

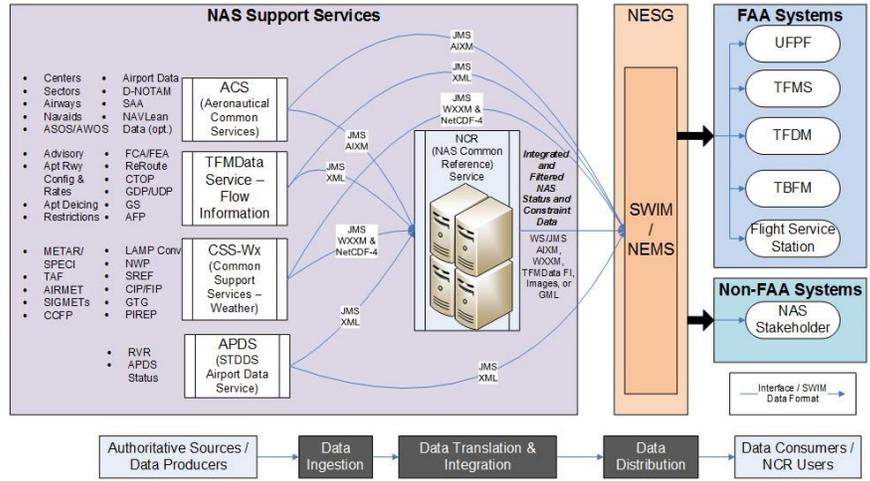
# NAS Common Reference (NCR)

**NCR advances SWIM services through an OGC-compliant enterprise-level service providing integrated AIXM and WXXM data.**



## NCR Capabilities

- Enterprise-level NAS SWIM service available to both NAS and non-NAS systems
- Integrates cross-domain dynamic NAS status and constraint AIXM/WXXM data across various SWIM data producers
- Provides consistent spatially and temporally correlated NAS information relevant to any route of flight or geometry
- Services individual requests or publishes updates as NAS status and constraint data change
- Rich and flexible filtering capabilities so that only the desired data is received



## Benefits

- Reduces cost for developing and maintaining capabilities required by NAS systems for requesting, providing, and parsing data to/from sources/clients
- Common situational awareness across FAA systems, ANSPs, and NAS users
- Integration of data currently spread across various systems or not available digitally
- Reduces time required for ANSPs to collect data relevant to their decision making, improving efficiency

*NCR provides cross-domain NAS constraints relevant to a trajectory*

- FAA users can quickly integrate new information into their strategic plans as new relevant data is automatically “pushed” to their systems
- Improves usage of resources and bandwidth by (1) reducing a need for point-to-point communications between systems, and (2) sending filtered data (only what is needed, not all data)

