MCE TRENDSETTER 4/8 CONTROLLED RELEASE 5.0

ReadMe/Release Notes

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Revision History

Revision	Date	Author	Comments
1.0	July 16, 2005	Gary Theobald	CR 5.0 Initial Draft
1.1	July 22, 2005	Gary Theobald	Updated with last fw release notes
1.2	August 12, 2005	Gary Theobald	CR S/W Kit changed to version C
1.3	September 21, 2005	Cedric Galere	Modified CD and S/W Kit part numbers (new numbers)

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Release Notes

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1. IMPORTANT INFORMATION

Trendsetter® II (MCE TS) 4/8 Controlled Release (CR) 5.0 has a number of new features that are important to both Customer Services and Solutions (CS&S) and the customer. Familiarize yourself with this information before installing this controlled release.

1.1 PROVIDING FEEDBACK TO PRODUCT DEVELOPMENT

Under the assumption that people are now reading the release notes and as many people have stated that they are worthwhile, please feel free to continue to email me to suggest changes to the format, quantity, or quality of material at gary.theobald@creo.com.

1.2 UPGRADING TO CR 5.0

Due to the scope of changes for feature licensing and the necessity to have all components matched with the appropriate licensing files, it is ***mandatory*** for this controlled release that *you update all components* to the MCE TS 4/8 CR 5.0 level. There is (as always) no guarantee that a partial install of this controlled release will be fully functional. A partial install of the controlled release constitutes a high-risk action and may result in future service visits.

If you have not updated your platform to a minimum of TS 4/8 CR 4.0, it is recommended that you both read the CR 4.0 release notes and upgrade to CR 4.0 level before continuing, as there are a number of important changes since 3.x and any issues can be addressed before moving to a full feature licensed system.

Note: Due to the scope of changes in CR 4.0, it is recommended that you read the release notes for that controlled release and upgrade to CR 4.0 or CR 4.1 before continuing. Both CR 4.0 and CR 4.1 release notes are included in the Release Notes folder on this CD.

NOTE: If you do not have a customer dongle, service dongle and customer license files, do not upgrade the site, as it will result in a hard-down situation.

1.3 CR 5.0 MCE MAIN FIRMWARE NOT DOWNGRADEABLE

Due to security concerns, once CR 5.0 main firmware has been loaded, it is not possible to downgrade firmware back to previous CR levels. Ensure that you have the customer dongle and license files before continuing, as well as being upgraded to CR 4.0 or CR 4.1 level.

1.4 CREO FEATURE LICENSING FOR FIRMWARE

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 TS 4/8 CR 5.0 CD.

More information is available in Major Features and Fixes - Creo Feature Licensing.

1.5 AUCTUS SUPPORT

Auctus is a new Trendsetter platform for sale in the Asia-Pacific market. Auctus is only available with CR 5.0 and will not function with any previous CR versions. More information is available in Major Features and Fixes - Auctus Support.

1.6 MICROSOFT WINDOWS FREEZE SOLUTION

Note: The description of the Microsoft® Windows® freeze solution in the release notes for TS 4/8 CR 4.0 was incorrect, although it may solve a similar issue. The main reason for the freeze and its solution is described next.

There is an issue on Dell Optiplex™ workstations due to conflicts between the SoundMAX® audio driver and other programs. This freeze occurs when you open Windows Internet Explorer and try to go to an http address. The freeze completely locks Windows such that even Task Manager won't allow you to reset the workstation. The only way to restart is to hold down the power button until the workstation shuts down, and then push the power button to start the workstation back up.

Sound capability is not required for CTP functionality, so remove the SoundMAX driver and disable audio functionality in the BIOS.

1. Select **Start > Settings > Control Panel > Add/Remove Programs**.
2. Select **SoundMAX** from the list of programs, click **Change/Remove**, and follow the instructions in the wizard. When you click **Finish** in the wizard, the computer will restart.
3. During the Windows restart, press F2 to enter the BIOS setup.
4. In the left pane, use the down arrow to select **Onboard Device** and then press ENTER.
5. In the list under Onboard Device, select Integrated Audio. In the right pane, you will see that it is On.
6. Press ENTER, use the arrow key to select **Off**, and press ENTER again.
7. Press ESC and select **Save/Exit**. The Windows restart continues and the problem should be solved.

If you did not press F2 in time to enter the BIOS setup, the setup program will attempt to reinstall the driver. If this has occurred, follow steps 1-5, next, once the workstation restarts and the driver reinstallation box appears.

1. Click **Cancel** in the dialog box that displays a message about reinstalling the driver.
2. Select **Start > Settings > Control Panel > Administration Tools > Computer Management > System Tools > Device Manager > Sound, video and game controllers**.
3. Right-click **SoundMAX** and click **OK**.
4. In the **Device usage** box at the bottom of the **General** tab, select **Do not use this device (disable)** and click **OK**.

5. Restart Windows, and during the restart process disable audio functionality in the BIOS as described in steps 3 to 7 of the previous procedure.

For more information, see http://techplanet.creo.com/output/device_control/print_console/content/troubleshooting/prc125.htm.

2. CONTROLLED RELEASE PACKAGE INFORMATION

2.1 COMPONENT INFORMATION

Component	Version
Print Console	3.19.1.7
Service Shell	2.6.1.717
Media Console	1.3.1.394
Inventory Assist **Note**: Creo consumables customers only	2.0.0
Processor monitor interface **Note**: Creo consumables customers only	2.05
Creo Feature Licensing	2.1.5
License definition files	2.0.7
MCE firmware	1.36.16
MCE Xilinx	2.23
MCE core firmware bundle	1.4
Thermal head 1.x firmware	1.97
Brisque Agent	1.00.057
Version config file	**TS-400-800-II.ini**

Controlled release software kit: 634-00398A
Controlled release software CD: 651-00430A

2.2 DEVICE QUALIFICATION

The following devices have been qualified with this controlled release:

- Auctus®
- Trendsetter 400/800 II
- Trendsetter 400/800 II Spectrum®
- Trendsetter 400/800 II ContinuousLoad
- Trendsetter 400/800 II Autoloader
- Trendsetter 400/800 II ContinuousLoad Spectrum
- Trendsetter 400/800 II Autoloader Spectrum

The following heads have been qualified with this controlled release:

- Thermal head 1.7

2.3 LIMITATIONS

- Brisque® Direct software—Brisque version 4.1 output update 5 + LUT patch required
- Media Console 1.3—New database not compatible with Media Console 1.1 database (no upgrade path—must be manually done by Service Tools team)
- DEC® Alpha not supported for Print Console
- DEC Alpha not supported for Service Shell
- Older Dell and Data General® workstations may have inadequate performance.
- Allegro™ Console not qualified for Windows 2003

2.4 DEPENDENCIES

- Windows 2000 SP2 or Windows 2003 operating systems on workstation
- LVD SCSI card or suitable converter on workstation
- Adequate performance achieved with Dell OptiPlex GX270/GX280 (with hyperthreading, 1 GB RAM)
- Internet Explorer 6 or later

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 are brought to this level.

- Brisque Direct 4.1
  Note: If using Brisque 4.1, it is mandatory to upgrade to 4.1.76 output update 5 + LUT patch.
  Note: If using the Manual Load option, you must upgrade to Brisque Agent 1.00.057 to enable this option correctly (if running Brisque Agent 1.00.053 and earlier).
- Brisque Direct 5.0
  Note: It is recommended that Brisque 5.0 be upgraded to update 10.
  Note: If using the Manual Load option, you must upgrade to Brisque Agent 1.00.057 to enable this option correctly (if running Brisque Agent 1.00.053 and earlier).
- Prinergy® 2.3 software
- Prinergy Evo 1.2
  Note: Prinergy Evo 1.2 has not been released at the time of this controlled release. Testing is still underway both in-house and at field test sites.
- TIFF Connectivity via Print Console 3.17 (Tiff Downloader)
- Allegro 2.1—TIFF Connectivity via Allegro Console

- CRI workflows: Not available—CRI no longer supported with Print Console 2.1 and later

3. INSTALLATION / UPGRADING

3.1 UPGRADEABILITY

This controlled release has only been tested with upgrades from MCE TS 4/8 CR 4.x. It is likely that upgrades from previous versions are possible, but they have some risk level.

3.2 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.	
Creo Feature Licensing Ensure that Microsoft .NET framework is installed. Ensure that USB ports are enabled. Install/upgrade Creo Feature Licensing. Install/upgrade license definition files.	0.5 hour
Service Shell Install/upgrade Service Shell—needed for checking head/MCE firmware versions and for downloading the new firmware. Ensure that the COM ports are configured correctly.	0.5 hour
Configure Host Device Run the host configuration from Service Host and configure to correct device model.	0.10 hour
Version Check After installing the Service Shell client, start the Version Checker applet. Click **Config**. A dialog box prompts you for the controlled release config file. Locate the **VersionConfig** folder on the controlled release CD, select the version config file, and select **Evaluate > Yes**. If a dialog box indicates that the device is not yet configured with controlled release version information, select **Configure System > Next**. Locate the **VersionConfig** folder on the controlled release CD, select the version config file, and click **Finish**. For more info about Service Shell, see the Service Shell support site on TechPlanet.	0.25 hour
Firmware Use the firmware upgrade script in Service Shell to back up parameters and download all new MCE Main, PDB, and GENINE (generic input/output node electronics board) firmware.	0.5 hour
Print Console Install/upgrade Print Console.	0.5 hour
Media Console (Media Console customers only) Install/upgrade Media Console.	0.25 hour
Consumables (Creo consumables customers only) Install/upgrade Inventory Assist (for Creo consumables customers) and configure settings in Print Console/Inventory Assist if necessary. Install/upgrade processor monitor interface (for Creo plate processor customers) and configure settings in firmware if necessary.	0.5 hour

Task	Time
Workflow Brisque: Update versions as documented and reconfigure devices. Prinergy: No update necessary Prinergy Evo: No update necessary	
Version Check After all firmware and software have been upgraded, use the Version Checker applet in Service Shell to evaluate all system versions. Ensure that no errors are reported by the Version Checker.	0.25 hour
Functionality Check Check that the device and all applications are functional, including loading and unloading of small, medium, or large size media.	1.5 hours

4. MAJOR FEATURES AND FIXES

4.1 CROSS COMPONENT FUNCTIONALITY

4.1.1 CREO FEATURE LICENSING

MCE TS 4/8 CR 5.0 licenses five feature sets — firmware features and device configurations, service usage of Service Shell Host Configuration TCP/IP wizard, media usage within Media Console and Print Console combinations, and service usage of Media Console.

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 it licensing status. Anytime the device is powered on, the firmware automatically attempts to make a connection with the Creo License Manager. Once it makes a connection, it then 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 anytime 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; it 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 the firmware can retain some idea of its identity even while unlicensed. A device that has not yet 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.

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.

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 licensed:

```
TS>> option

Available Options
-----------------
        Autoloader option is disabled   Licensed
    ContinuousLoad option is disabled   Requires license
          Spectrum option is disabled
         Dual-head option is disabled
        Dual-plate option is disabled
           Rotator option is disabled   Requires license
        Film-guide option is disabled
     Unload-offset option is disabled
    Separator-arms option is disabled
ProcessorInterface option is disabled   Requires license
         Preloader option is disabled
         No-buzzer option is disabled
      Debris UDRCB option is disabled
      Debris UDRCL option is disabled
     Media_manager option is disabled
               VMR option is disabled   Requires license
 Dual_Plate_Loader option is disabled
```

Make sure to 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 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.

VARIABLE MAINSCAN RESOLUTION LICENSING

Print Console now licenses Variable Mainscan Resolution via CFL and the section for VMR licensing has been removed from **Configuration > Preferences > Licenses**.

SERVICE USAGE LICENSES

The service dongle or a service license is required to run Media Console 1.3.1 or the TCP/IP configuration portion of Service Shell's 2.6 Host Configuration Wizard and to use Service Shell client without password protection.

MEDIA USAGE LICENSES

Media Console has supported Creo Feature Licensing since CR 4.0. Proofing media are licensed by vendor name (for example, DuPont, KPG, and Fuji) and may expire on a certain date or have a permanent license. All non-proofing media are not currently licensed. Media Console will not start until a license has been granted for one of the above types of media.

4.1.2 AUCTUS SUPPORT

This patch release supports the Trendsetter Auctus device. All Auctus devices require feature licensing and will not function with any previous versions of firmware.

AUTOMATIC STROKE SETUP FOR AUCTUS

The Trendsetter Auctus only allows a maximum of 128 pixels for the head stroke width. If an Auctus device detects that the stroke width is greater than 128 pixels it will automatically chop the width and shift the stroke offset so that the stroke is centered. This will occur anytime a plot is attempted with a media that uses a stroke width greater than 128 pixels. Only the media that is currently being plotted will be changed, and the changes done are in NVS and will be permanent.

This functionality is only expected to be used a secondary check, the Service Engineer setting up the media on the device should be manually chopping the stroke width and shifting the offset when setting up the media so that the proper quality plots can be done during device setup.

4.2 PRINT CONSOLE FUNCTIONALITY

4.2.1 PASSWORD CONTROL ON CONFIGURATION HIDING

System administrators can hide the **Configuration** pane to prevent accidental modification of configurations. If hidden, it can be accessed either through the **View** menu or by using the CTRL+ALT+C keystroke. In either case, the operator must now enter a password to view the pane.

If system administrators select the **Enable Configuration Button hiding** option, they can also select the:

- **Show button password** box, and then change the password that users must enter to show the **Configuration** button
- **Make job properties read-only** box to make the Job Properties dialog box readonly when the **Configuration** button is hidden. (The Job Properties dialog allows an operator to change the configuration of a specific job.)

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.