

DXAdvanced Series: File Creation Date Nonconformity

Nonconformity was discovered in the file system of our DXAdvanced series of recorders (DX1000, DX1000N, DX2000) in which the file creation date can be erroneous. Please read below for a description of the nonconformity and the appropriate corrective measures. We always strive to provide the highest quality products, and we apologize for any inconvenience this may cause.

1. Affected Models (Model Names in Parentheses)

- DXAdvanced series
 - DX1000 (DX1002, DX1004, DX1006, DX1012)
 - DX1000N (DX1002N, DX1004N, DX1006N, DX1012N)
 - DX2000 (DX2004, DX2008, DX2010, DX2020, DX2030, DX2040, DX2048)
- ※ No problems were found with the following series and products: DX100/DX200 series, DX100P/DX200P series, MV100/MV200 series, CX1000/CX2000 series, and MVAdvanced series products scheduled to ship at the end of December.

2. Description of the Nonconformity

The file creation date of files saved to external media (CF card and USB memory) in February of leap years will be erroneous. However, data acquisition functions properly, and the dates and times of measured data themselves are recorded correctly. There is no problem with respect to data saved to internal memory. There is also no problem with data files transferred to an FTP server. The specific errors are as follows:

- The file creation date of files saved to external media on February 1 of leap years is internally recorded as “February 0.” Therefore, the file creation dates of these files displayed on the DX main unit or PC would be erroneous.
- The file creation date of files saved to external media on February 2 through 29 of leap years is one day earlier than the actual date.

The actually displayed dates are as follows.

Data Saved On	DXAdvanced Display	PC Display
	File List	File Update Date/Time in Windows
February 1, 2008	1980/01/01	None
February 2, 2008	2008/02/01	2/1/2008
February 3, 2008	2008/02/02	2/2/2008
:	:	:
February 29, 2008	2008/02/28	2/28/2008

Remarks

- There is no problem with respect to data saved in months other than February.
- Contents within the data files are recorded correctly. Therefore, there are no problems with browsing data in DAQSTANDARD or DAQEXPLORER’s viewer software. These can be used as always.

3. Precautions When Using the Media FIFO Function

When using the media FIFO function (added with firmware release 2, overwrites oldest files with newest files when the CF card becomes full), the following problem occurs.

Because data files saved on February 1 of leap years are handled as if created on January 1, 1980, 00:00:00, which is the oldest possible date, these files are discarded first. Note that the media FIFO function is turned OFF (not used) by default. If the media FIFO function is not used, data is not deleted from the CF card in the above manner.

4. Differences in Nonconformity Behavior and Corrective Action by DX Firmware Version (Release Number)

Because the media FIFO function is only included with DX firmware release number 2, the nature of the nonconformity that occurs and the corrective actions differ between release 1 and 2 as shown in the table below. To check the firmware release number, see Supplement 1.

	Firmware Release 1	Firmware Release 2	
		Media FIFO Function = OFF	Media FIFO Function = ON
Description	<p>See 2., “Description of the Nonconformity,” above The file creation date of files saved to external media in February of leap years will be erroneous.</p>	<p>See 2., “Description of the Nonconformity,” above The file creation date of files saved to external media in February of leap years will be erroneous.</p>	<p>(1) See 2., “Description of the Nonconformity” above The file creation date of files saved to external media in February of leap years will be erroneous. (2) See 3., “Precautions When Using the Media FIFO Function,” above Files saved to the CF card on February 1 of leap years are mistaken for the oldest files and deleted first.</p>
Corrective Action	<p>See 5., “Countermeasure 1” below* Please remember to add 1 day to the file creation date if DXAdvanced or Windows displays it incorrectly.</p>	<p>See 5., “Countermeasure 1” below* Please remember to add 1 day to the file creation date if DXAdvanced or Windows displays it incorrectly.</p>	<p>See 6., “Countermeasure 2 (Firmware Upgrade)” below* Please upgrade the firmware. If you cannot perform the upgrade immediately, see 5. (2), “Countermeasure 1,” below. Remove the CF card on or before January 31, and replace it on or after February 2.</p>

* You can also choose Countermeasure 2 (firmware upgrade).

5. Countermeasure 1

For firmware release number 1, or even firmware release number 2 if the media FIFO function is OFF, there may be cases where the file creation date of data files is erroneous, but data will not be deleted from the CF card. For all intents and purposes, you can use the product without problems by carrying out countermeasure 1 (1). If you are using the media FIFO function but unable to perform countermeasure 2 immediately, you can avoid the problem temporarily by following countermeasure 1 (2).

- (1) If dates displayed in the DXAdvanced file list or the file update dates in Windows are incorrect, please interpret these with the correct date. There will be no problem with the data files themselves or their file names.
- (2) Remove the CF card on or before January 31 of leap years, and replace it on or after February 2. Files will not be created on the CF card on February 1, therefore no files will be assigned a date of January 1, 1980, and no data will be overwritten erroneously as a result of the nonconformity. Files created during February of leap years are read on DXAdvanced as being created one day earlier than the true date. Therefore, do not read these files on DXAdvanced.

6. Countermeasure 2 (Firmware Upgrade)

Upgrade the DX firmware to the latest version. You can perform the upgrade yourself, or have it performed by your Yokogawa dealer, service center, or sales office. To perform the upgrade yourself, follow the procedure below.

- (1) Download the firmware upgrade that is specially designed to correct the nonconformity from the following URL:
<http://www.yokogawa.com/ns/dx/>
- (2) Download the following files from the above URL.
 - DXAdvanced firmware
 - DAQSTANDARD software
 - The latest user’s manual
 - An image of the sub name plate
 - Firmware upgrade procedure
- (3) Using the downloaded firmware, follow the upgrade procedure to perform the firmware upgrade.
- (4) Affix the sub name plate indicating that the upgrade has been performed to the DX. If you do not have a sub name plate, you can print out the downloaded image of the sub name plate indicating that the upgrade has been performed and affix it to the DX. If possible, please print out the sub name plate onto adhesive labels/seals.

7. Inquiries

If you have any questions, please contact the dealer from which you purchased the instrument, or DXAdv2008_netsol@cs.jp.yokogawa.com

Supplement 1

Checking the Firmware Release Number of DXAdvanced

Method 1

The main name plate is located on the top of the DX main unit case, towards the back. Check the release number printed on the main name plate. The release number is printed in the STYLE box marked "S" (see figure 1 below).

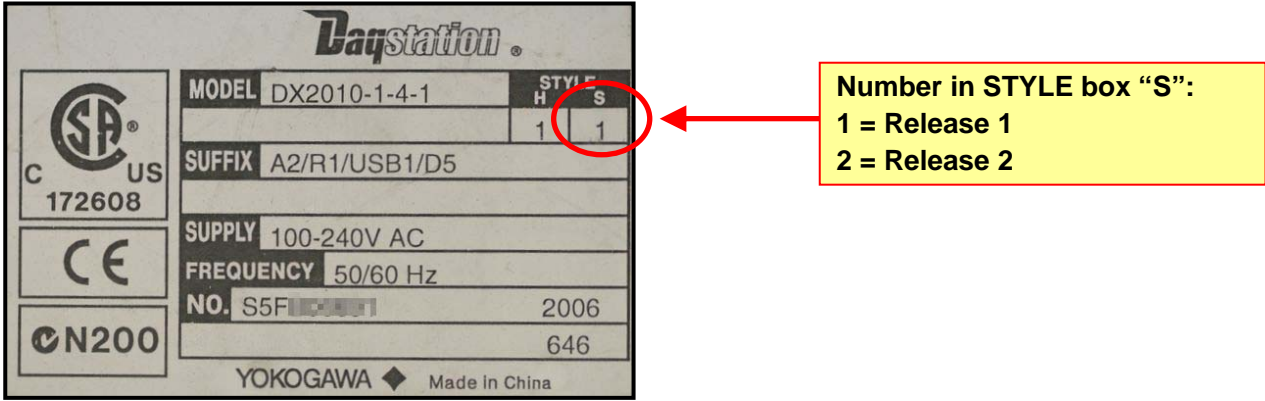


Figure 1 (Main name plate)

Method 2

You can check the firmware release number (version) in an operating screen of the DX. The procedure is as follows (same for the DX1000 and DX2000).

- (1) In an operation screen, press the FUNC key.
- (2) In the function menu, press the **System Info** soft key.
- (3) The system information screen is displayed. The release number appears next to the word, "Version" (see figure 2 below).

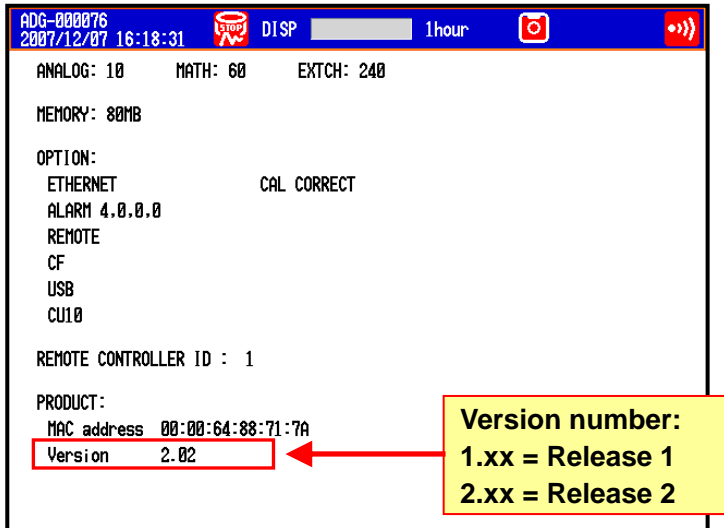


Figure 2 (system information screen)