U.S. NATIONAL WEATHER SERVICE

Enterprise EMWIN FTP
Service Description

Version 1.1

Document Control

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Enterprise EMWIN FTP Service Description

1. **OVERVIEW**. The "enterprise Emergency Managers Weather Information Network" (eEMWIN) File Transfer Protocol (FTP) service is an anonymous FTP service operated by the United States (US) National Weather Service (NWS) National Centers for Environmental Prediction (NCEP) Central Operations (NCO). The files on the eEMWIN FTP server provide time segmented archived collections of weather, water and climate information which has been broadcast on the EMWIN segment of the National Environmental Satellite and Information Service (NESDIS) Geostationary Operational Environmental Satellite (GOES) East and West systems. The files on the FTP server are updated/overwritten at specified time intervals, and provide users the option of selecting the most appropriate range of file quantities and latency, ranging from 2-minute archive to a 3-hour archive. The files are in a compressed ZIP file format and contain either text or binary (image) formatted files.

2. **FILE RETRIEVAL**.

a. The eEMWIN FTP service is a file pull service in that data is received only in response to remote users actively interacting with the archive files. Downloading files can be accomplished using a web browser Graphical User Interface (GUI) or an FTP command line interface. Commercial applications or scripts which automate either of these methods may be used as well.

b. The files on the FTP server are available over the public Internet. The anonymous FTP service does not require a user account or any special passwords to access and download the archived files from the server, or to subsequently extract the individual text or binary files from the archive files on the remote user platform.

c. The eEMWIN FTP file server is accessible at the following URL:

GOES-R FTP Server: http://tgftp.nws.noaa.gov/SL.us008001/CU.EMWIN/DF.xt/DC.gsatR/

d. The Government does not furnish software to users in support of the eEMWIN FTP service. Customers are responsible for providing all the resources necessary to acquire the EMWIN archive files over the public Internet, un-ZIP the archived files, and display or read the individual files.

3. **ARCHIVE FILE DESCRIPTION AND PERSISTENCE**.

   a. The archive files available on the eEMWIN FTP server are identified and described in following table:

Archive	Description	Update / Overwrite Interval (*persistence*)
txtmin02.zip	Text Files < 2 minutes old	Created every 2 minutes
txtmin06.zip	Text Files < 6 minutes old	Created every 6 minutes
txtmin20.zip	Text Files < 20 minutes old	Created every 20 minutes
txthrs01.zip	Text Files < 1 hour old	Created every hour
txthrs03.zip	Text Files < 3 hours old	Created every hour*
imgmin15.zip	Image Files < 15 minutes old	Created every 15 minutes
imghrs01.zip	Image Files < 1 hour old	Created every hour
imghrs03.zip	Image Files < 3 hours old	Created every hour*
Notes: * - The three hour archive is created every hour. The process removes the oldest one-hour block of files, retains the more recent two-hour block of files, and adds a new one-hour block of files to the archive.		

b. No more than 8 archive files as listed in the table above should be present on the FTP service at any point in time. Archive files are created and then saved to the FTP server at or near the top of the hour, and at the specified time intervals thereafter. The file creation date and time will be available on the FTP server for visual and script reference. Once an archive file on the FTP server is overwritten, the overwritten file is no longer available.

5. **FTP SERVICE AVAILABILITY**. The eEMWIN FTP service is available 24 hours a day, 7 days a week, under normal operating conditions. Any scheduled activities which may impact operations will normally be announced by the NWS in advance of the potential service interruption. The NWS operates the FTP services from two locations: College Park, MD, and Boulder, CO. In the event of a scheduled or unscheduled outage at the active site, services will transition to the backup site. Service may be temporarily interrupted during service transition.

6. **USER RULES OF BEHAVIOR**. See: http://tgftp.nws.noaa.gov/readme.txt

7. **FTP CONNECTION AND COMMAND RESTRICTIONS**. See: http://tgftp.nws.noaa.gov/readme.txt

8. **ISSUE RESOLUTION**. See: http://tgftp.nws.noaa.gov/readme.txt

Appendix A: Abbreviations

Abbreviation	Explanation
eEMWIN	Enterprise EMWIN
EMWIN	Emergency Managers Weather Information Network
FTP	File Transfer Protocol
GOES	Geostationary Operational Environmental Satellite
GUI	Graphical User Interface
kbps	kilo-bits per second
NCEP	National Centers for Environmental Prediction
NCO	NCEP Central Operations
NESDIS	National Environmental Satellite and Information Service
US	United Sates of America
ZIP	Archive file format that supports lossless data compression

Appendix B: Operational Transaction/Repository Metrics

Operational and Transaction metrics (as of 09/02/2016) are based on current EMWIN production system (Silver Spring TG Environment) values.

Metric	Current Value	Expected Range
Connections Per Day	1224 / day	[1100 - 2000] / day
Average Interval Between Connections	Every 70 Seconds	[30 - 90] Seconds
Average Download Size	215 KB	[100KB - 6 MB] / Download
Average Repository(.zip) Size	1.1 MB	[1 - 4] MB