

# Weather Message

## Release Notes V4.0

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Version 4.0 released 1/11/2014

### All Programs

1. All programs the TCP/IP components were updated to the latest versions.
2. Added the Windows 8 GUID to the application manifest.

### Weather Message Server

1. Now removes connection entries from in the internal connection table, instead of resetting the values.
2. The variables \$Hazard\$, \$Source\$, and \$Impact\$ are now populated with data from messages containing those variables.
3. The \$Location\$ variable will now match a line that starts with "\*" and ends with "NEAR...". This will populate from a line that reads "\* This dangerous storm will be near...".
4. Now displays status messages from the purge subsystem.
5. Changes for Twitter API upgrades.
6. Corrected an issue with the \$AreasAffected\$ and \$Locations\$ variable. The variables now pickup the information after the "..." characters.
7. The variable \$Tonight\$ will now be populated when ".Rest Of Tonight" is encountered.
8. The variable \$Today\$ will now be populated with ".Rest of Today" is encountered.
9. Changed the operation of the \$Hazard\$, \$Source\$ and \$Impact\$ variables.
10. Now decodes the "WIND..." and "HAIL..." tags from the NWS Central Region.
11. Adjusted the \$Hazard\$, \$Source\$ and \$Impact\$ short message variables to work with the SVS message.
12. Additional adjustments for the \$Hazard\$, \$Source\$ and \$Impact\$ short message variables to work with the SVS message.
13. Corrected an issue that caused the HVTEC variables to not be populated in all cases.
14. Changed the Twitter routines to use https instead of http.
15. Changes to deal with a "splitter distance" error.
16. Corrected an Argument Out Of Range exception for products that contain a malformed "WIND..." line.
17. Changed the file sort routine to use last write date and time.
18. If an error occurs sending Email, Fax, or Page messages, the label associated for the associated server will change to the color red. This will give a visual indication of an error. Added a "Clear Errors" menu option to reset the error indication.

## Weather Message Setup

1. The Paging Service setup for HTTP Get and HTTP Post now support SSL on port 443.
2. The HTTP Post and HTTP Get options now support the variable \$AllPins\$. Using this variable will cause the program to send one http post or http get. The \$AllPins\$ variable will be populated with the all of the pin values separated by commas.
3. Corrected an issue that caused the setup program to not honor the maximum number alarm and email group entries that were purchased.
4. Added short message variables \$Tornado\$, and \$TornadoThreat\$. The existing \$HailSize\$ variable is populated from the HAIL tag. These are populated by TOR and SVR products issued by select WFOs in the central region.
5. Minor changes to the Facebook authorization code.
6. The Support Setup, Option's FTP Ingest tab now has fields to record your EMWIN FTP Server User Name and Password. The NWS now requires registration to access the NWS Server. Send an email, with your TCP/IP address, to [robert.wagner@noaa.gov](mailto:robert.wagner@noaa.gov) to get your user name and password.
7. Changes to the Facebook authorization code. The program will now ask Facebook for a long lived access token. The token will expire in 60 days. Facebook must be reauthorized every 60 days. This is a Facebook requirement.
8. Changed WxWords text box to no longer word wrap the words. Added a horizontal scroll bar.
9. Changes to WxWords setup that greatly improves the load time and performance.
10. The Paging Services setup for http (post and get) will no longer allow https:// to be entered in the address field.
11. Added auditing of changes in the system. The audit entries show add, changes and deletes of key operating parameters.
12. Added support for VTEC code BH – Beach Hazard. This VTEC code is now being used in CFW messages. It is coded as Beach Hazard Statement.
13. Added a "Send Support Files" option under the Help menu. This will email support files to Weather Message. Use this option when instructed by Weather Message Support.
14. Now backs up the xml configuration files when clicking Save. If you make a serious error, you can restore the original configuration by copying the \*.bak files to \*.xml.
15. The Daily Log option now defaults to checked for new installations.
16. Updated the County\_Z.dat and County\_FZ\_Z.dat with the latest zones.

## WxPost

1. Changed the HTTP Get and Post routines to explicitly set the port.
2. The HTTP Get and Post routines will now accept status 201 as a valid acknowledgement.
3. Now handles invalid entries in the WxWords.dat file. Lines in error are now recorded in the debug files.
4. Changes to allow post SOAP messages using http post.

5. Corrected an issue that caused an argument out of range exception when resending a graphic email.

## WxEMWIN

1. Corrected a buffer overflow issue for the software demodulator and TCP/IP ingest routines.
2. The Internet ingest routine now counts uncompressible blocks in the error count.
3. The Internet ingest routine will now disconnect servers that have an error rate greater than 40 percent. This will not normally happen, but a malfunctioning server could cause a high error rate.
4. Changed the WX-14 serial processing routine to address a possible error condition.
5. Changes to the WX-14 serial receive routine to prevent a buffer overflow.

## WxPort

1. Corrected an issue that caused the program to not receive data when there are multiple Ethernet interfaces.
2. Added support for the new POLARSAT channel. The screen will have to be resized to see the new fields.
3. Added code to catch an error when an incorrect interface address is entered. The setup window will now stop, reset the interface address, and restart the active ingest ports.
4. Added code to insure a file name is generated. If a file name cannot be generated, it is set to UNKNOWN.

## WxMcli

1. Added "Text Product Purge Time" to setup. This field defines the number of minutes to keep expired products in the alarm grid. The default is 15 minutes.
2. The program will now remember if the image viewers are open when the program is stopped. If they were opened, they will be reopened when the program is restarted.
3. The Request List form will now open the main form if the request list tab is selected and the main form is minimized.

## WxMap

1. Addressed an issue when saving the map image on a machine not set to 96 DPI.
2. Upgraded the mapping component from version 9 to version 10.
3. Added the ability to add up to 10 optional layers. The first 3 are defined in WxMap. The other 7 can be configured in the WxMap.ini file by copying an existing layer and renaming it in the [MapLayer] section.
4. Updated the County Fips layer, County Zone layer, and Marine Zone layer. Users will need to download the MapLayer update from the website. These layers were

carefully evaluated to correct issues that caused some counties not to paint properly.

## WxLoader

1. No longer displays a pop-up box when communications errors occur. They are logged in the log files.
2. Added an Auto Refresh option to the Program Options tab in setup. This option, when checked, will cause the program to request the current products when it connects or reconnects to Weather Message.

## WxWire

1. Corrected a null object reference when the program encountered a one line file.