

Magnus VLF

Controlled Release 4.2 Release Notes

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Revision History

Revision	Date	Author	Comments
1	27 Sep 2007	Duncan Stickings	Initial draft
2	22 Oct 2007	Duncan Stickings	Updated from review feedback.
3	19 Nov 2007	Duncan Stickings	Updated version numbers of components
4	21 Jan 2008	A.Blignaut	Some s/w version corrections made

Kodak

Magnus VLF
Controlled Release 4.2 Release Notes

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1. IMPORTANT INFORMATION

This Controlled Release (CR) is designed specifically for Magnus VLF combined with an **Automatic Pallet Loader (APL) only**.. It is for support of APL Beta customers and production APL customers prior to the release of Controlled Release 5.0.

Familiarize yourself with this information before installing this controlled release.

1.1 Supported Configurations and Features

1.1.1 Workflow Support

The workflow support in CR 4.2 is summarized in the following table.

Table 1

Workflow	Input File Formats	Supported	Data Path Supported
			Gigabit Ethernet **GMCE**
Prinergy Connect 4.0	PDF, PS, DCS, EPS, CT/LW, TIFF/IT	CR 4.2	✓
Prinergy Evo 4.0 - Normalize	PDF, PS, DCS, EPS, CT/LW, TIFF/IT	CR 4.2	✓
Prinergy Evo 4.0- Output from PostScript	PS	CR 4.2	✓
Prinergy Evo 4.0– TIFF	1-bit TIFF	CR 4.2	✓
Brisque 5.2 **Via Screen2Go and Evo TIFF Hot Folders**	CT/LW, PDF, ICF,TIFF (1-bit, IT, 8-bit)	CR 4.2	†
3rd Party Workflows via Evo TIFF Hot Folders	3rd party	CR 4.2	†

† This scenario was not tested.

CR 4.2 and later supports Prinergy 4.0 and/or Pinergy Evo 4.0 and Print Console 4.12 running on the same render station.

See the workstation Limitations and Dependencies table (section 2.3) and Workflow Compatibility (section 2.4) for details.

1.1.2 TMCE and GMCE Support

CR 4.2 supports only GMCE configurations. **TMCE is not supported in this release.**

1.2 Installation Requirements

Only attempt to install this on a Magnus VLF with attached Automatic Pallet Loader (APL). The Magnus VLF should have an APL Ready field upgrade in order to work with the APL.

Ensure that you have the following items before installing this controlled release:

- Customer feature dongle (navy blue)
- Customer device license (xml file)
- Service dongle (teal) (Service Shell 3.x requires a service license in order to operate; this replaces the password mechanism)
- Hardware upgrade components (if necessary)
- Control release CD (all components plus the CR Installer)
- Prinergy Evo 4.0 install/upgrade CD's and Evo license (for TIFF/EVO configurations)
- 2 GB RAM on the Print Console workstation (necessary for system stability)
- RS232 cable may be required to update HCS12 firmware on GMCE
- USB cable may be required for "back door" service access to GMCE
- Ethernet cable for connection the device to the workstation (shipped with the device)

1.3 Related Documents

The following documents are required reading for control release installation and should be followed step-by-step during the installation process:

- Print Console 4.12 Installation Guide

The following documents are highly recommended reading for additional reference and troubleshooting information:

- Service Shell 3.5 release notes
- GMCE Core Firmware Installers Guide
- Magnus VLF Product Firmware 1.26 release notes
- Print Console 4.12 release notes
- TH2 version 1.09b release notes or TH3 version 1.04.05 release notes
- SCON Firmware Installer Guide
- See the **Feature Licensing** page on TechPlanet for further information about feature licensing, including how to order dongles and install device licenses (http://techplanet.creo.com/output/service_tools/service_shell/nav/v2-x/feature_lic_info.htm).

- See the Print Console online help for information on the new plate registration modes: Leading edge; Side edge; Leading edge (third point configurable); and Configurable side edge.

1.4 Upgrading to CR 4.2

It is mandatory for this controlled release that all components be updated to the Magnus VLF CR 4.2 level due to the high level of complexity, the new interactions between Print Console, firmware and Service Shell, and the introduction of Creo Feature Licensing (CFL).

1.5 Controlled Release Installer

The Controlled Release Installer (CR Installer) will be used for installation of all components (with the exception of TMCE main and core firmware). This document will be shown at the launch of the installer.

1.6 Workflow Information

Shown below are important notes about upgrading and usability of workflow with Magnus VLF CR 4.2.

1.6.1 Print Console 3.x Tiff Downloader upgrades

Print Console 3.x Tiff Downloader (TDL) has now been replaced with a combination of Print Console 4.x and Prinergy Evo 4.0. Prinergy Evo has amalgamated most of the TDL functionality while Print Console retains the plate and media setup information. Several steps must be taken before upgrading Print Console 3.x and after installing Print Console 4.x and Prinergy Evo. For information on migration to Print Console 4, see the section on ‘Print Console functionality moved to workflow software’.

1.6.2 Brisque Direct functionality not supported

CR3.0 and higher control release versions not support Brisque Direct connections to Print Console 4.x .

Brisque Direct customers upgrading to CR 3.0 and higher control release versions must switch to a Brisque Screen 2 Go (S2G) configuration, including Prinergy Evo TIFF Downloader.

1.6.3 Prinergy 4.0

It is mandatory that customers running Prinergy versions 1.x and 2.x upgrade to the latest released version of Prinergy 4.0.

1.7 Variable Mainscan Resolution support

CR 4.2 and later supports Variable Mainscan Resolution (VMR) with the following Prinergy versions:

- Prinergy Evo 4.0
- Prinergy 4.0

The VMR option adds functionality to adjust the pixel resolution of Kodak output devices in the mainscan (around-the-drum) direction to align the pixel boundaries to the frequency of the lenticular lens boundaries. Together with the accurate registration capabilities and SQUAREspot thermal imaging on Kodak output devices, it enables lenticular printers to produce high quality products.

1.8 Creo Feature Licensing

This feature uses CR version 3.0 and later.

Firmware now uses Creo Feature Licensing to check that options are correctly enabled. This is in addition to previous feature licensed components such as Service Shell Client, Service Host's TCP/IP Configuration Wizard, and Media Console.

In all cases, Creo Feature Licensing (as well as .NET architecture) needs to be installed. Both are included on the CR version 3.0 and later CD and will be installed by the CR Installer. CR 3.0 and later requires a device license in order to operate. Ensure that the device license is available before starting the upgrade.
A script is available (VerifyMagnusVLFDeviceLicense.spt) to check the machine configuration against the license, before proceeding with the upgrade.

For more information, see Major Features and Fixes - Creo Feature Licensing.

1.9 Known Issues

Print console patch is required for support of punch. If you have a Magnus VLF with APL and punch, please contact us for details.

Print console and firmware can get out of sync on the bay information, after an NVS restore. The workaround is to use Service Shell to edit the bay information so that it matches the actual bay configuration. Then in Print console, open APL and request a measure all bays.

2. CONTROLLED RELEASE PACKAGE INFORMATION

2.1 Component Information

Table 2

Component	Version
CR Installer	1.0.1.73
Print Console	4.12.1.4
Service Shell	3.5.17
CTP Feature Licensing	2.1.5
License Definition Files	2.3
GMCE main firmware	1.26.23
GMCE Core Firmware: Installer Creobootp Xilinx Boot HCSR	 1.31.01 1.36.00 2.03 1.36 1.10.00
SCON Installer	1.34.0.1
Thermal head 2.x firmware	1.09c
Thermal head 3.x firmware	1.04.06
Version config file	Magnus VLF.ini
Creo Service Port	1.0.42
DCAPI	2.0.8.23
PSRM	1.0.13

CR software (SW) kit: 634-00576A

CR 4.2 CD only: 651-00899A-A

Orders for SW kits and CDs can be done via the Response Center (RC) (or CD.Requests@creo.com for CD only). Upon request, the kits can be moved to FTP sites or tokens emailed for downloading.

2.2 Device Qualification

The following devices have been qualified with this controlled release:

- Magnus VLF with Automatic Pallet Loader (APL)
- Magnus VLF Multi-Cassette Unit

The following heads have been qualified with this controlled release:

- Thermal head 2.x
- Thermal head 3.x

The following speeds have been qualified with this controlled release: S, F, V, and X.

2.3 Limitations and Dependencies

Table 3: Render station limitations and dependencies

Hardware Platform	**Workstation**		**Performance Server**		**Premium Server**	
Optiplex 745 or higher			PE840 or higher		PE2600, PE2800 or higher	
Minimum RAM	2 GB		2 GB		2 GB	
Magnus Configuration	TIFF	PDF or PDF and TIFF	TIFF	PDF or PDF and TIFF	TIFF	PDF or PDF and TIFF
TH2.x, S & F speed (GMCE)	OK	OK	OK	OK	OK	OK
TH2.x, V and X speed (GMCE) 8-up	OK	OK	OK	OK	OK	OK
TH2.x, V	OK	Mostly OK	OK	Mostly OK	OK	OK
Th3, X speed (GMCE) VLF	X	X	X	X	OK	OK

- The workstation performance depends on the hardware platform, device configuration, and the complexity and efficiency of the files being rendered.
- Examples of efficient data: Good vector PDF files, TIFF.
- Examples of inefficient, slow data: Un-optimized Copydot format and other file formats generated by various workflows and workflow options. These files create a large display list that the RIP must write to its local disk during the interpretation of the job creating a disk bottleneck.
- Older Dell® workstations may have inadequate performance
- Allegro Console not qualified for Windows 2003
- Brisque Direct Connection with Print Console 4.X and Prinergy Evo 4.0 has not been qualified and will not function – Brisque Screen2Go (S2G) is recommended

- Supporting OS: Microsoft Windows 2000 Professional, Microsoft Windows 2000 Server, Microsoft Windows XP Professional or Microsoft Windows 2003 operating systems on workstation
- Internet Explorer 6 or greater must be installed to support this release.

2.4 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 are brought to this level.

- Brisque 5.2 S2G via Print Console 4.X and Prinergy Evo 4.0 – Brisque Direct connection with Print Console 4.x and Prinergy Evo 4.0 has not been qualified and will not function.
- Prinergy 4.0.2.1
- Prinergy Evo 4.0.6.3
- TIFF Connectivity via Print Console 4.6 and Prinergy Evo 4.0.6.3

3. CR 4.2 INSTALLATION/UPGRADING

3.1 Upgradeability

Upgrades to CR 4.2 have only been tested with CR 4.0. It is likely that upgrades from previous versions are possible, but they have some risk level.

Upgrade paths tested:

- CR 4.0 – CR 4.2

3.2 Installation/Upgrade Procedure

Note: To upgrade to CR 4.2 from versions older than CR 4.0, first upgrade to CR 4.0 and then upgrade to CR 4.2

Note: Before installing CR 4.2:
–Turn off the Prinergy server services.

Note: After installing CR 4.2:
–Enable/disable the rotator option depending on if that hardware is installed. Type `>>option rotator enable/disable` . If the rotator hardware is installed, the option MUST be enabled.

Total time: 2 hours

Task	Time
Dependencies Review the Dependencies before beginning.	
Patches Check the **Patches** folder and apply any patches as documented in the Readme files.	

CR 4.0: A new installation—GMCE	
1. Run CRInstaller.exe and follow the prompts. CR installer will install the following components: Service Host Creo bootp server Creo Feature Licensing Definition Files Configure Service Host GMCE core firmware DCAPI server Service Shell client GMCE main firmware Head firmware Satellite board firmware Print Console and support tools Verify components version 2. Install the Site Installer CD that comes with the device and follow the prompts. CD installer will copy the NVS parameters to the device workstation. See 4.2 for details. 3. Reset the device. 4. Launch Service Shell client and run the VerifyDeviceLicense scipt from scripts\device applet. 5. Install the Customer Device License if it has not already been installed on the workstation. See Appendix A for details.	

Appendix A **Install Feature Dongle and Device License** Customer Feature Dongle (navy blue), and a device license are required for installing CR version 3.1 and later. 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 xml license file OR Click **Paste New License** and paste the device license (full xml string) into the dialog box. Further information is available on the Feature Licensing page on TechPlanet (http://techplanet.creo.com/output/service_tools/service_shell/nav/v2-x/feature_lic_info.htm).	
Appendix B **Install applicable patches for control release components.** Check the patches folder on the control release CD and on the Control/settings page on Techplanet to find all related CR patches.	

4. FEATURES AND FIXES

4.1 Cross Component Functionality

4.1.1 CTP Feature Licensing (CFL)

Magnus VLF TMCE and GMCE licenses two feature sets:

- Firmware features and device configurations
- Service Shell

Further information is available on the Feature Licensing page on TechPlanet (http://techplanet.creo.com/output/service_tools/service_shell/nav/v2-x/feature_lic_info.htm)

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.

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).

Installing a Device License

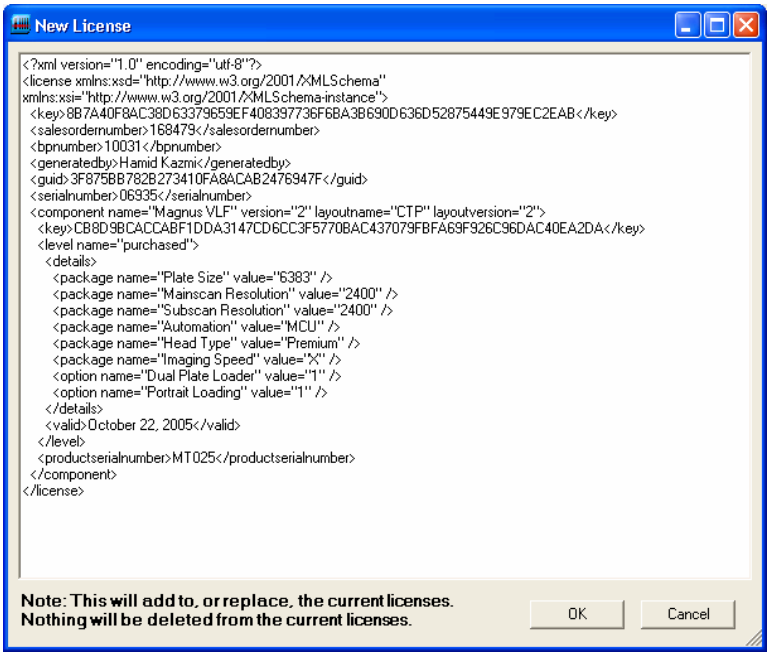
You must have a device license file (xml) in order to run the device. Note that the device license must be matched with the correct dongle id, or the license will not function.

The device license may be obtained in a number of ways:

- If the workstation is shipped from the factory, the device license will be preinstalled on the workstation.
- The license is sent to the installation planner when it is generated by the licensing group in Burnaby.
- The license may be retrieved via the CFL licensing web generator page (http://master.creo.com/cflwebgenerator/). Scroll down to the **License Searching** section, enter the Dongle serial number (for example: C06935) or device serial number (for example: MT072), and click **Find**. You must be on the creo domain to access this website.
- If you have trouble obtaining a license in any of these ways, the Response Center can help you search for a license. The Response Center can also generate a time-limited emergency license if do not have a proper device license.

To install the device license:

- Ensure that the customer feature dongle (navy blue) has been plugged into the computer and that the LED on the dongle is lit.
- Install the license using the Creo License Manager program. This can be done as follows:
    - Select File/Open and browse to the xml license file, or
    - Click Paste New License, paste the device license (full xml string) into the dialog box, and click OK (this method is shown below).



Feature Licensing and Options

The **option** command now operates slightly differently than in previous releases because of feature licensing. Previously the **option** command would display only options relevant to the particular configuration. This has been removed, and now all options will be displayed regardless of the current configuration.

Also, some options will now require a license in order be enabled. The **option** command displays which options need a license, and which options are already licensed. To see which options are available for that device, type: `>>access dev` and `>>option`.

Make sure you only enable the options that are relevant to the device. Many options relate specifically to hardware and enabling the wrong option may have negative consequences.

Print Console and Creo Feature Licensing

With CFL, Print Console determines which features are licensed by asking 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 asks the device which features are licensed. 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.

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!**

Licensed Options for CR 4.2

- Portrait plate loading
- Imaging speed (S, F, V, X)
- Plate size
- Variable Mainscan Resolution
- Resolution
- Premium or Performance imaging
- Processor interface

4.1.2 Print Console 4.X

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 4.X functionality and appearance. It is suggested that you take some time to familiarize yourself with these changes before installation at a customer site.

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.

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 cancel the job. This feature saves you the effort of having to resubmit the job from the workflow software.

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, Russian, Japanese, Traditional Chinese, and Simplified Chinese.

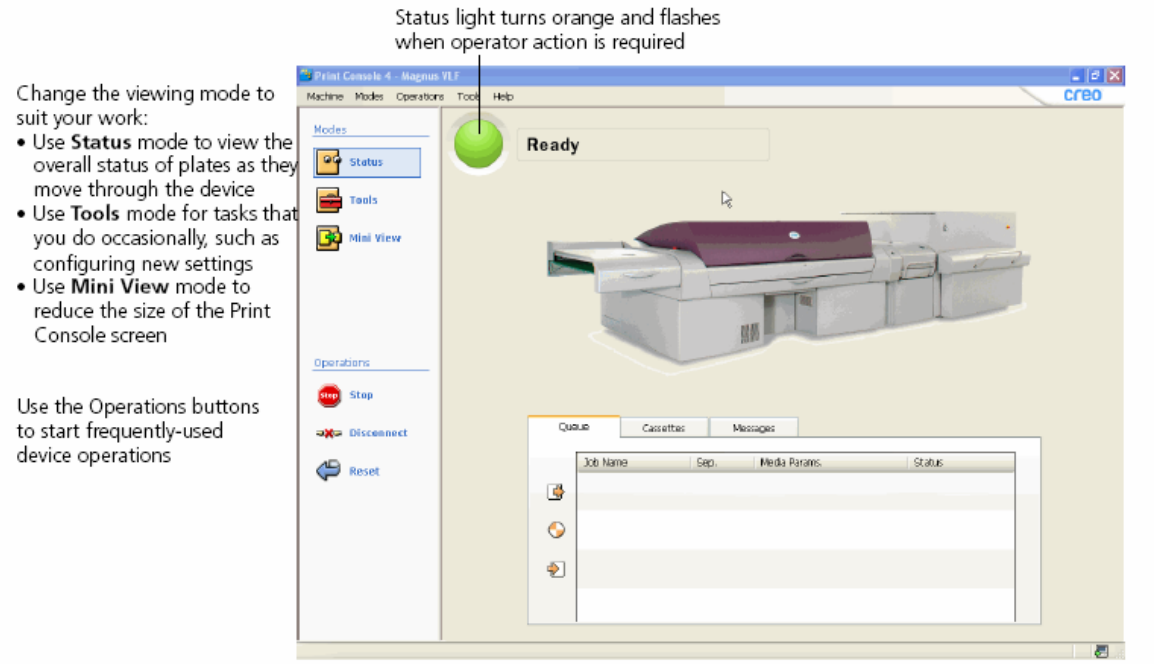


Figure 1: New user interface in Print Console 4

4.1.3 Feedback on what the device is doing during startup

Print Console 4 has an area in the top right of the screen when you receive information about processes that are occurring in the device. At startup, you will receive confirmation that the device is initializing.

4.1.4 Aids for dealing with errors

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

4.1.5 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.

4.1.6 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 will 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 4.0 for details of queue management functionality.

TIFF Management

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

Print Console 2.x and 3.x Settings Migration to Print Console 4.x and Prinergy Evo

There are two migration tools that need to be run when upgrading from Print Console 3.x (or in rare cases, Print Console 2.x).

Print Console 4 migrates settings from Print Console 2.x or Print Console 3.x to Print Console 4.x and the workflow, depending on where the various types of functionality now reside.

4.1.7 Prinergy Evo 4.0

Prinergy Evo 4.0 provides support for full queue management functionality.

Listed below are the highlights for queue management improvements:

For following output cases:

1. Output a 1-bit Tiff to separated output (e.g. OutputTIFF-Device)
2. Output an imposition to separated output (e.g. OutputImpo-VPS)
3. Output an imposition to composite output (e.g. OutputImpo-JPEG)
4. Output a pdf to separated output (e.g. OutputPDF-VPS)
5. Output a pdf to composite output (e.g. OutputPDF-JPEG)
6. Output a PS file to separated output (e.g. OutputPS-VPS)

A user may:

1. View list of output queues.
2. Pause and Resume individual queues. A paused queue is one which does not de-queue any elements. Elements can be added to the queue regardless of the pause state of the queue.
3. Pause and Resume all queues.
4. View elements contained in each queue. The elements are arranged in sequence of output order. Elements that are actively processed also should be visible above the queued tasks.
5. Reorder queued elements in an output queue so that queued elements can be staged in an arbitrary output order.
6. Cancel a queued or active task, without canceling the parent process

See Prinergy Evo 4.0 release notes for details.

4.2 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. In fact, it 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, perform the following steps:

1. Ensure that the latest control release 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 to 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.

4.3 Firmware Functionality

Listed below are highlights of the new functionalities and bug fixes in the corresponding control releases .The highlights only describe the incremental changes to previously released controlled releases.

CR 4.2 highlights:

- Added support for APL

See the firmware release notes for detailed information about changes in firmware functionality and bug fixes.

4.4 Service Tools Functionality

Listed below are highlights of the new functionalities and bug fixes in the corresponding control releases.

The highlights only describe incremental changes to previously released controlled releases.

Service Shell 3.5 (used in CR 4.2):

- Improvements and fixes in the following tools: Host Configuration Wizard, Test Plot Applet, Device Change Tracker, Version Checker, Splot and script updates. Please refer to the Service Shell release notes of all versions since 3.1 for more information.

Service Shell 3.1 (used in CR 4.1):

- Added edge detect camera applet. A new service tool within the Service Shell 3.1 client allows to view live edge detect camera images and to browse stored images.
- Added device configuration tracker applet that can be used as an electronic version of the 100 label. A new service tool within the Service Shell 3.1 client t allows recording and tracking FCOs, preventative maintenance visits, and other service actions on a device. This can be remotely accessed—see help for more details.
- Added support for Splot version 4.90 and higher
- Improving MCE main firmware downloading. Added a fast download option to MCE main firmware downloads to execute download at a baud rate of 115200.

Service Shell 3.0 (used in CR 3.0 and CR 3.1):

- 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 (e.g. each test strip on the plate can be labeled with the settings for that strip).
- Supports GMCE and TH3.
- Host configuration wizard for both TMCE and GMCE.

Note: Service Shell 3.0 and later should not be installed on customer workstations with older controlled releases. In particular, Service Shell 3.0 is not compatible with Print Console 2.x or 3.x running on the same computer. Service Shell 3.0 can be used to connect remotely (e.g. from laptop or response center) to a Print Console 2.x or 3.x system.

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

4.5 Minor Features and Fixes

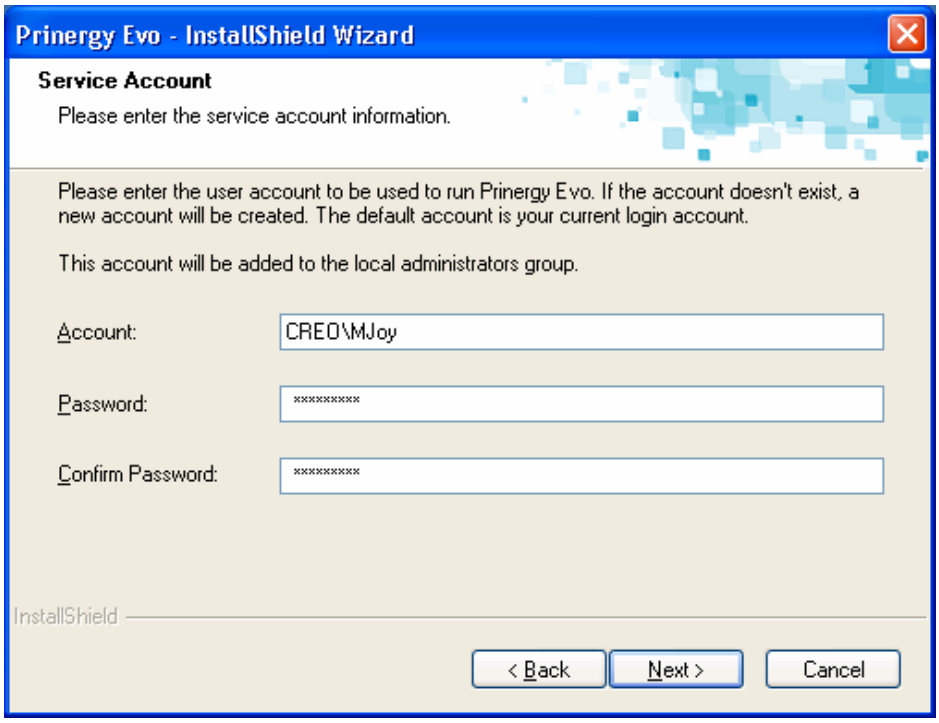
Fixes and smaller features are documented in component release notes, both available in the **Release Notes** folder and on the component install folder on the controlled release CD.

5. APPENDIX A: INSTALLING PRINERGY EVO TIFF DOWNLOADER

This appendix gives a brief overview of the installation of Prinergy Evo TIFF Downloader. For more information, see the Prinergy Evo Installation Guide on TechPlanet.

Installation of Prinergy Evo is straightforward. Follow the prompts during the installation with the following recommended responses:

- Destination install location: usually it is OK to accept the default location.
- Service account: typically you can use the default administrator account.



- Data Migration: if a previous version of Evo was installed, you will be prompted to migrate previous data. Usually the default setting (migrate data from previous version) is the best option (unless you wish to start a “clean” installation).
- Once the main Evo installation starts, it will take approximately 30 minutes to complete.
- You will be prompted to enter an Evo license at the end of the installation—enter the license in the dialog box. If you do not have the license or dongle handy, you can complete the installation and enter the license at a later date from the Prinergy Evo Administrator, accessible from the system tray.
- When the installation process is complete, you may wish to import the migrated Print Console 3.x settings, using the import utility described in the Print Console 4.12 Installation Guide**.**

See the Evo online documentation for information on running Prinergy Evo.

6. PROVIDING FEEDBACK TO PRODUCT DEVELOPMENT

Contact Duncan Stickings with suggestions or changes to the format, quantity, or quality of material contained in this document.