

Trendsetter 400/800/NEWS GMCE CR 2.1

Readme/Release Notes

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Revision History

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Trendsetter 400/800/NEWS GMCE CR 2.1
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1. IMPORTANT INFORMATION

Trendsetter® 400/800/NEWS GMCE Controlled Release (CR) 2.1 is an update to CR2.0 GMCE. It is fixing an issue with image orthogonal correction when plotting at 1200dpi. Familiarize yourself with this information before installing this Controlled Release.

WARNING: A service dongle is mandatory for this CR. You cannot access Service Shell without a service dongle or a service license.

1.1 Providing Feedback to Product Development

Please e-mail andrew.so@kodak.com or frank.vaneerdt@kodak.com to suggest any changes to the format and quantity/quality of material, or for corrections to content.

1.2 GMCE Support

GMCE is the new electronics board in the Trendsetter machines. This is supported in CR2.0 via a point-to-point Gigabit Ethernet connection, which requires an additional Gigabit Ethernet card in the workstation. Workstations shipped from the factory will have the card preinstalled. Workstations that are upgraded to GMCE connectivity in the field must have an additional network card installed, as described in the document *GMCE Intel Pro/1000 MT Server Adapter Installation, Configuration, and Testing* (719-00735A).

1.3 Requirements Before Proceeding

Ensure that you have the following items before proceeding with this install.

- Customer feature dongle (navy blue)
- Customer Device License (.txt file)
- Service dongle (teal blue) (Service Shell 3.x requires a service license in order to operate; this replaces the password mechanism)
- CR CD (all components plus CR Installer)
- Site Installer CD (for installing a new device from the factory only)
- Minimum 2GB RAM on Print Console workstation
- RS-232 cable may be required to update HCS12 firmware on GMCE.
- USB cable may be required for “back door” service access to GMCE.

1.4 Upgrading to CR 2.1

It is ***mandatory*** for this CR that *all components be updated* to the CR 2.1 level due to the high level of complexity, the new interactions between Print Console, firmware and Service Shell and the introduction of GMCE. There is (as always) no guarantee that a partial install

of this CR will be fully functional. A partial install of the CR constitutes a high-risk action and may result in future service visits.

1.5 Controlled Release Installer

There is now a Controlled Release Installer (CR Installer) that will be used for installation of all components. This readme file appears when the CR installer starts. There is also an associated document that explains how to use the CR Installer – located in the Release Notes folder of the CR CD.

1.6 Workflow Connectivity Information

This section provides important notes about workflow connectivity with Trendsetter GMCE CR 2.1.

1.6.1 Print Console TIFF Downloader

Prinergy® Evo TIFF Downloader replaces Print Console TIFF Downloader (TDL). Prinergy Evo has amalgamated most of the TDL functionality while Print Console retains the plate and media setup information.

1.6.2 Brisque

Brisque® Direct connection to the GMCE platform is no longer supported. A Brisque customer would need to switch to a Brisque Screen2Go (S2G) configuration, and output the 1-bit TIFF files via Prinergy Evo TIFF Downloader.

1.6.3 Prinergy

It is ***mandatory*** that customers running Prinergy 1.x and 2.x versions of Prinergy upgrade to the latest released version of Prinergy 3.x.

1.6.4 Allegro Console

Allegro Console is no longer supported.

1.6.5 Kodak NewsManager

Connectivity with Kodak NewsManager is not supported in this Controlled Release. Support will be added to Controlled Release 3.0.

2. CONTROLLED RELEASE PACKAGE INFORMATION

2.1 Component Information

Component	Version
Print Console	4.8.0.142
Service Shell	3.2.7.37
Creo Feature Licensing	2.1.5
Device License Layout File	2.3
Trendsetter License Definition File	2.7
Newspaper License Definition File	1.6
DCAPI Server	2.0.6.22
GMCE Main Firmware Installer	1.46.9.0
GMCE Core Firmware Installer	1.29.04.1
SCON Firmware Installer	1.24.0.2
Thermal head 1.x firmware	2.00
Thermal head 2.x firmware	1.07b
Version config file	TS-400-800-III_GMCE-NEWS.INI

Controlled release software kit: 634-000514A
Controlled release software CD: 651-00656B

2.2 Device Qualification

The following devices have been qualified with this controlled release:

- Trendsetter 400 / 800 III
- Trendsetter 400 / 800 III Autoloader
- Trendsetter 400 / 800 III ContinuousLoad
- Trendsetter News 50 / 70 / 100 / 150 / 200 (GMCE)
- Trendsetter News 50C / 70C / 100C / 200C (GMCE)
- Trendsetter News SA (GMCE)

The following heads have been qualified with this controlled release:

- Thermal head 2.x
- Thermal head 1.x

2.3 Limitations

- Older Dell workstations may have inadequate performance

- Kodak NewsManager connectivity is not qualified yet
- Allegro Console is not qualified
- Brisque Direct connectivity with Print Console 4.x is not qualified

2.4 Dependencies

- Microsoft® Windows®2000 Professional, Microsoft Windows 2000 Server, Microsoft Windows XP Professional or Microsoft Windows 2003 Server operating systems on workstation
- Adequate performance achieved with Dell® PowerEdge® 2600/2800, Dell PowerEdge 800/830, or Dell GX 620 (2 GB RAM or greater)
- Internet Explorer® 6 or higher

2.5 Workflow Compatibility

Workflow items are not part of the release, but have been tested for compatibility. The controlled release has been tested with the latest released version of workflow and it is recommended that customers be brought to this level.

- Prinergy 3.1.0.3
- Prinergy Evo 3.1.6.5
- TIFF connectivity via Prinergy Evo 3.1.6.5 (Evo TIFF Downloader)

3. INSTALLATION/UPGRADING

3.1 Install/Upgrade Procedure

Total time—3 hours (minimum)

Task	Time
Dependencies Review the Dependencies before beginning.	
Patches Check the **Patches** folder and apply any patches as documented in the readme files.	
Run CRInstaller Run CRInstaller.exe and follow the prompts. CR installer will install the following components: Service Host Creo bootp server Creo Feature Licensing License Definition Files Configure Service Host	1.0 hour

GMCE core firmware DCAPI server Service Shell client GMCE main firmware Head firmware Satellite board firmware Print Console and support tools Finally, it will verify the components' versions.	
Run Site Installer CD (for new device installation only) A Site Installer CD is shipped with the device. The installer will copy the NVS parameters to the device workstation. See 4.3 for details.	0.25 hour
Install Feature Dongle and Device License Customer Feature Dongle (navy blue), and a device license are required to run CR 2.0. Device license is included as a text file on the site installer CD used previously. Once the dongle has been plugged into the computer, the device license is installed using the Creo License Manager program, as follows: Select **File/Open** and browse to the txt license file OR Click **Paste New License** and paste the device license (full xml string) into the dialog box.	0.25 hour
Workflow Prinergy: update as necessary to meet compatibility Prinergy Evo: update as necessary to meet compatibility	
Version Check After you upgrade all firmware and software, use Version Checker in Service Shell to evaluate all system versions. Ensure that there are no errors reported by the Version Checker.	0.25 hour
Functionality Check Check that the device and all software are functional, including loading and unloading of small, medium, and large media.	1.0 hours

4. FEATURES AND FIXES

4.1 Creo Feature Licensing (CFL)

4.1.1 Firmware and Device Configuration Licensing

The firmware is now licensed and configured by communicating with the Creo License Manager on the workstation, and it must maintain this connection in order to retain its licensing status. Whenever the device is turned on, the firmware automatically attempts to connect with the Creo License Manager. Once it connects, it attempts to get a license for the device. Upon successful retrieval of a license, the device will be considered licensed and will have all the features that it has been licensed for.

If at any time the connection between the firmware and the Creo License Manager is broken, the firmware will lose its license status. Unlicensed devices will allow basic functionality, such as loading media and imaging diagnostics plots. However they will not allow the device to complete a flush, or image any workstation jobs.

The license provides all the device limits and configurations and gives the device an identity. Every time the firmware retrieves a license from the Creo License Manager it stores the last licensed values in NVS. This is so that the firmware can retain some idea of its identity even while unlicensed. A device that has not been licensed at least once will use default licensing values that are a bare minimum for the device.

To see the current licensing status of the device and the current licensed limits, use the **`license`** command. The **`license`** command will also display any errors that might have occurred while attempting to retrieve a license and it should be the primary command for any license troubleshooting. You need type **`access dev`** before being able to run that command.

Since the firmware now retrieves its limits and configurations from the license, the commands **`config`** and **`feature`** are no longer available. They no longer have a use in feature license firmware.

Further information is available on the Feature Licensing site on TechPlanet (http://techplanet.creo.com/output/device_control/feature_licensing/nav/index.htm)

4.1.2 Print Console and Creo Feature Licensing

With CFL, Print Console determines which features are licensed by querying the device firmware. The firmware communicates directly with the CFL server to determine which device and workstation options are licensed. When Print Console starts, it checks on what features are licensed on the device. Print Console will not allow jobs to be processed until the licensed features have been determined. If a new feature is licensed or a license expires for an existing feature, the operator will be notified via a Print Console operator prompt and Print Console will go through the startup procedure described above. If CFL encounters an error, the operator will be notified and Print Console will not allow the operator to submit new jobs.

4.1.3 Service Usage Licenses

The service dongle or a service license is required to run Service Shell. ***Service Shell will not function without a valid service license!***

4.2 Print Console 4.8

Note: If you have used a previous version of Print Console (1.x, 2.x, or 3.x), you will notice some significant differences in Print Console functionality and appearance. It is suggested that you take some time to familiarize yourself with these changes before installation at a customer site.

4.2.1 Reduced Plate Waste

If you cancel a job after its plate has already been loaded, Print Console now uses that plate for the next job (if the next job uses the same media size). This feature saves plates and processor chemicals when you need to cancel a job.

4.2.2 Reduced Job Cancellation

When a picking or loading error occurs and the plate assigned to an image must be discarded, Print Console now reassigns the image to the next plate rather than canceling the job. This feature saves you the effort of having to resubmit the job from the workflow software.

4.2.3 Changes in Appearance

The Print Console user interface has been redesigned to simplify operations for operators. Tool tips and online help are available to provide more information about the different parts of the user interface. In addition, the user interface, error messages, and online help are available in English, French, Italian, German, Spanish, Dutch, Polish, Swedish, Japanese, and Simplified Chinese.

4.2.4 Aids for dealing with errors

Operator prompts are now linked to help topics that provide detailed information about how to recover from an error. Some of the help topics include Flash animations of the recovery procedure.

4.2.5 Internationalized user interface

The Print Console 4 user interface is being translated into several languages. Early versions will offer translated help messages and online help topics. Eventually all GUI elements will be available in multiple languages.

4.2.6 Print Console functionality moved to workflow software

Some of the functions previously handled by Print Console have moved to the workflow software.

Job Submission, Canceling and Status

The workflow shows the status of each image sent to the output device. You can configure job options, set job priority, submit jobs, and cancel jobs in the workflow software.

Print Console shows the status of plates as they move through each stage of an output device.

Queues

Queue management of jobs has moved to the workflow software. See Prinergy Evo 3.1 for details of queue management functionality.

TIFF Management

All TIFF features have moved to Prinergy Evo. This includes the queues, hot folders, and print setups.

4.3 CTP Site Installer CD

Note: The Site Installer CD must be run when installing a new device shipped from production. It is not run as part of a typical CR upgrade and is only available as a separate device-specific CD shipped with the device. The Site Installer is not on the controlled release CD itself.

With the GMCE architecture, NVS parameters are not permanently stored on the GMCE. When a GMCE device ships from production, the GMCE NVS parameters are shipped on a separate device-specific Site Installer CD. The CD contains a simple installer that will copy the NVS parameters to the device workstation and will also set up a secondary backup location for the NVS parameters.

To run the Site Installer for a new device installation:

1. Ensure that CR 2.0 is installed on the device workstation.
2. Ensure that the serial number (marked on the CD) matches the device serial number.
3. Insert the Site Installer CD into the computer. The site installer CD should run automatically (if it does not, simply run Setup.exe from the CD root drive).



4. Follow the prompts to complete the installation.

   You will be prompted to enter a secondary backup location—it is recommended that you configure an accessible network location. The system will automatically backup the GMCE NVS parameters to this location to guard against accidental loss of the NVS parameters.

4.4 Service Tools Functionality

Highlights of the new features of Service Shell 3.x include:

- Service licensing (via dongle or license) replaces the password mechanism.
- Backup and Restore tool allows you to backup all system settings (including NVS, Print Console and Service Shell settings), and restore previous settings.
- Test Plot Applet has a simplified user interface and significantly improved functionality, including the ability to add labels to the plot (for example, each test strip on the plate can be labeled with the settings for that strip).
- Supports GMCE.
- Host Configuration wizard for both TMCE and GMCE.

See the Service Shell release notes for detailed information on the changes in Service Shell functionality and bug fixes.

4.5 Trendsetter NEWS Features

The following features are specific for the Trendsetter NEWS devices only.

4.5.1 Single Broadsheet Plate Picking

Single broadsheet plate picking is now standard on Trendsetter NEWS devices. This option enables the device to load a single plate from a dual-stack configuration. This reduces the amount of wasted plates when only one file must be imaged. The output device alternates stacks when picking plates for single broadsheet jobs.

4.5.2 Dual-Stack Plate Count

The changes for the dual-stack plate count are:

- The operator will enter the total number of plates they are loading in the bay—previously they entered ½ of the number of plates they were loading.
- The firmware will decrement the number of plates in the bay as follows:
    - Pick one plate (supported by Single Broadsheet Picking)—decrement by 1.
    - Pick two plates—decrement by 2.

4.5.3 Improvements to Preloader Support and Dual-Bay Option

The following improvements for the NELA preloader are included in this CR:

- Firmware will report when the NELA preloader is docked with the CTP.
- For the dual-bay option:
    - Firmware to change the order of the bay numbering so that the Trendsetter bay is **always** bay 1.
    - Firmware & Print Console report the progress of plate transfer to the Trendsetter bay.
    - Firmware & Print Console support a **Cancel Plate Transfer** option.

5. MINOR FEATURES AND FIXES

Fixes and smaller features are documented in component release notes, both available in the **Release Notes** folder and on the component install folder on the CR CD.