

Air Force Life Cycle Management Center

Integrity - Service - Excellence

AF Wx Data Distribution Capabilities: Update



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Modes

- **Subscription – data push**
 - Past/Current – Weather Product Management & Distribution System (WPMDS) / Consolidated Dissemination Capability (CDC)
 - Transitioning to Moving Weather
 - Initial Operating Capability exists today
 - Supports FTP, SFTP, and FTPS
 - Requires work with distribution team to setup subscriptions
 - No Web Services “subscription-drop” capabilities like JMBL & CDC
 - Full transition schedule TBD – Transition complete NLT Jan 18
- **Web Services – data pull**
 - Past/Current – Joint METOC Broker Language (JMBL)
 - Transitioning to Open Geospatial Consortium (OGC) services
 - Full suite Web Map Services (WMS) & some Web Feature Services (WFS) available today
 - Web Coverage Services (WCS), Web Processing Services (WPS) for NWP-based bulletins, & full WFS in FY16-17
 - Mission Impact Services using WPS FY16-17



Human-to-Machine Distribution Modes



- **Web Page – interactive data**
 - **Current – Air Force Weather Web Services (AFW-WEBS)**
 - Uses same OGC web services on back-end
 - Build specialized KML/KMZ packages
 - Content integrated into custom AFW-WEBS GIS viewer
 - **Future – AFW-WEBS 3.0**
 - Continue to enhance existing features
 - Focus on improved performance
 - Full operational capability **TBD**
- **Mobile Apps – interactive data**
 - **Current – Limited capability through AFW-WEBS**
 - **Future – Full functionality**
 - Uses same OGC web services on back-end
 - Support for iOS and Android devices
 - Multi-use case driven – pilots, base operations, etc.



COPC Impacts



U.S. AIR FORCE

AFLCMC... Providing the Warfighter's Edge

- **Only impact to COPC through subscription mechanism**
- **Moving Weather transition schedule:**
 - Full schedule TBD based upon task order award Jan 16
 - Initial plan:
 - FNMOC/NAVO transition complete NLT Jan 17
 - NOAA transition complete NLT Oct 17
 - **Adjustments possible given other COPC network changes**
- **Impacts to COPC partners:**
 - Minimal impact anticipated
 - Will fully test new connection before cutover
 - 1 minutes max outage during IP cutover
 - Same port and protocol
 - **No direct benefit to COPC**
 - Impact to 557 WW
 - Lowers Total Cost of Ownership
 - » Eliminates use of expensive IBM hardware
 - » Eliminates use/maintenance of unique GOTS