

Weather Community of Interest (COI) Update

Presented to: Friends and Partners of Aviation Weather

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Date: April 30, 2024



**Federal Aviation
Administration**

From Fall 2023 FPAW Meeting: *Proposed Spring 2024 FPAW Wx COI Briefing Topics*

- *Update on Wx COI reorganization*
- *Update on Wx COI Strategic Planning Team*
 - *FAA Weather Strategy development status*
- *Review of Open Problem Statements (Delayed until fall meeting)*
- *Update on formal relationship between FPAW and the FAA Wx COI*



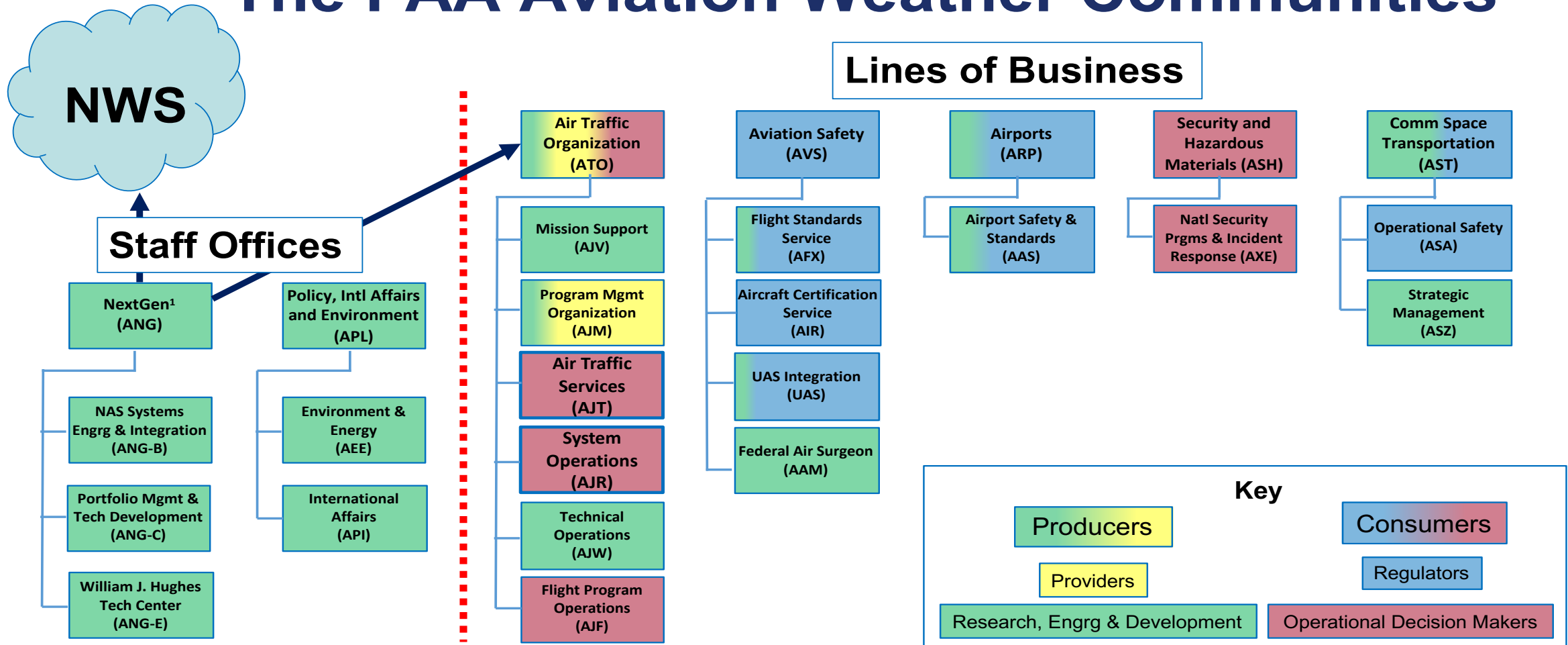
Today's Agenda

- Wx COI: Why?
- Wx COI: What?
- Wx COI: How? (By the Numbers)
- Wx COI: Since We Last Met
- *Wx COI: Reorganization Update*
- *Wx COI: Strategic Planning Team Update*
 - *FAA Weather Strategy development status*
- ~~*Open Problem Statements: A Review*~~
- *Wx COI and FPAW: Update on Formal Relationship*
- Discussion
- Proposed Fall 2024 FPAW Wx COI Topics



Wx COI: *Why?*

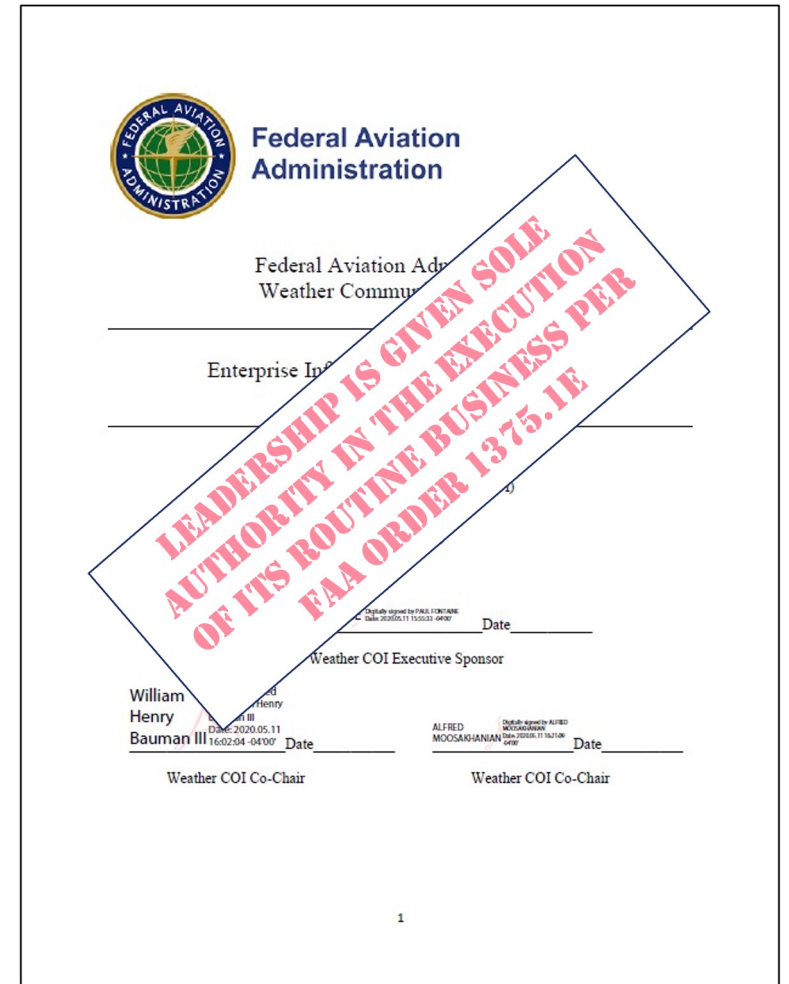
The FAA Aviation Weather Communities



¹The Assistant Administrator – NextGen is the ICAO U.S. Met Authority

Wx COI: *What?*

- Formal FAA body (Order 1375.1F), with Executive Sponsor, Co-Chairs and Secretariat/Contract Support
- 50-60 persons from across the FAA attend the near-monthly plenary meetings
- 75+ persons from the FAA, other government agencies, FFRDCs and FAA contractors actively participate in Wx COI working groups
- Successfully and effectively promotes collaboration, communication, and sharing of weather information among FAA organizations, and with other Federal agencies, industry, and international partners
- Resolves and/or mitigates mission-specific, data and information sharing challenges across the weather enterprise
- Ensures appropriate access to, along with availability and consistency of, weather information
- Identifies and assimilates operational and business needs for weather information in the NAS



¹A Community of Interest (CoI) is a group of people whose goal is to further a common cause by sharing wisdom, knowledge, information, or data, and interactively pursuing informed courses of action.

Wx COI: *How? (By the Numbers)*

- First plenary meeting: **July 21, 2020**
- Number of plenary meetings since then: **37**
- Average number of participants/plenary meeting: **50-60**
- Number of Problem Statements submitted: **63**
- Number of SWATs created: **12**
- Number of SWATs currently active: **8 (plus 2 in hibernation, 2 disbanded)**
- Number of Problem Statements closed: **28**
- Number of briefings given by external organizations: **14** (ICAMS, NOAA/NWS x 2, MIT LL, NCAR, A4A, AOPA, MITRE, ALPA, NBAA, ADF, VFS, NATCA, Spaceport America)
- Number of briefings given by internal organizations: **11** (Info-Centric NAS [ANG-3], PS Lifecycle [Wind SWAT], Analyzed Weather [Standards & Policy SWAT], SFO MSFS [ANG-C6], Flight Service [AJR-B1], PIREP Research [CAMI], PADWOS [Wind SWAT], ONA Intake Process [Standards and Policy SWAT], Performance Based Weather [AFS], Digital Twins Concept for Weather [ANG-B1], WMSCR [AJM-33])



Wx COI: *Since We Last Met...*

- November 2023
 - Briefing from Kimberly Gill (ANG-B1) titled “FAA Digital Twins Concept for Weather”
 - One new Problem Statement (PS) (Icing Terminology Differences) proposed, SWAT assignment TBD
- January 2024
 - Briefing from Dr. Frank Gallagher/NOAA and Jessica Schultz/NOAA titled “NOAA Radar Next Program Initial Requirements”
 - Formation of Radar Next SWAT, responsible to provide FAA User Needs to NOAA Radar Next team, co-leads identified (Brandon Smith/ANG-C6, Alex Ewings/AJV-S2), additional participants being identified
 - Two existing Problem Statements (PS 26 and PS 10) merged into one (PS 10), new Icing Terminology Differences PS 64 assigned to the Winter Weather/Icing SWAT



Wx COI: *Since We Last Met...*

- February 2024

- Briefing from Scott McLaughlin/Executive Director, NM Spaceport Authority on “U.S. Commercial Spaceports and Weather – A New Need”
- Formation of Strategic Planning Team, responsible to provide agency-wide inputs on a variety of future weather issues, including to funded FAA Weather Strategic Plan project, Michelle Witcher/ANG-C64 (a) will lead both the SPT and the project
- One Problem Statement (PS 59, JAWS) closed
- One SWAT (Wind Forecast) put into hibernation due to no active Problem Statements

- April 2024

- Briefing from Stewart Stepney/AJM-333 titled “WMSCR Deep Dive Analysis and Unplanned Outage Risks”
- Update on status of Strategic Planning Team
- One new Problem Statement proposed (Radar Next)



Update: *Wx COI Reorganization*

- Made a minor shift in temporal scope, from totally near-term to near-term through far-term
 - Near-Term: Most SWATs, working Problem Statements anchored in today's problems
 - Far-Term: SPT, helping develop an FAA Weather Strategic Plan, and the Radar Next SWAT, providing user needs for the NEXRAD replacement



Update: *Wx COI SPT*

- SPT officially stood up in early CY2024
- Michelle Witcher/AJV-S on detail to ANG-C64 is the lead
- Several positions remain to be filled
- Expect first meeting in coming weeks

At the same time...

- MITRE FAA Weather Strategy project kicked off
- Michelle Witcher/AJV-S on detail to ANG-C64 is the project lead
- A slide deck to be used when engaging FAA Lines of Business and Staff Offices is being developed, with first conversations expected to take place shortly



Update: *Setting up a Formal Relationship between FPAW and the Wx COI*

- Initial thought was to develop an FAA order comparable to the one used by the FAA AIPS COI (FAA Order 7910.5E) and external organizations (i.e., Charting Group and Instrument Procedures Group)
- Development of an FAA Order is non-trivial
- Further conversations have been initiated, with the hope that adding relevant language to the Charter of the Wx COI will be all that is needed to establish a formal relationship between it and FPAW





QUESTIONS

