

Transition of Legacy Weather Data Consumers to CSS-Wx/NWP

WARP/CIWS Users

Presented to: Friends and Partners in Aviation Weather (FPAW)

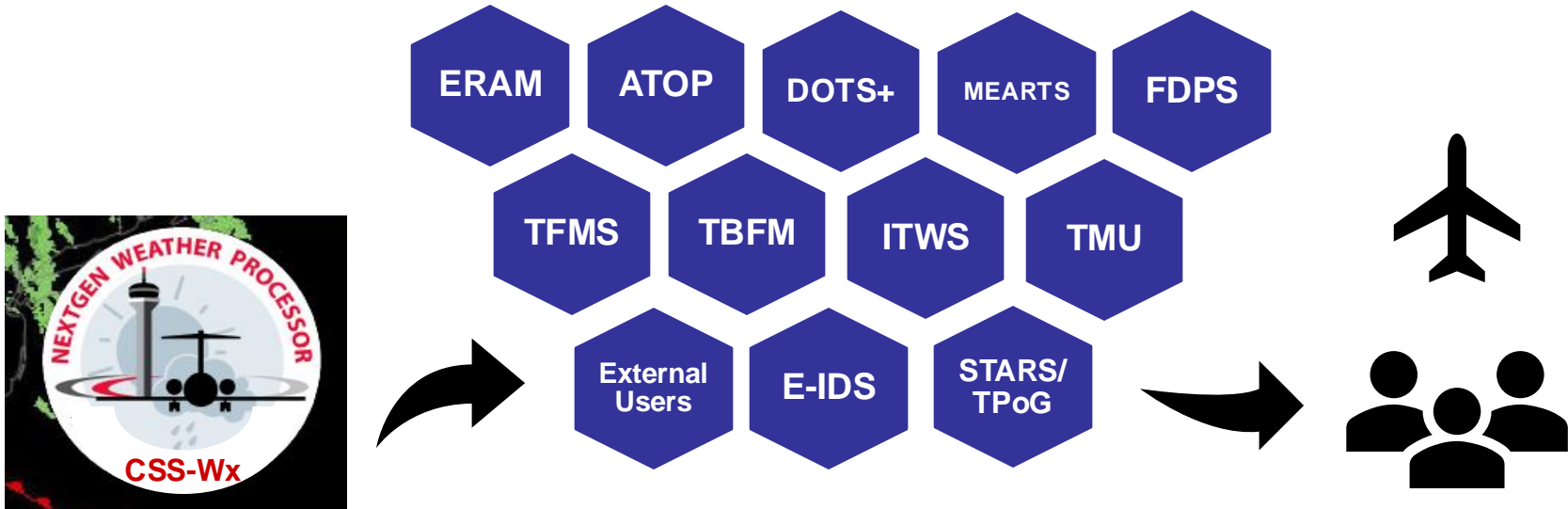
By: William N. Brown, FAA NextGen Wx Program Office

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**Federal Aviation
Administration**

CSS-Wx/NWP Consumers – Transition Scope



Transition All User Systems from Using WARP/CIWS to CSS-Wx in 2025
Replace All WARP/CIWS Displays with NWP AWDs through 2025
Provide CSS-Wx/NWP Products to New Users and SWIM
Modification of existing CDDS SWIM subscriptions

NAS Internal Transition to CSS-Wx

| System | # Sites | Interface with WARP/CIWS | Interface with CSS-Wx |
|--------------------|---------|---|--|
| ATOP | 3 | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information WARP Weather radar mosaics | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information NWP Weather radar mosaics |
| ERAM | 20 | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information WARP Weather radar mosaics | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information NWP Weather radar mosaics |
| DOTS+ | 4 | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information |
| Micro-EARTS | 4 | <ul style="list-style-type: none"> WARP Weather radar mosaics | <ul style="list-style-type: none"> NWP Weather radar mosaics |
| FDPS | 1 | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information |
| ITWS | 1 | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information and MDCRS | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information and MDCRS |
| TBFM | 1 | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information via SWIM | <ul style="list-style-type: none"> NOAA Gridded wind and temperature information via SWIM |
| TFMS | 2 | <ul style="list-style-type: none"> CIWS 0 – 2 Hr Predictive products | <ul style="list-style-type: none"> NWP 0 – 2 Hr Predictive products via SWIM |

Support for New/Existing SWIM Users

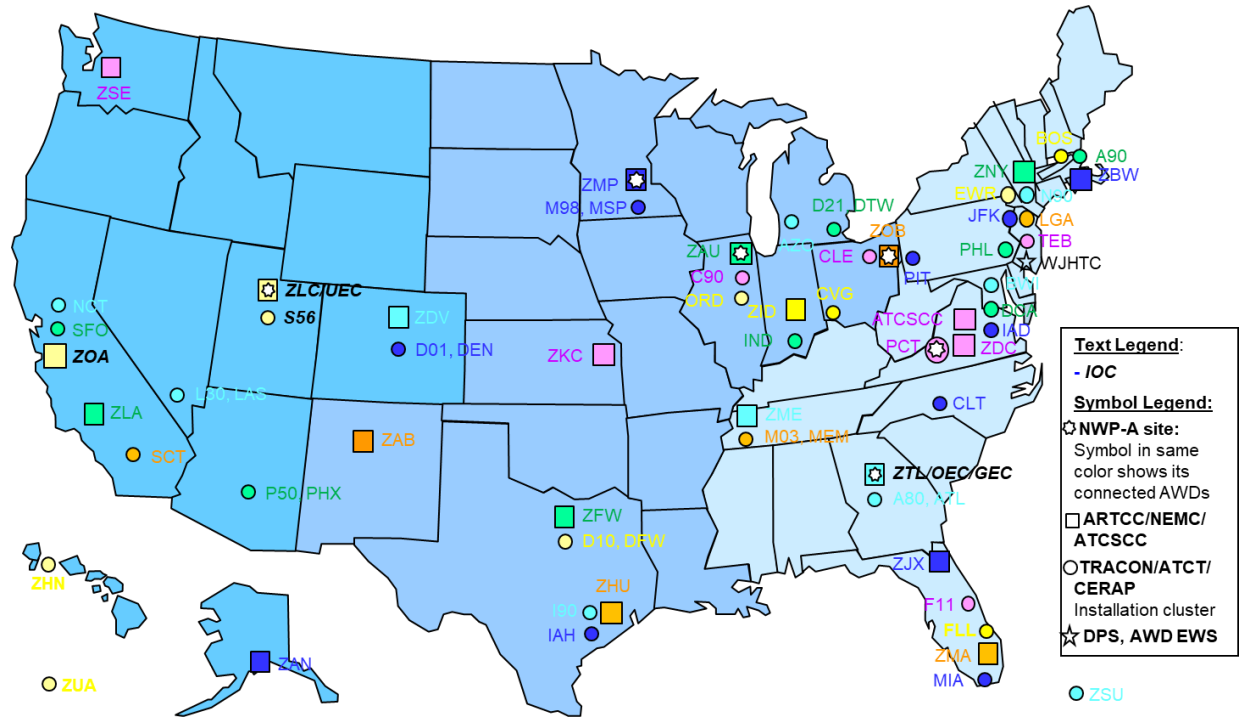
- **Existing subscribers of CIWS Digital Data Service (CDDS) on SWIM**
 - NWP expands upon the CONUS domain that is provided by CIWS
 - NWP groups some XML products in different manner than CIWS
 - Drives subscription and/or consumer software updates to process data
- **CIWS ATOM Feed**
 - Users will be transitioned to SWIM subscription
- **New SWIM Users**
 - Users will follow SWIM guidance for establishing connection to CSS-Wx data
 - Coordination with CSS-Wx also required
- **Establish notification process for data changes**
 - Outside factors may cause updates to data products over time
 - IWXXM schemas are managed by ICAO/WMO
 - FAA and NOAA collaborate to mitigate impact of changes to domestic aviation weather products

Aviation Weather Displays (AWD)

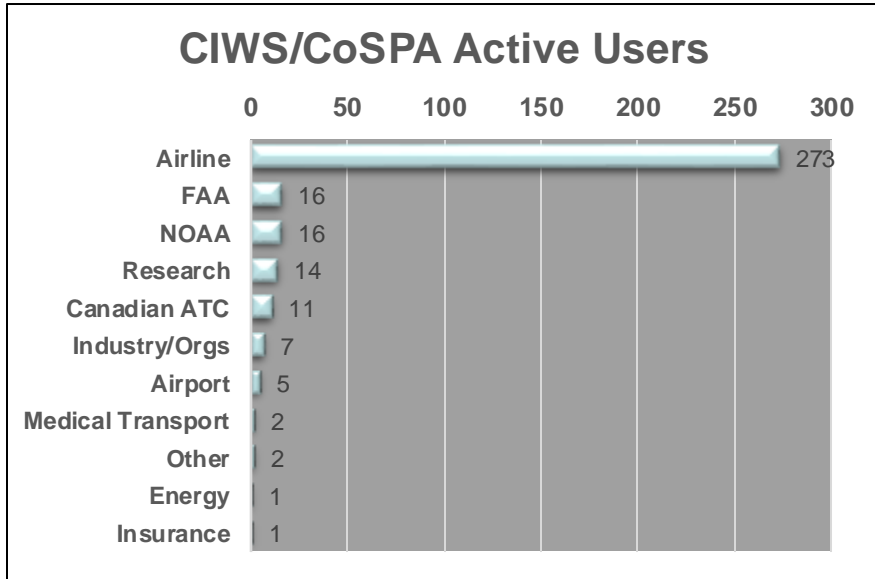
Replacing WARP Briefing Terminals (BT) and CIWS Situational Displays (SD)

- 6 distributed web servers will feed weather data to AWDs at 72 FAA facilities

AWD External Web Server replaces CIWS/CoSPA Web access



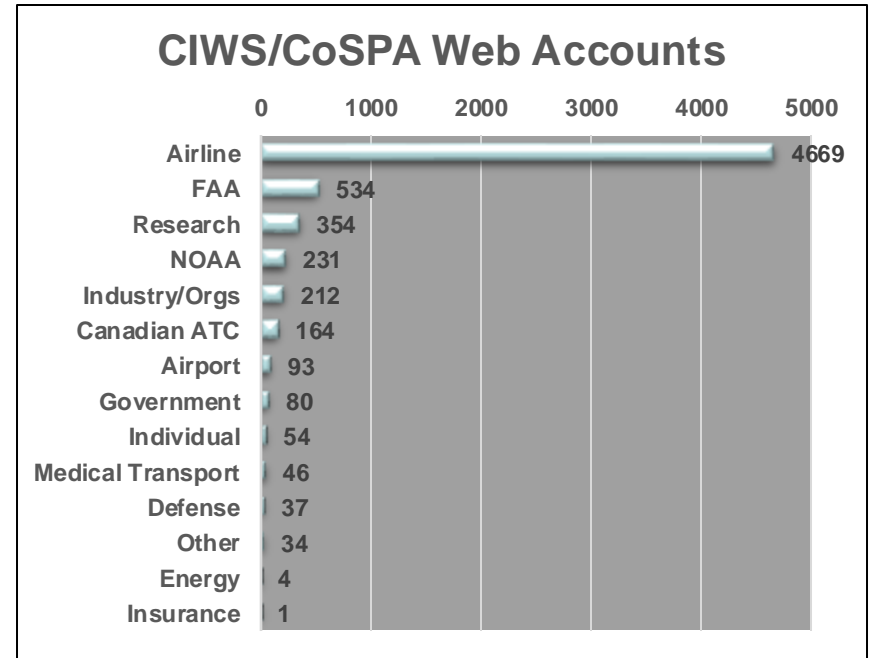
CIWS/CoSPA Web Users



- **Single reference point from January 2024**
 - 348 active users
 - Almost 80% of users were from airline operators (all sizes/types of airlines)
- **Users mostly operational decision-makers**
 - Highlights importance of transitioning existing users to NextGen Weather
- **Additional user statistics**
 - One-day maximum of 731 in July 2023
 - Average during convective season: 500 users

CIWS/CoSPA User Statistics

- **6500+ User Accounts**
 - Airline operators account for 70% of the registered users
 - More than 500 FAA accounts across disciplines (e.g., Air Traffic Control and Traffic Flow Management)
- **Wide-range of NAS stakeholders have access**
 - From airport operations to aviation industry and organizations and NOAA CWSU and AWC users
 - Also includes domestic and international government organizations, Canadian air traffic control, Department of Defense and medical transport entities
 - Even a number of individual aviation professionals



Conclusion



Year of the FAA Legacy Weather User Transition

Contacts:

Wil Brown (william.n.brown@faa.gov)

Doug Murphy (douglas.e.murphy@faa.gov)

Backup

