

McIDAS-X 2016.1 Programmer Notes

This file lists some of the software and structural changes included in McIDAS-X version 2016.1 that are most likely to affect your locally-developed McIDAS code.

(See http://www.ssec.wisc.edu/mcidas/software/x/fastrack2016.1_changes.txt for the complete list of code changes included in McIDAS-X 2016.1.)

SSEC recommends that you always compile and link all local code after installing each new version of McIDAS-X. Use the information below to determine if you should make additional changes or accommodations to your local code.

- This release includes servers, calibration and navigation modules for GOES-R netCDF formatted data. The servers are limited to data from the Advance Baseline Imager (ABI). New modules include:

kbxabin.dlm abinadir.cp abinaget.cp nvxabin.dlm

Existing modules requiring updates include:

**dsserve.pgm mcgetscantime.for SATBAND CORE.SAT
makefile**

- This release includes servers and calibration modules for HRIT data sent via HimawariCast. Both segmented and combined HRIT files that follow JMA standards can be read by the servers. Data for Himawari-8 from HimawariCast have been assigned satellite sensor (SS) number 286. New modules include:

**kbxwarc.dlm warcadir.cp warcadir2.for warcaget.cp
warcaget2.for**

Existing modules requiring updates include:

**dsserve.pgm imgcopy.pgm mcgetscantime.for SATANNOT
SATBAND CORE.SAT makefile**

- The MSG servers, **msgtadir2.for** and **msgtaget2.for**, determine the satellite sensor number (SS) from the file name containing the data. The servers were updated to recognize data from Meteosat-11.
- The McIDAS-XRD OMTP servers, **omtpadir2.for** and **omtpaget2.for**, were updated to correctly report the start time of data for satellites METEOSAT-1 through 7 that are stored in the OMTP format. Previously, the time reported was the end of the image rather than the image start time. The servers now set the value of 1 for the image start scan, word 48 of the AREA directory to differentiate between the two types of data (previously, word 48 was set to zero). Additionally, the memo field will reflect this change.
- A correction was made to **imgparm.pgm** to properly close the file **CORE.SAT**.
- The VTEC text data for Flood Warnings are now being sent in mixed case format. The routine that decodes this text, **wwmisc.c**, now takes into account for this update to correctly list and plot Flood Warnings.