arrivals
  - Alert
  - Arrival Fix
  - Carrier
  - Centers



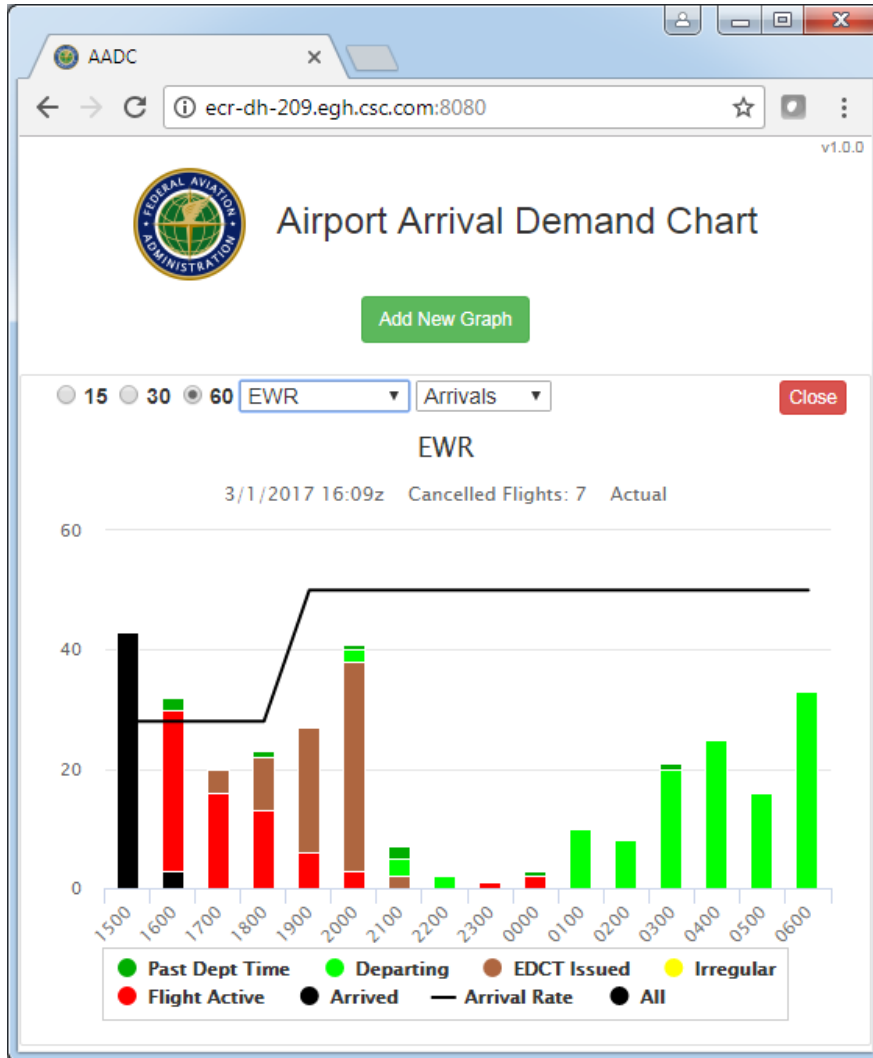
# AADC – General Features (continued)



- Header includes:
  - Airport
  - Time – FSM Data time
  - Number of Canceled flights
  - Airport TMI Status: Actual, Proposed or no value
- Chart data is automatically refreshed every 10 minutes
- Hover Capability
  - Hovering the cursor over a stacked bar will display the number of flights for that category
- Interactive Legend
  - The buttons in the Category Legend can be toggled on/off. Toggling a category off will cause it to not show in the stacked bars



# AADC – Arrivals Chart

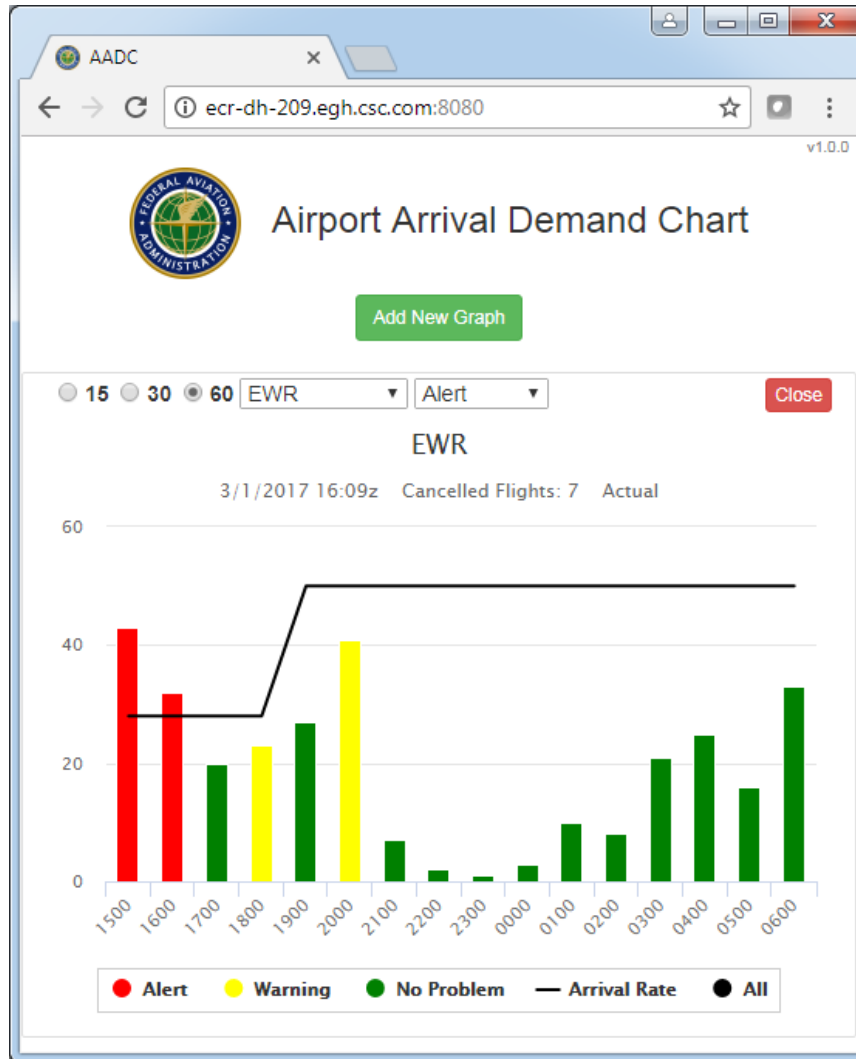


- Graph flights arriving to the airport according to the following status:
  - Past Dept Time
  - Departing
  - EDCT Issued
  - Irregular
  - Flight Active
  - Arrived





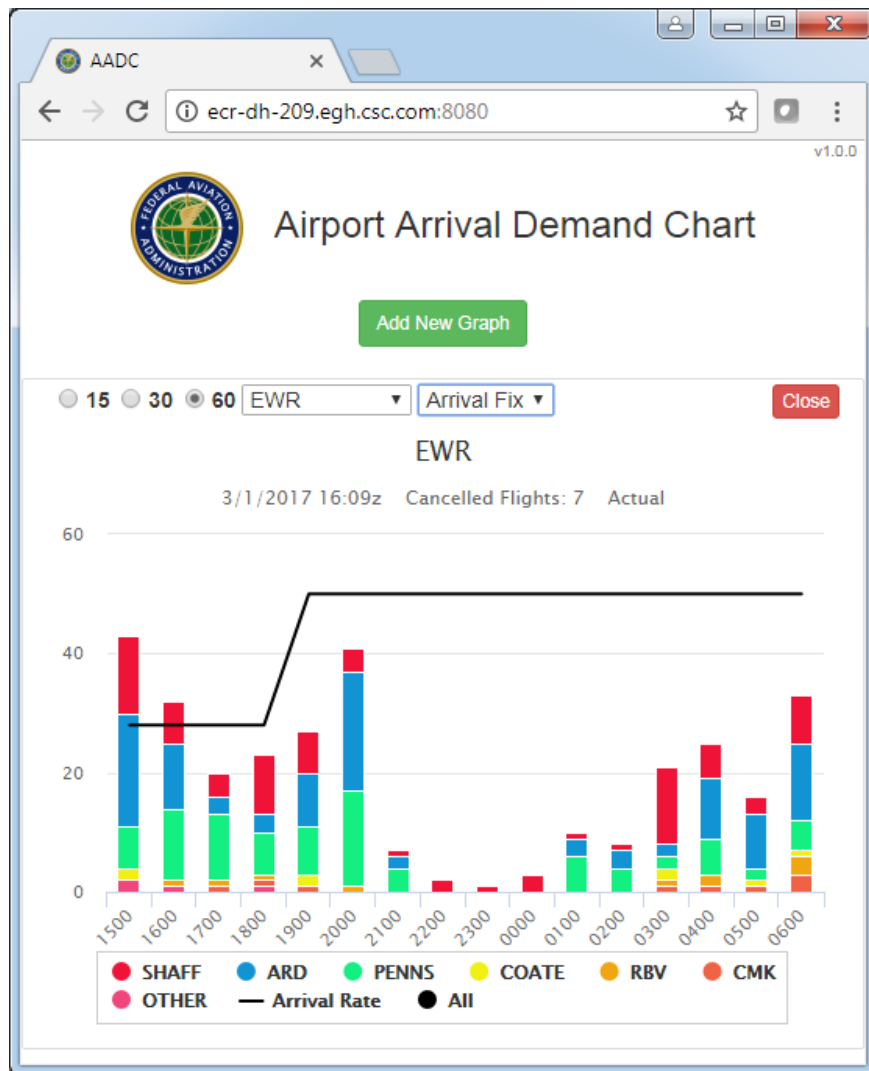
# AADC – Alert Chart



- Graph flights arriving to the airport according to the following alert status:
  - Alert
  - Warning
  - No Problem



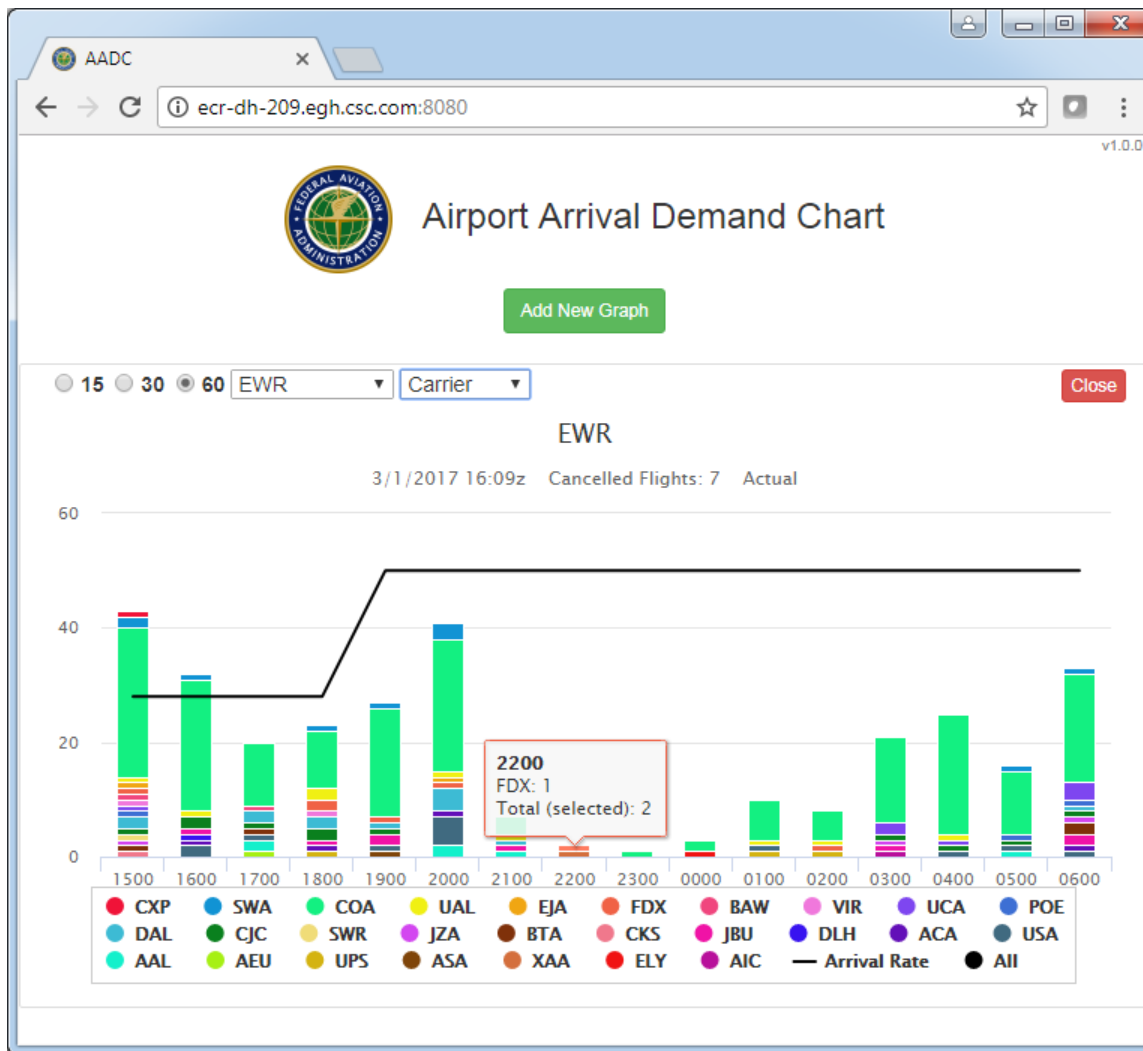
# AADC – Arrival Fix Chart



- Graph flights arriving to the airport based on their arrival fix
- As with the other charts, the arrival fixes listed in the graph legend can be toggled on/off



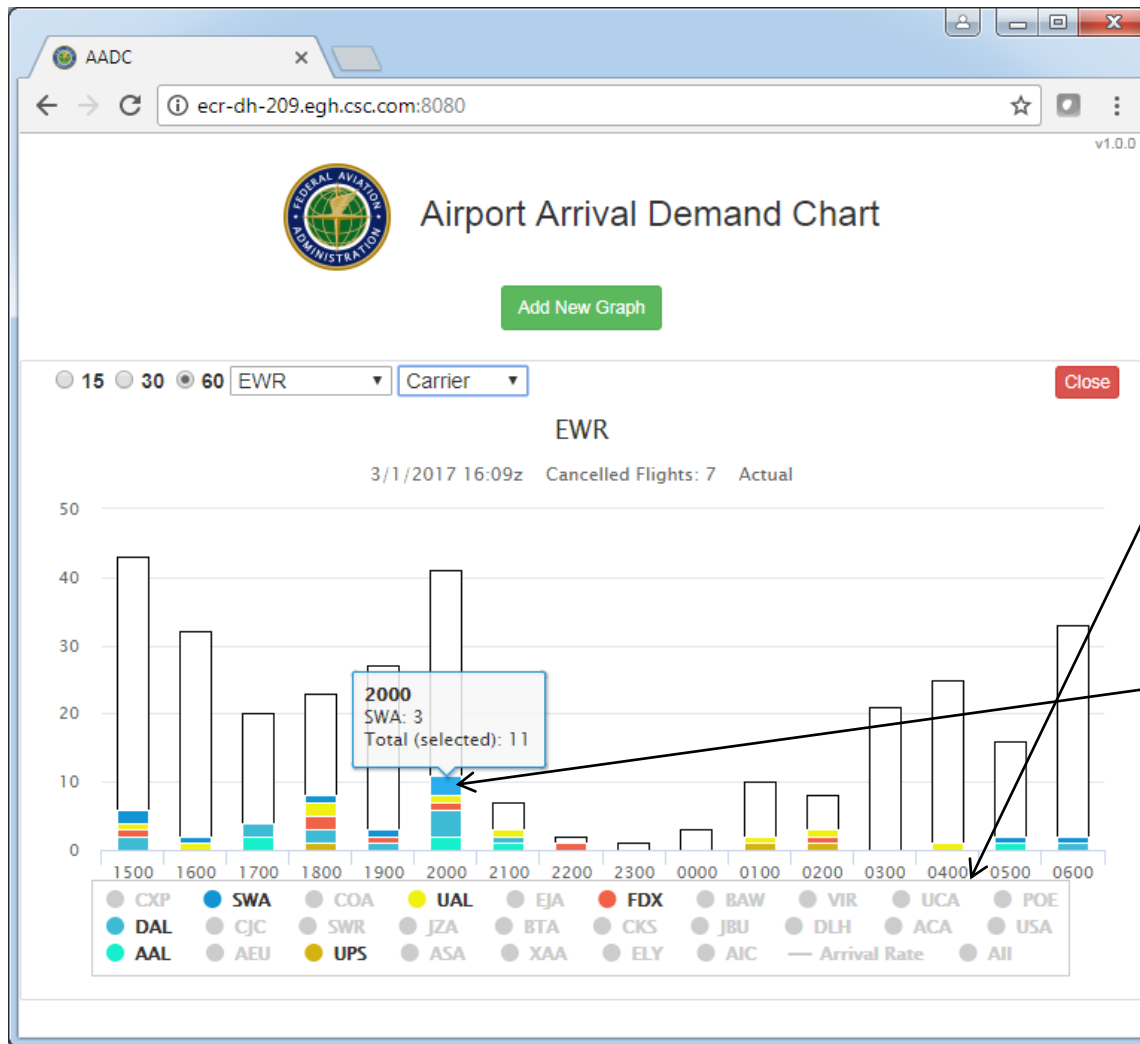
# AADC – Carrier Chart



- Graph flights arriving to the airport based on their carrier
- As with the other charts, the carriers listed in the graph legend can be toggled on/off



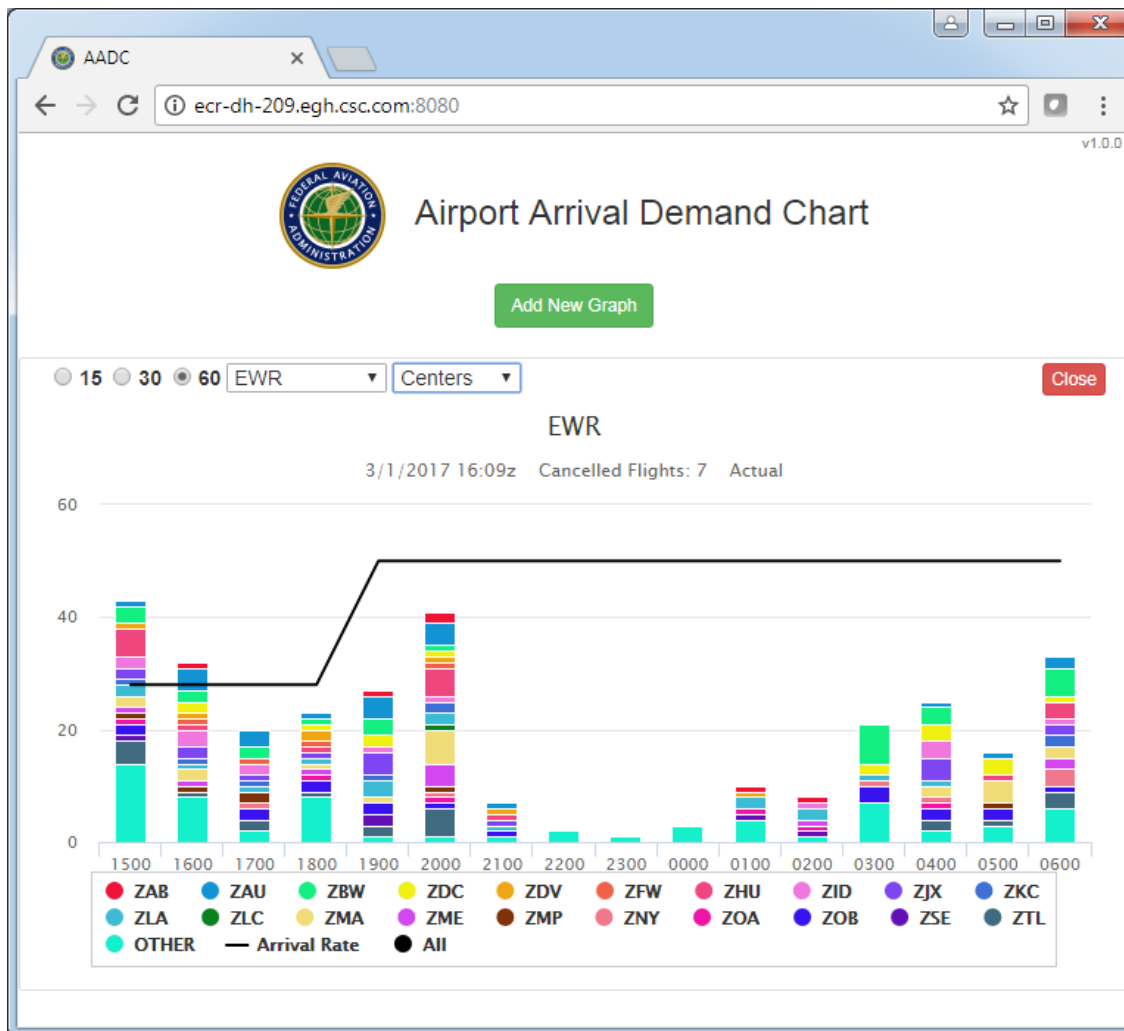
# AADC – Carrier Chart Illustrating Legend Values Toggled



- This Carrier Chart illustrates the values in the graph legend can be toggled on/off
- The stacked bar will show the colors for the values that are toggled on in the legend



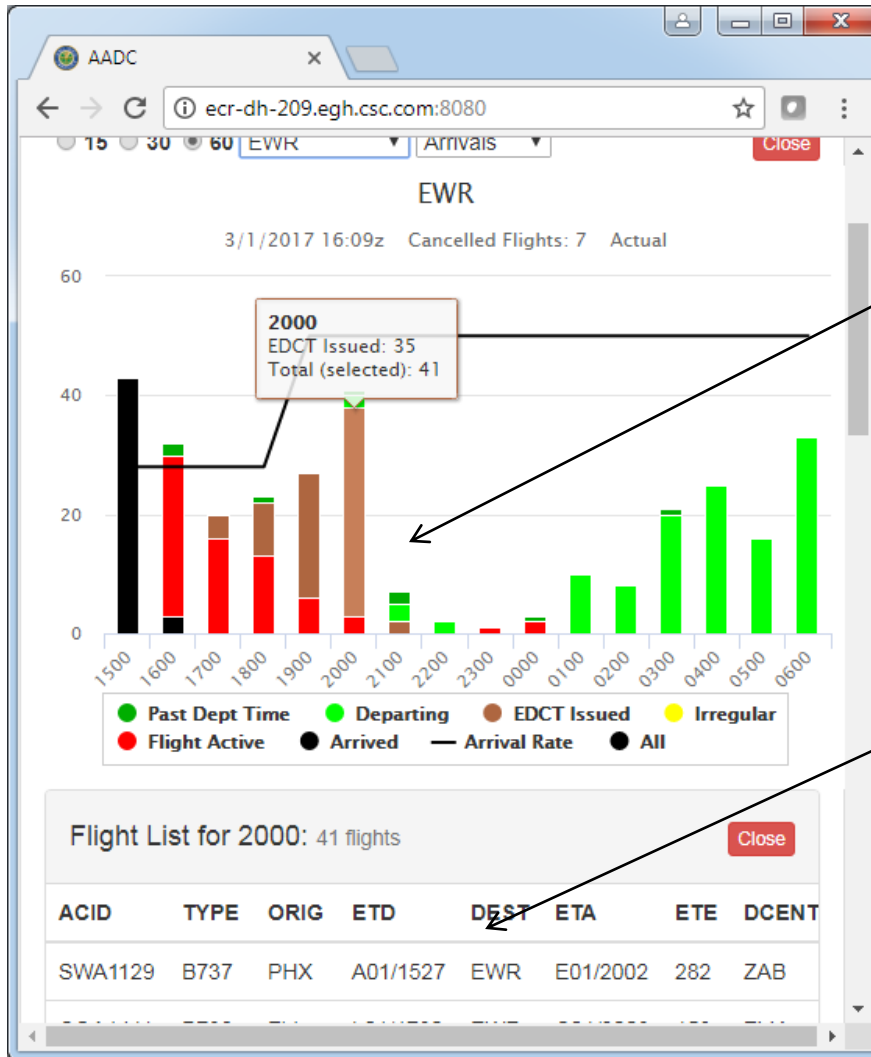
# AADC – Centers Chart



- Graph flights arriving to the airport based on their departure center
- As with the other charts, the departure centers listed in the graph legend can be toggled on/off



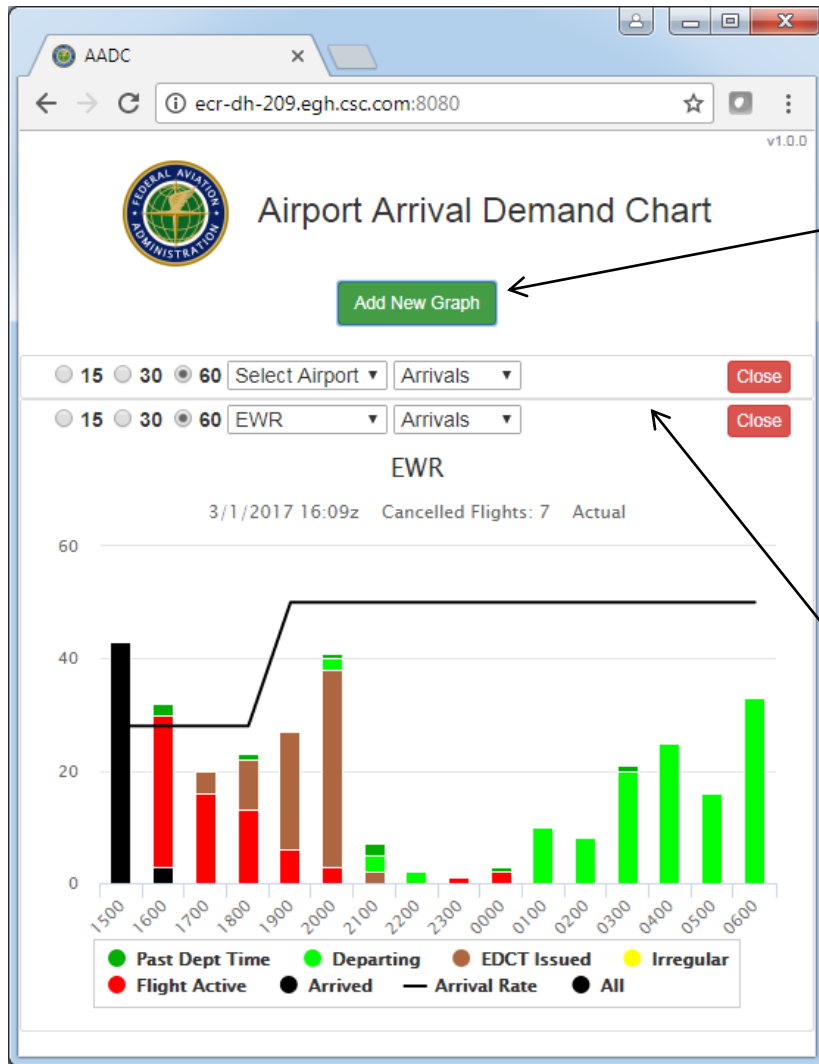
# AADC Chart w/ Flight List – Intranet (FAA) Only



- The Intranet (FAA) version has the capability to produce a flight list when the user clicks on a stacked bar
- The flight list will appear below the graph and contain all the flights for that time period regardless of what is selected in the Category Legend
- Flight list contains:
  - Aircraft Identifier (ACID)
  - Aircraft Type (TYPE)
  - Origin Airport (ORIG)
  - Estimated Time of Departure (ETD)
  - Destination Airport (DEST)
  - Estimated Time of Arrival (ETA)
  - Departure Center (DCENTER)



# AADC – Add New Graph Orientation



- The Add New Graph button will position the new chart above the existing chart (vertical orientation) or to the left of the existing chart (horizontal orientation) depending on your window/screen size
- A solid line will separate the chart areas



# AADC – Chart Orientation in Full-Screen Mode

- When the user's browser is in full-screen mode, which is at least 1200 pixels wide, the Chart Orientation buttons will become visible.
- The Chart Orientation buttons will allow the user to toggle between a vertical or horizontal tiling of the charts.





# Follow-up

**Contact TFMS Second Level Engineering for further information regarding the AADC Application:**

**Email: [9-AWA-ATCSCC-SLE-Support@faa.gov](mailto:9-AWA-ATCSCC-SLE-Support@faa.gov)**

**Phone: 540-422-4171**



# Briefing Complete

