

NWS OFFICE OF DISSEMINATION

Technical Update for Partners Meeting 11 January, 2018

Dissemination-Related Metrics

- IDP Uptime Metric: February - December 2017: 99.4%
- IDP TGFTP/FTPFRD/RADAR Metric: February - December 2017: 99.8%
- NWR Transmitter availability: Jan - November 2017: 99.5% (target 96%)
- weather.gov % of 404 error codes: April - December 2017: 1.6% (target 1%)

Note: Integrated Dissemination Program (IDP) refers to the systems hosted in College Park, MD and Boulder, CO

Related Outages

- Boulder network outage: August 11, 2017
 - Around 2pm ET on 8/11, the IDP Boulder system became non-responsive due to an error configuring the network switches.
 - Response: Applications running on the IDP system in Boulder were failed over to College Park. The following impacts were experienced:
 - TGFTP - some data stopped updating for 60 minutes
 - NOMADS - 43 minute outage
 - MADIS - 2 hours 11 minutes
 - RADAR2 - no impact
 - RADAR3 - 22 minute outage
 - NLETS - 90 minutes
 - IRIS/iNWS - 40 minute outage
 - EDIS/FTPMail - 40 minute outage
- Internet outage: October 3, 2017
 - Around 10am ET on 10/3, the NWS network in College Park experienced issues related to an OS upgrade. The issues resulted in internet outages at most NCEP Centers (CPC, WPC, OPC, SPC, and NHC), IDP services hosted on the College Park system were impacted, and the AviationWeather.gov website was down.
 - Response: Applications running on the IDP system (MADIS, MRMS, IRIS, NOS Chart Tile and VLab) were failed over to the secondary system in Boulder by 2pm ET. All other IDP services were not affected longer than 15 minutes.
 - The outage did not affect the transmission of watches, warnings, and advisories or the data provided via NOMADS, TGFTP, RADAR2, RADAR3, and FTPFRD.
- IDP services outage: November 28, 2017
 - Around 5pm ET on 11/28, customers who access FTPFRD, MADIS, MAG, and NOMADS applications via the IDP system experienced connectivity issues or connection failures for one hour.
- Weather.gov - Content Management System (CMS) slowdown (non-IDP): January 1, 2018
 - Around 11am ET on 1/1/18, processing by the CMS slowed significantly when it began to receive far more data and larger files than it was designed to handle.

The issue resulted in a delay to many WFO's Weather Story posts. Some offices reported a complete failure to upload anything.

- Response: as of 1/2/18 operational support continues to investigate.

Dissemination-related services to note:

- Multiple Flash Flood warnings issued to public when already flooded
- The term "Fire Warning" has various meanings
- Increased use of Social Media provided another mode of communication during the tropical events
- NOAA Weather Radio continued to function in Puerto Rico
- Inconsistencies in product availability between dissemination systems (nowCOAST, www.weather.gov)
- Failover procedures between IDP sites need to be further improved to lessen impacts to customers

Dissemination-Related Updates Since August Partners Meeting

- Upgraded the IDP NetApps in Boulder and College Park
- 114 NWS Offices across CONUS have been upgraded with increased bandwidth capacity. Only 11 NWS Offices remain to be upgraded with increased bandwidth - planned completion FY18Q3.
- Hourly precipitation data available via IDP-GIS services
- MRMS v11.5 currently in 30-day test
 - Where to find the parallel v11.5 data: LDM: MRMS test data will be available via Idm from the BLDR Idmoult vm: `vm-blldr-mrms-ldmoult`
 - If you would like to aid in validation of MRMS v11.5 Please contact the IDP team to get put in the allow list for Idm: ncep.list.idp_support@noaa.gov
 - MRMS Web data: Grib2 data from MRMS 11.5 BLDR TEST will be available on the MRMS test website: <http://mrmst.ncep.noaa.gov/data/>

Common Alerting Protocol (CAP) Status

- NWS is working to resolve the following newly discovered issues with v1.2: missing alerts, alerts not posting when still in effect, older expired alerts become active
- Retirement of v1.1 pushed out to March 1, 2018 and will not occur until issues with v1.2 are resolved.

Planned for the future

- New Products: Snow Squall, Dust Storm Warnings Winter 2017-18
- Migrate NDFD XML and GIS services into IDP
- EMWIN transition and implementation to IDP in January 2018
- NWS Radar Integrated Display with Geospatial Elements 2 (RIDGE 2) implementation on IDP in June 2018
- www.weather.gov hosted on IDP Boulder in July 2018
- www.aviationweather.gov hosted on IDP Boulder in September 2018