Release Notes

English

Magnus Controller

Software Version 1.02.402.004

653-01212A-EN Rev A
Internal 739-00283A-EN

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Introduction

We are pleased to send you the latest revision of *Magnus* Controller software. These release notes highlight the changes and improvements that were made to release 1.02.402.004 of *Magnus* Controller software.
This software version supports all the *Magnus* 800 configurations; semi-automatic, single-cassette autoloader, and multi-cassette autoloader.

What Is in These Release Notes

The release notes include the following sections:

"Magnus 800 Platesetter Overview"—provides a brief overview about the *Magnus* 800 platesetter.

"Magnus 800 Platesetter Advantages"—describes the advantages of the *Magnus* 800 device over existing *Kodak* output devices.

"Magnus 800 Platesetter Features"—describes new menu commands, options, windows, or dialog boxes that were added to *Magnus* Controller software.

"Known Problems"—lists problems that are not yet resolved.

"Prerequisites"—lists the prerequisites for installing Magnus Controller.

"Appendix A: Firmware Versions for Version 1.02.402.004"—describes the various firmware versions for Magnus Controller software version 1.02.404.004

"Appendix B: Remote Support"—describes the remote support components.

Magnus 800 Platesetter Overview

The *Magnus* 800 platesetter is an 8-page thermal computer-to-plate device (830 nm). The *Magnus* 800 platesetter offers improved imaging quality, speed, and performance. Designed to be modular and flexible, the *Magnus* 800 platesetter can be configured to meet many different needs.

It combines SQUAREspot imaging technology with advanced automation capabilities. The robust and highly productive *Magnus* 800 platesetter offers semi and fully automatic operation, scalability, stability, easy maintenance, and superior imaging quality for 8-page sheet feed and web printers.

Magnus 800 Platesetter Advantages

Not only does the *Magnus* 800 platesetter reduce the cost of ownership for customers, but it also reduces the service costs for Kodak.
These reductions are made possible because of the following features and advantages that the *Magnus* 800 platesetter has over other Kodak output devices:

- Improved serviceability compared to Kodak's existing devices.
- Additional service tools for easy support
  The tools include an online help, an improved service shell, a backup and restore utility, and a Test Plot Applet.
  In addition, the service tools are protected by service feature licensing—requiring service engineers to carry a service dongle.
- Easy troubleshooting and recovery capabilities.
  The *Magnus* 800 platesetter is capable of performing a self-recovery from various situations.
- Modular capabilities
  The modular capabilities include an option to bypass the autoloader or the multi-cassette unit (MCU). This bypass option enables the operator to continue operating the platesetter even if the autoloader or the MCU are undergoing repairs.
- Novelty features
  - The loading process is divided into six stations. This improves performance and throughput, enables easy troubleshooting, and supports upgrade ability and modularity.
  - Plate emulsion is always protected during the loading and unloading sequences.
  - Detectors can be masked for easy troubleshooting.
  - Feature licensing control using customer dongles.
  - Multilingual graphical user interface (partially for early production).

Magnus 800 Platesetter Features

Online Help

Accessing the online help

- Press the **F1** key on your keyboard to access the online help.

Viewing the online help topics

- To browse through topics by category, click the **Contents** button.
- To view a list of index entries, click the **Index** button, then either type a word, or scroll through the list.
- To search for specific words or phrases, click the **Search** button and type either the word or phrase.

Navigating through the tabs

Each help topic is divided into four main tabs:

- Concept tabs—Provide overviews or reference information.
- Option tabs—Describe the elements in the relevant windows, dialog boxes, or menus.
- Procedure tabs—Provides links to procedures related to help topics.
- Problem tabs—Provide troubleshooting information related to help topics.

In addition, there are several tabs that contain secondary tabs. A secondary tab provides more detailed information than the four primary tabs.

The status of each tab can be identified by its color:

- White—Tab is available.
- Light blue—Tab is unavailable but contains information. Click the tab to make it available. The tab's color changes from light blue to white. The previously available tab reverts from white to light blue.
- Gray—The tab does not contain any information and therefore is always unavailable.

Loading Sequence

The loading sequence for the *Magnus* 800 device consists of different stations through which a plate progresses.

Up to six plates (depending on the device's configuration) can be in the device simultaneously. Each plate is docked at a different station. For example, when one plate is being exposed on the drum station, another plate may be waiting on the loading platform station, and a third plate may be on the loading conveyor station. When the plate on the drum has been exposed, the remaining plates proceed to the next station.

To visually follow the loading sequence of each plate as it enters and docks at each of the different stations, switch to **Status** mode and click the **Queue** tab.

The names of the stations indicate the location of each plate at any given time during the loading sequence.

The automatic configurations (single-cassette autoloader and multi-cassette autoloader) have up to six stations:

1. Autoloader
2. Loading conveyor
3. Loading platform
4. Drum
5. Unloading platform
6. Unloading conveyor

Multi-Cassette Autoloader

The multi-cassette autoloader loads plates with minimal operator intervention. The cassettes care filled with plates and inserted into the multi-cassette unit (MCU). Each cassette can contain different plate sizes.
Upon receiving a loading request, the MCU transfers the cassette (containing the requested plate size) to the autoloader. The autoloader then transfers the plate to the platesetter.

If more than one cassette contains the same plate size, *Magnus* Controller determines which cassette to use. If the cassette in the autoloader contains the requested plate size, the autoloader loads a plate from that cassette. If two cassettes contain the same plate size, the cassette that was filled first is used.

The multi-cassette autoloader has the following components:

- Plate picker—Picks plates from the cassette and transfers it to the next station.
- Paper picker—Separates the slip sheets from the plates and deposits the slip sheets in an external paper disposal bin.
- Multi-cassette unit (MCU)—Contains up to five cassettes. The cassettes may be filled even when the platesetter is imaging a plate.

Status Light

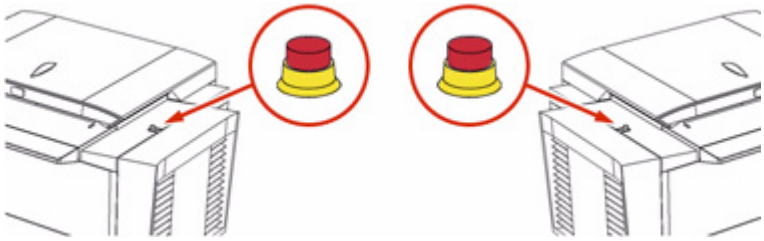
The status light, located on the platesetter's hood, indicates the status of the *Magnus* 800 platesetter:

Color	Name	Description
Off	Off or initializing	The device is shut down or it is initializing. Wait until the light changes color to proceed.
Solid green	Ready	The device is idle. Submit a job from the workflow or fill a cassette with plates.
Flashing green	Working	The device is processing a plate. Perform an additional operation, such as submitting another job.
Flashing blue	Working	The device requires intervention, for example; place a plate on the loading platform, or respond to the **Messages** tab in *Magnus* Controller.
Flashing orange	Attention	An error has occurred and the job is suspended. A message appears on the **Messages** tab in *Magnus* Controller, follow the instructions to continue working.

Emergency Stop Buttons

Emergency stop buttons immediately stop the *Magnus* 800 platesetter. Press an emergency stop button if an injury occurs or if you hear the drum rotating at an unusually high speed.

There are two emergency stop buttons on the platesetter—one per each side:



To continue imaging after an emergency stop button has been pressed, shut down and turn on the platesetter, and then restart *Magnus* Controller.

When an emergency stop occurs, jobs that were in progress are aborted. When the platesetter is turned on again, the device status indicator appears as Attention, and a message appears on the **Messages** tab requesting that the operator follow the recovery procedure.

MCU Operator Panel

The MCU operator panel is located on the right-side of the MCU.

The MCU operator panel has the following components:

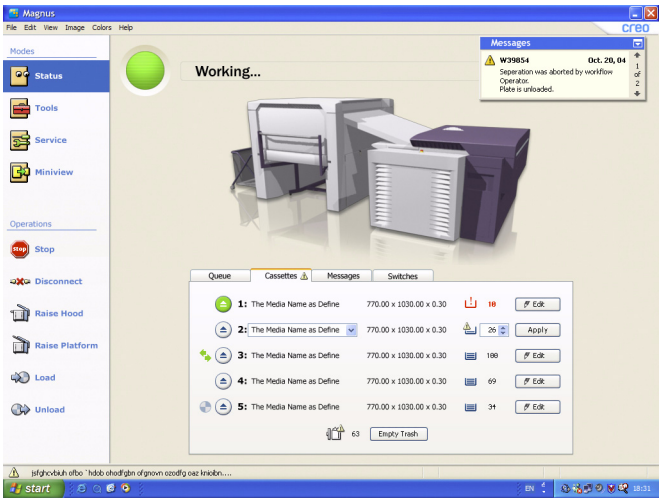
- Graphic display—Indicates the release-cassette status. For example, it indicates when a cassette is released or inserted into the MCU.
- Release button—Press to release the cassette from the MCU.

User Interface

Magnus Controller is the interface with the *Magnus* 800 output device. It controls the operation of the device, is constantly updated with the device's status, and provides information about the device.

The main window of *Magnus* Controller is divided into four areas:

1. Menu bar
2. Pane
3. Status bar
4. Dynamic area



Exposure Capabilities

Backward shifting

When a plate that is in the device cannot continue to progress in the loading sequence, the separation will be salvaged by automatically shifting this separation backward to be exposed on the next plate (on condition that the parameters of the plate are the same as the parameters of the plate required for this separation).

Forward shifting

When an unexposed plate is in the device, the device automatically shifts the next separation forward and exposes it on the plate (if the parameters of the plate are the same as the parameters required for the next job). See the *Magnus 800 Online Help*, for further information.

Responding when the required plate is not available

When a job is forwarded from the workflow workstation, the required number of plates (or more) should have been defined in the **Cassette** tab and the required number of plates should be present in the cassette.
If there are no matching plates, the following message appears:



Click one of the three available options:

- Fill Cassette—Place plates in the cassette and update the **Cassette** tab. The job continues automatically. (In the MCU there is a drop down menu enabling the operator to select the next cassette to be loaded).
- Load Manually—Manually place a plate on the loading conveyor.
- Cancel Job—The job is aborted and the next job begins.

Message Types

Magnus Controller has four message types:

- Information messages—Appear in the upper-right corner, in a separate window that closes automatically.
- Warning messages—Appear in the upper-right corner, in a separate window that closes automatically.
- Prompt messages—Appear in the middle of the screen, in a window that remains open until the operator responds. Further operations cannot be performed until the prompt message is cleared. (Some prompt messages disappear automatically, whereas others demand a response.)

- Recovery messages—Appear in the **Messages** tab; at the same time, the Attention status indicator appears. Some recovery messages relate to the entire device, and others relate to the system in which the malfunction occurred. The Attention status may appear a few minutes after the recovery message appears.



Filling Cassettes

1. Release the cassette from the MCU.
2. If the cassette is to be filled with plates that are the same size as those that were previously in the cassette, then release two of the three plate guides, and slide the guides slightly to the side.
   If the cassette is to be filled with plates that are different in size than those that were previously in the cassette, the release all three of the plate guides, and slide the guides slightly to the side.
3. Place the plates inside the cassette with their emulsion side down.
4. Align the plates so that they touch the edge of the cassette on the side that is nearest the cassette handle.
5. Adjust the plate guides around the plates so that the plates are centered along the X-axis.
6. Lock the plate guides.
7. Reinsert the cassette into the MCU.
8. In *Magnus* Controller, update the cassette's content on the **Cassettes** tab.

Stop Button

When the Stop button is clicked, all the currently active processes, such as the loading and exposing of plates, gradually come to a stop.

When stopping the device in this manner, the plates may be reused. All currently running jobs are canceled and are entered into the failed queue of the workflow workstation.

On the **Magnus Controller Queue** tab, the plates are displayed with parameters, but without a job attached to them.

Note: If the Stop button is clicked while trying to recover the device from a problem, the status indicator changes to Ready. However, if the problem is not resolved, it will reoccur the next time you request the same scenario

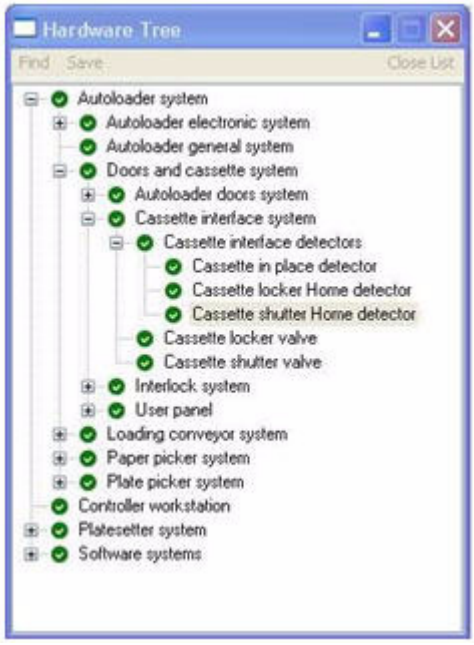
Do not use this button to stop the device in an emergency. In an emergency, stop the device by pushing one of the emergency buttons located on the device itself.

Important: This action is a controlled stop. When you click the Stop button in *Magnus* Controller, the device becomes disconnected from the network. All currently running jobs are canceled and enter the failed queue of the workflow workstation. You can still perform operations in the software; however, you cannot send jobs from the workflow workstation until the device is connected to the network again.

Hardware Tree

This is the main working tool. From the hardware tree you can access each one of the *Magnus* 800 components.

To open this tool, click the **Hardware Tree** icon in the toolbar.



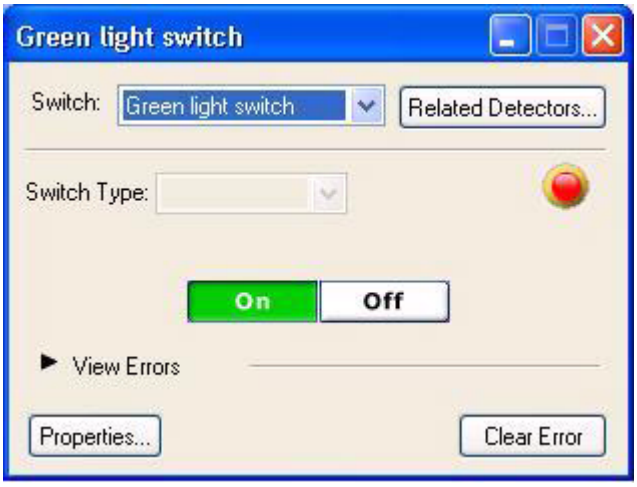
There are different options you can active via the Hardware Tree such as operations, properties, and diagnostics (for EP) etc.

Hardware Tree highlights

- Masking option—Mask/unmask a detector (only available for some of the detectors). This operation will bypass the detector; the software will activate the sequence without sampling the masked detector.



- Related detectors—Open the relevant detector for the specific component. For example, from the TEC actuator valve, clicking the related detector button will open all the relevant detectors.



Loading System Tool

The Loading System tool offers service engineers and product experts an option to troubleshoot the device through graphic user interface options.

In this dialog box the user can perform the following:

- Define the media to be loaded.
- Define the punch to be used.
- Define the loading sequences.
- Perform full loading sequence, including number of times.
- Perform media loading from area X to area Y.

Log File Structure

Log files and log errors are located at **C:\Magnus\Magnus800\Log**

Licensing Control

Licensing is controlled via Creo Feature Licensing (CFL) and dongles.
CFL is an initiative to produce an integrated, robust feature license management system that can provide feature control management for multiple applications in a centralized environment. It is meant to provide a consistent interface and exposure for multiple product groups within Creo.
CFL allow licensing features by the combination of a dongle and encrypted information on the device computer.

The *Magnus* 800 device has two main areas that are licensed using CFL:

- Device features
- Service features

The service dongle or remote service dongle allows access to the service tools in *Magnus* Controller.

Accessing the service mode

1. Install the service dongle.
2. From the **Controller** menu, select **Connect to Service dongle**. *Magnus* Controller verifies if the dongle is correct, and then grants access to the service mode (in *Magnus* Controller).



Note: If the dongle is incorrect, the following message appears: **The service dongle is not connected. Install it to enable the Service mode**.

- A service mode symbol appears in the modes pane.
- A wrench symbol appears inside the Status indicator as long as the service dongle is plugged in.
- All relevant service tools (according to the installed hardware) are available in the service mode.
- A standby (idle device) button appear under the operation pane

Exiting the service mode:

1. Remove the service dongle.
2. Navigate to the menu bar and from the **Controller** menu and select **Disconnect from Service dongle**.

Preferences Tool

The Preferences Tool enables the operator to change the preferences of different settings, for example:

General settings—Defines the measurements and the interface language.

Plate handling settings—Defines whether an unused, un-punched plate will enter the processor.

Cassette handling settings—Defines how many single cassettes are available on site.

Mercury V6 Processor Interface

An interface is located between the processor and the *Magnus* 800 platesetter. The interface enables the platesetter to read the status of the processor and therefore prevents situations when the *Magnus* 800 platesetter unloads a plate toward a processor that is not ready to receive a plate.

Magnus Controller receives four types of status from the processor:

- Ready—Processor is ready to receive a plate from the Magnus 800 platesetter. The platesetter feeds a plate onto the processor as soon as the plate is ready.
- Busy (Not ready)—Processor cannot receive a plate. The *Magnus* 800 platesetter waits until the status changes to Ready and then feeds a plate onto the processor.
- Fault (Error)—Processor cannot receive a plate due to fault inside the processor. *Magnus* Controller generates an error message, informing the operator that the processor requires manual intervention.
- Warning—Processor is ready to receive a plate from *Magnus* 800 platesetter; however the processor informs the operator about impending maintenance. The platesetter feeds a plate onto the processor as soon as the plate is ready and issues a warning message to the user about impending processor maintenance.

Multilingual Graphical User Interface

The static elements of *Magnus* Controller interface (windows, buttons, menus, tool tips, help) can be viewed in the local language. The dynamic messages can also be localized.

The Service mode is always in English, except the windows and dialog boxes that are common with the other modes. This means that all service engineers, located in any region, can now understand and work with *Magnus* Controller.

The supported languages in *Magnus* Controller are:

- English
- German
- Italian
- Spanish
- French
- Japanese
- Simplified Chinese

Switching between languages is performed via a drop down menu in the Preferences tool.

Improved Protector System

In order to protect the *Magnus* 800 device from hardware and/or mechanical failures, over current protectors and hardware protectors (logic protectors) were implemented in the MSB FPGA.

In MSB revision C there are three over current protectors- *fuses*:

- 5V over current protector for the detector.
- 24V over current protector for the motors, switches and punches
- PV over current protector (for future use)

Disable Sub-systems

In order to reduce the service cost of the *Magnus* 800 device, it is essential that the device continues to work even if some of the sub-systems fail or malfunction. A malfunctioning subsystem can be disabled via the preferences tool or by masking a single detector via the hardware tree. This may result in lower performance level of the device until the sub-system is repaired.

Registry Hive

Beginning from *Magnus* Controller, software version 1.02.402.004, the registry hive is now located at **HKEY_LOCAL_MACHINE\SOFTWARE\Kodak\Magnus800**

Files Collector

Files Collector is a utility that collects predefined files and automatically sends them to the *Kodak* FTP server. This utility is meant to be used immediately after the problem occurred. It cannot be used to report a problem that occurred two or three days in the past. Users will be instructed accordingly.

The customer will use it whenever they are asked by service personnel for troubleshooting the device, as a bug reporting system from the machine to Kodak. The customer will have an icon on the desktop that will activate the utility.

Remote Access Password

Beginning from *Magnus* Controller, software version 1.02.402.004, it is possible to connect remotely by using one of the following user names and passwords:

- User: creoservice
- Password: Pathfinder1
- User: Remote
- Password: sciremote

Partially Implemented Features

The following features have been partially implemented, and will be available for full production:

- Tools mode
- Status bar
- Multi-language

Known Problems

This section lists known problems in *Magnus* Controller software version 1.02.402.004. They may be outstanding issues from a previous release or new problems. When a problem listed here is resolved, the solution is described in the *Problems Fixed* section of the release notes for the next version of *Magnus* Controller software.

Recovery Message During Startup

Problem: When starting up *Magnus* Controller, just after powering up the device, a recovery message may appear indicating that the network connection with the device failed.

Workaround: Wait two minutes between powering up the device and starting *Magnus* Controller.

Quitting Magnus Controller

Problem: When trying to quit *Magnus* Controller, the software occasionally freezes.

Workaround: Open the **Task Manager** and end the Magnus800GUI process, or alternatively, on the desktop, double-click the **Terminate Magnus 800** icon.

Debug Assertion Messages

Problem: A debug assertion message intermittently appears, for example, when opening the service doors.

Workaround: Restart *Magnus* Controller.

Expose Process Recovery Message

Problem: From *Brisque* send four separations to expose (C, M, Y, B). Four plates are loaded. The order of the separations job is incorrect - C, Y, M, B instead C, M, Y, B. After the fourth plate is loaded, the expose process did not run. A recovery message appears relating to the expose process.

Workaround: There is no workaround currently available, but if this problem occurs, then minimize the time-out on messages in the *Brisque*.

Help Opens at Incorrect Topic

Problem: When a help button is clicked as part of a recovery message, the help opens at the main page instead of the relevant topic relating to the recovery message.

Workaround: There is no workaround currently available.

Dongle is Not Detected

Problem: On occasion, when turning on the device, the computer, and *Magnus* Controller, a recovery message appears relating to a problem with the dongle.

Workaround:

1. Start the **CFL Manager** software from the desktop icon.
2. From the **File** menu, select **Open**.
3. Locate the **Database** folder - **C:\Creo\FeatureLicensing\Database**
4. Select the **license.xml** file and click **Open**.
5. Quit **CFL Manager** and restart *Magnus* Controller.

Incorrect Machine Status

Problem: The status of the machine appears as Working, although its real status is Attention or Ready.

Workaround: There is no workaround currently available.

Device Status is Ready While Drum Motor is Running

Problem: In the drum motor dialog box, if you select **Go Speed**, insert the speed value and click **GO**, the machine's status appears as Ready, even though the drum is running.

Workaround: There is no workaround currently available.

Autoloader/MCU Covers

Problem: If the autoloader/MCU covers are opened while the cassette is released from the autoloader, there is no indication that the autoloader covers are open and the device status does not appear as Attention.

Workaround: Do not send jobs to expose because they will fail.

Missing or Wrong Indications in Safety Tab

Problem: No indication of the focus defeater appears in the **Safety** tab or the **Message** tab. The indications do not always match the device left/right configuration.

Workaround: There is no workaround currently available.

Refresh Problems in the Safety Tab

Problem: Occasionally the contents of the **Safety** tab do not appear.

Workaround: Click another tab and then click the **Safety** tab.

Cannot use Shift in the Message Tab

Problem: The **Shift** feature for highlighting several messages together cannot be used when opening the **More details** option in the **Messages** tab.

Workaround: In the **Message** tab, close the **More details** option.

Cannot Amend the Loading System Tool

Problem: The Loading System tool properties cannot be amended when the loading system tool is working.

Workaround: Only amend the loading system tool properties when the device status is Ready.

Amend Cassette System Tool Properties

Problem: Amending the properties of the cassette system tool requires either reset or refresh script for debug.

Workaround: Use reset or refresh script for debug.

Unload Button does not Work During Recovery

Problem: If a plate is already loaded onto the drum and an expose was sent without an unload request from the workflow workstation and failed, the unload button in the **Message** tab is not working.

Workaround: There is no workaround currently available.

File With Incorrect Resolution

Problem: If the TMCE mode contains an invalid head resolution and a file with this incorrect resolution is sent to expose, a plate is loaded onto the drum and the expose failed, the unload button in the Message tab is enabled but not working.

Solution: Open **Service Shell** and check that the following modes are correct:

```
OTMCE>> mode
Current Mode (mainscan by subscan) = 2540 by 2540 DPI
                 output resolution = 2540.000 by 2540.000 DPI
---------------
Available Modes
---------------
   1: 2540 by 2540 DPI
   2: 1270 by 1270 DPI (output resolution is 2540 by 2540)
   3: 2400 by 2400 DPI (invalid -- subscan output 2400 does not
match head)
*** Command Complete
```

In the example above mode 3 is invalid. Delete it by changing the invalid mode to a valid mode as follow:

```
OTMCE>> set mode 3 mscanresolution 2540
'mode[3] MscanResolution' changed from 2400 to 2540 DPI
*** Command Complete
OTMCE>> set mode 3 sscanresolution 2540
'mode[3] SscanResolution' changed from 2400 to 2540 DPI
*** Command Complete
```

The result will be as follow:

```
OTMCE>> mode
Current Mode (mainscan by subscan) = 2540 by 2540 DPI
                 output resolution = 2540.000 by 2540.000 DPI
---------------
Available Modes
---------------
   1: 2540 by 2540 DPI
   2: 1270 by 1270 DPI (output resolution is 2540 by 2540)
*** Command Complete
```

Device Image is Incorrect

Problem: The device image is not always correct; sometimes it shows plates when there are no plates loaded or it shows plates in incorrect locations.

Workaround: There is no workaround currently available.

Autoloader Message

Problem: While releasing a cassette, a message that the autoloader may be working appears even when the autoloader is idle.

Workaround: Verify that the autoloader and conveyor station in the status page are cleared.

Warning Message is Not Visible

Problem: If there are several warning messages simultaneously on display, the last generated message is obscured by the message that preceded it.

Workaround: Close or minimize the uppermost messages.

Carriage Motor Cannot be Powered Off

Problem: In the Carriage motor dialog box, select **Go to Position** 500 at a speed of 20 mm/sec, and then click **GO**. The carriage moves. However, the carriage does not stop when the **Power Off** button is clicked.

Workaround: There is no workaround currently available.

Cannot Unload Plate From the Drum

Problem: If the loading conveyor is raised, and a bypass key has been inserted, a plate cannot be unloaded from the drum via the **Unload** button.

Workaround: There is no workaround currently available.

Device Status Ready When Device is Turned Off

Problem: *Magnus* Controller cannot detect if the device is connected or powered. The status may indicate Ready, but in reality the device is not turned on.

Workaround: Whenever turning off the device, also turn off *Magnus* Controller, then turn on the device and then turn on *Magnus* Controller.

Masking the Top Door Open Left/Right Detectors

Problem: Mask the following detectors: Top-door open left/right detectors, motor and laser safety loop open detectors. Then raise the loading platform. The status of the device is displayed as Attention as opposed to Ready. After the platform has been lowered, the status of the device freezes in Attention.

Workaround: There is no workaround currently available.

Masking the Loading Platform Left/Right Detectors

Problem: Mask the loading platform right/left-front detector. Place a plate on the loading conveyor and from the Loading System dialog box, send a load request from the loading conveyor to the drum. The device freezes at Attention and a Recovery message appears.

Workaround: There is no workaround currently available.

Service Buttons Fail to Open

Problem: Dialog boxes fail to open even after the **Service** buttons have been clicked.

Workaround: Open the **Task Manager** and verify that the **Service** buttons are available.

Status is Incorrect

Problem: A job is sent be exposed and the plate moves from pick media stage to the outlet roller. However, if the autoloader top-panel is opened, the device status remains on Working for few minutes.

Workaround: After a few minutes the status changes to Attention.

Status Remains on Initialize

Problem: If a recovery message appears during start up, clicking the **Stop** button does not change the device status to Ready, and the software cannot be closed.

Workaround: There is no workaround currently available.

Status Remains on Working

Problem: Restart the software when the autoloader system is disabled. After closing the pop-up message regarding the disabled system, the platesetter's status remains Working.

Workaround: Click the **Stop** button and then click the **Connect** button.

Plate Display is incorrect

Problem: When sending a job to expose, a pop-up message appears asking to place the plate on the loading platform. The green icon that indicates that a plate is already loaded in the loading platform appears in the **Queue** tab and in the Loading System dialog box, even though there is no plate at this station.

Workaround: There is no workaround currently available.

Releasing a Cassette After Startup

Problem: After startup, releasing the cassette from autoloader via the user panel, may generate a recovery message regarding the shutter valve. The error message suggests that the plate picker is not in home position, even though the plate picker home position appears as ON.

Workaround: There is no workaround currently available.

Cassette Cannot be Released

Problem: If a message appears with three buttons: **Cancel**, **Load Manually**, and **Fill Cassette**, the cassette can not be released via the user panel. If the cassette is released via the user panel and then via the dialog box, the cassette will be released twice.

Workaround: If a message appears with three buttons, do not release the cassette via the user panel. Instead use the buttons in the message.

Cassette Stuck in the Middle Way to MCU

Problem: When sending jobs from *Prinergy*, a problem occurs during the paper disposal sequence. After clearing the problem, and after clicking **Continue**, the cassette becomes stuck in the middle way to the MCU.

Workaround: There is no workaround currently available.

Open MCU Panel

Problem: If an MCU panel is open and a job that requires a plate from a cassette that is currently in the MCU, is sent, the device status is Attention. The recovery message will have all the Recovery buttons as available.

Workaround: There is no workaround currently available. Do not send job to be exposed when the MCU panels are open.

Removing Plates From the Unloading Conveyor

Problem: If the operator removes a plate from the unloading conveyor and there is an expose running, the expose continues but the machine status remains at Attention.

Workaround: There is no workaround currently available. Do not remove a plate from the unloading conveyor whilst a plate is being exposed.

Status Does Not Revert to Attention

Problem: If the operator sends a few plates to expose and while an expose is running, presses the platesetter emergency stop button, the platesetter status remains at Working, as opposed to Attention).

Workaround: There is no workaround currently available.

Modifying Media Parameters When Cassette Moves From MCU

Problem: Send an expose request. Select a plate that exists in one of the MCU cassettes. The cassette begins to move from the MCU to the autoloader.
As the cassette moves, it is possible to modify the media parameters in the Media Tool dialog box. After changing the TH name box in Media Tool dialog box, the platesetter status remains on Working even after the plate has been exposed.

Workaround: Do not change the parameters of media that is currently being used.

New Media Definition Doe Not Appear in TPA

Problem: After creating a new media with the **Controller Media Tool** the information is not transferred to TPA.

Workaround: Restart *Magnus* Controller and Service Shell.

Media From Media List Cannot be Used

Problem: After replacing the TMCE, it is not possible to use media that appears in the media list.

Workaround: Delete the existing media list and build a new one.

Alignment Process Fails

Problem: On a semi-automatic device, the alignment process fails when using the largest plate size (950 x 1162 mm). The plate will not be centered.
Send a load request, including a punch option. Use the largest plate (950 x1162 mm). A pop up message appears prompting the operator to place a plate on the loading platform. Place the plate on either the left or right side of the loading platform. The loading sequence begins, but fails at the alignment sequence.

Workaround: Center the plate in the middle of the loading platform.

Prerequisites

- Magnus 800 Site Preparations and Requirements (731-00340A-EN Rev A)
- Safety
  - Platesetter Safety Precautions for Service Engineers (761-00015A-EN Rev A)
  - Platesetter Safety Precautions for Users (653-00912A-EN, internal 731-00362A-EN)
  - Single-Cassette Autoloader Safety Precautions for Service Engineers (761-00016A-EN)
  - Single-Cassette Autoloader Safety Precautions for Users (Internal No. 761-00017A-EN)

Installing the Platesetter, MCU, and Autoloader

For installations, see the following:

- Magnus 800 Platesetter Installation Guide (731-00584A-EN Rev A)
- Magnus 800 Single-Cassette Autoloader Installation Guide (731-00589A-EN Rev A)
- Magnus 800 Multi-Cassette Autoloader Installation Guide (731-00614A-EN Rev A)

Supported Versions

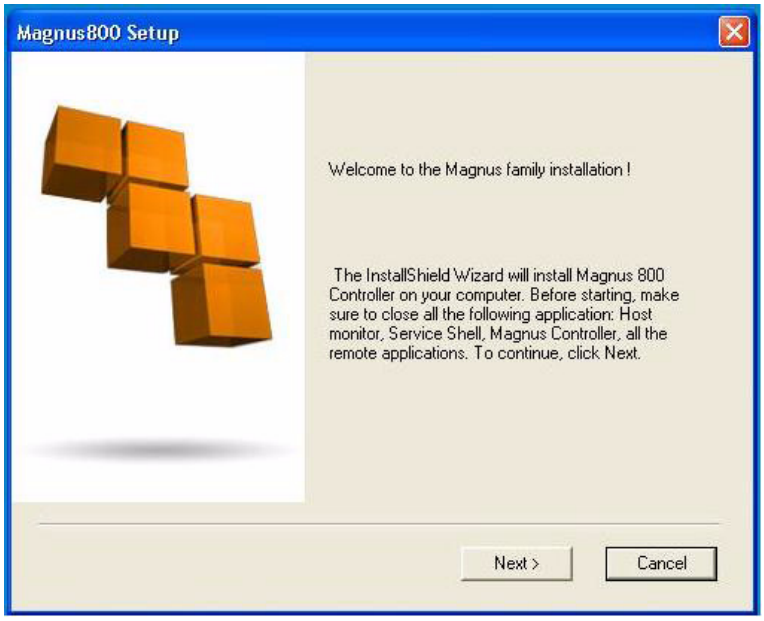
DFE Type	Version	Update
Brisque	5.1.32.0	TBD + patch (P33)
Prinergy	3.0.3.0.46	
Evo	3.0.6.5	
XPO	TFE3.00.77	

	Version	Update
Service Shell	3.0.15	
DCAPI Server	2.0.3.12	
MCE fmw	1.00.24	
MCE LCA	2.23	
TH2 fmw	1.04	

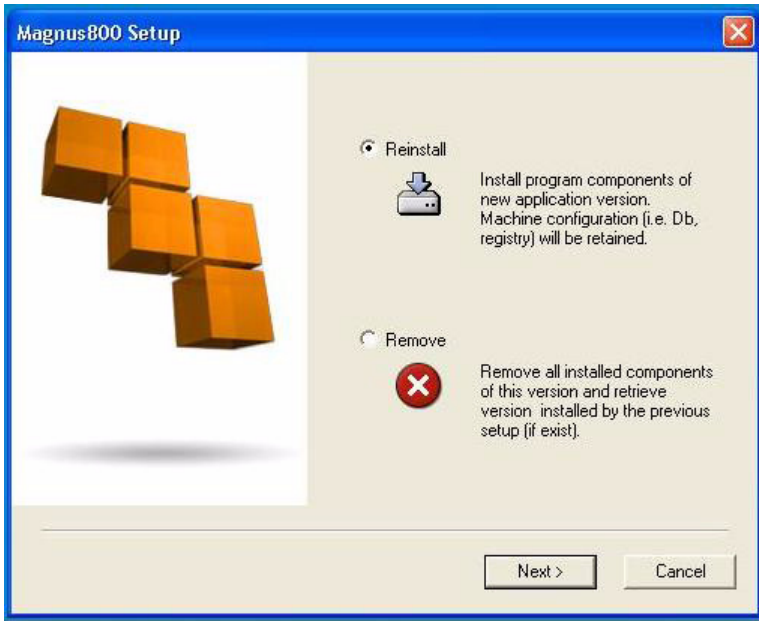
Image CD Version	1.09

Installing Magnus Controller

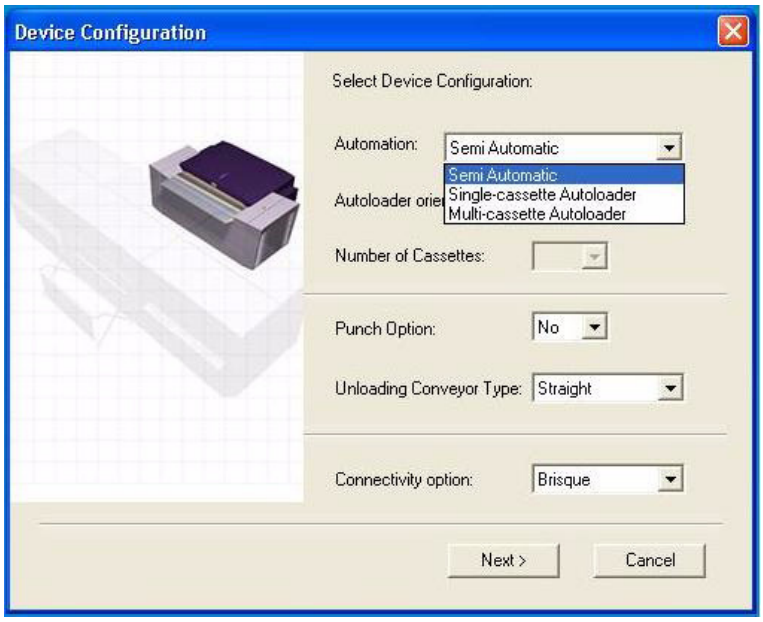
1. Insert the CD into the CD-ROM drive and follow the on screen installation procedures. The Welcome - Magnus 800 Setup dialog box opens.

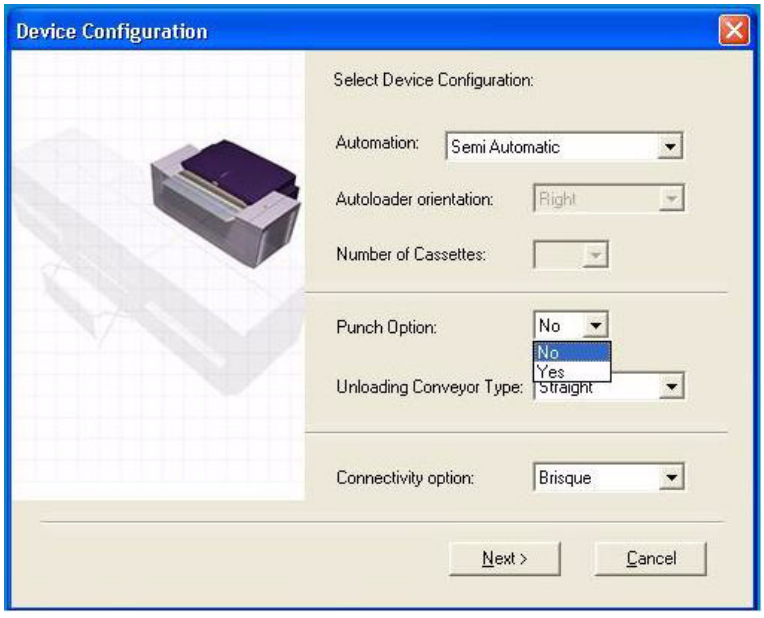


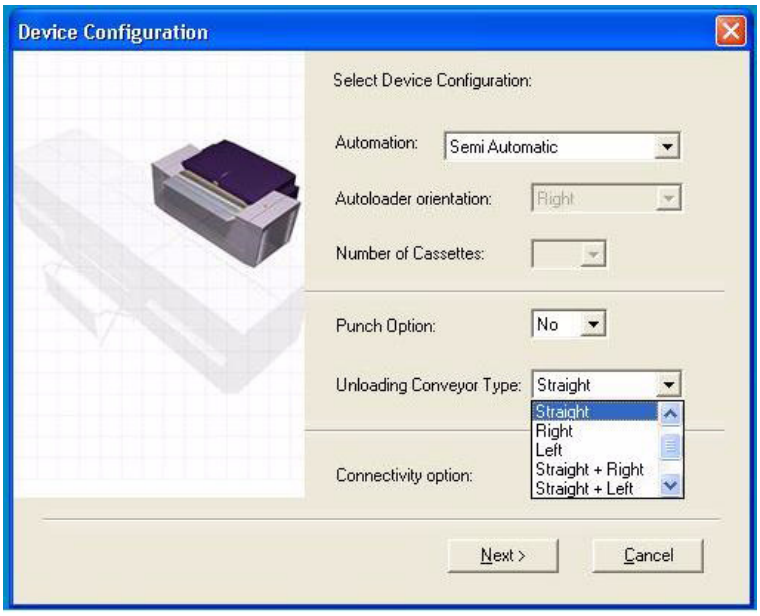
2. Click **Next**. The Setup Type dialog box opens.

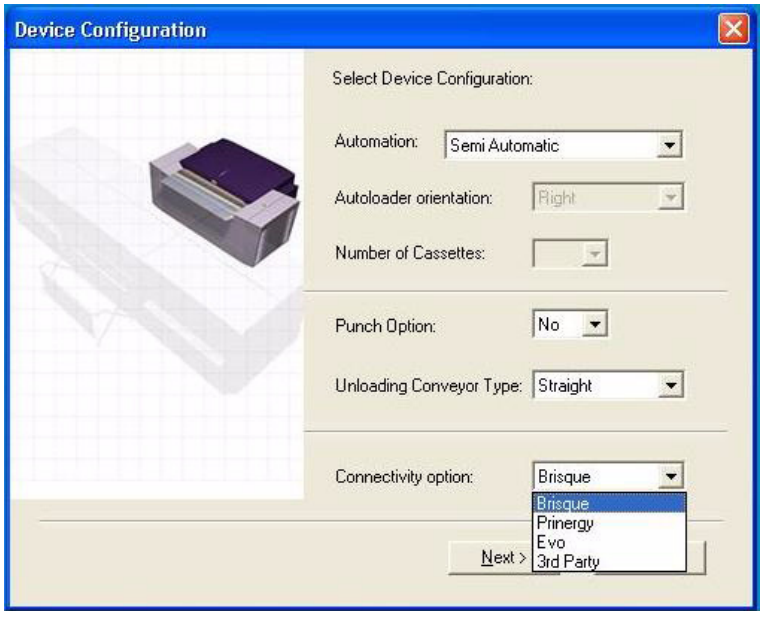


3. Select the **Reinstall** checkbox, and click **Next**. The Device Configuration dialog box opens.

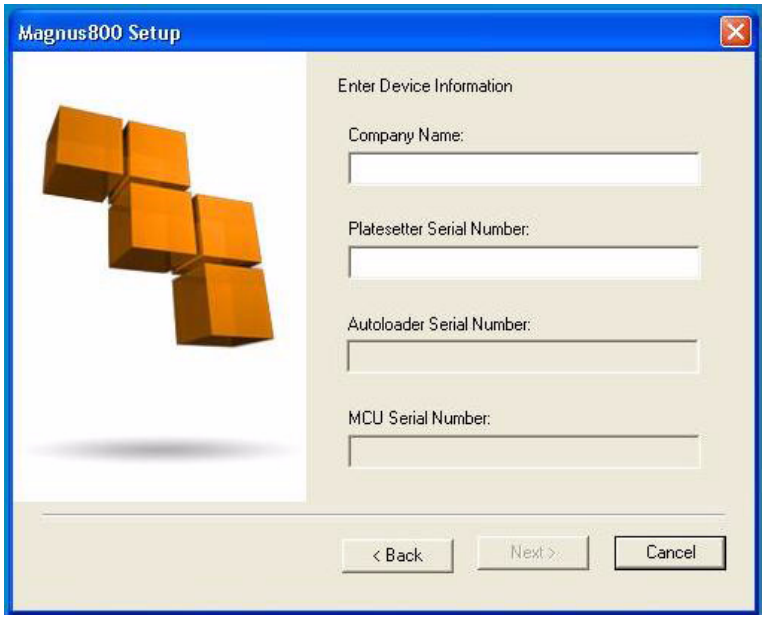





Device Configuration
Select Device Configuration:
Automation:
Semi Automatic
Autoloader orientation:
Right
Number of Cassettes:
Punch Option:
No
Unloading Conveyor Type:
Straight
Straight
Right
Left
Straight + Right
Straight + Left
Connectivity option:
Next >
Cancel


Device Configuration
Select Device Configuration:
Automation:
Semi Automatic
Autoloader orientation:
Right
Number of Cassettes:
Punch Option:
No
Unloading Conveyor Type:
Straight
Connectivity option:
Brisque
Brisque
Prinergy
Evo
3rd Party
Next >

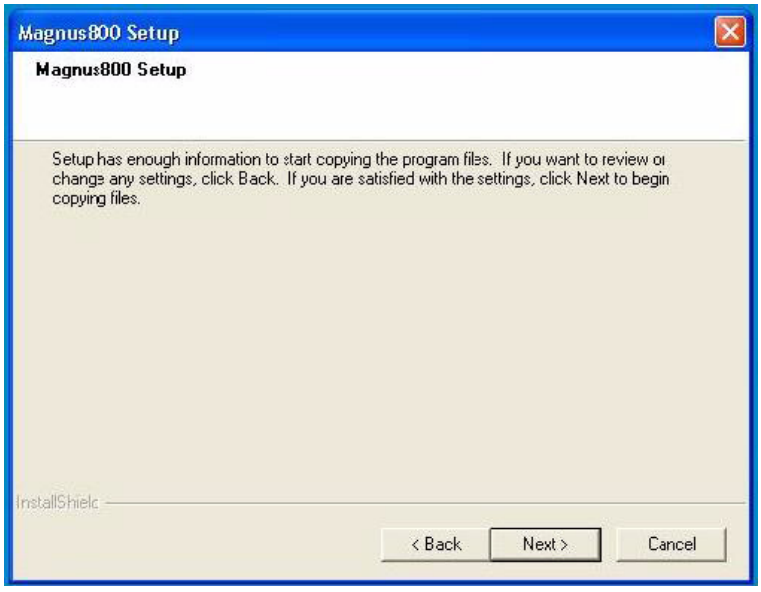
4. Select the required device configuration, including the **Automation** option, the **Punch** option, the **Unloading Conveyor Type**, and the **Connectivity** option. Click **Next.** The Setup dialog box opens.



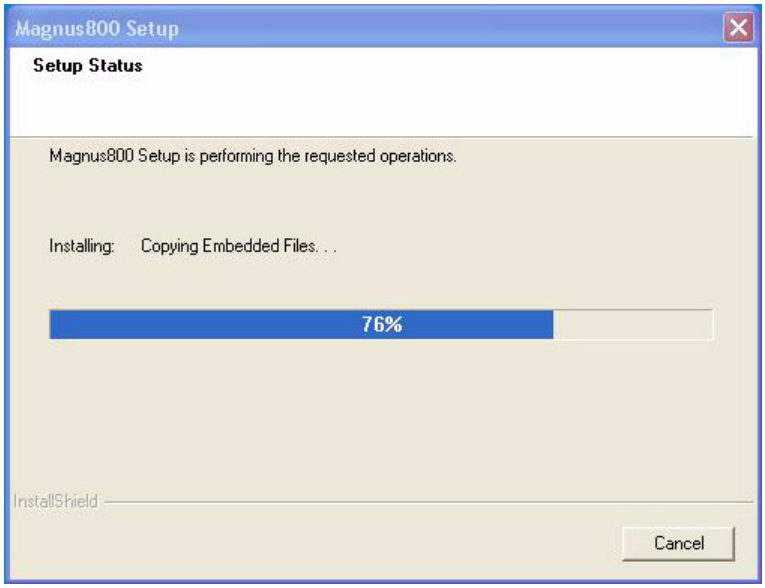
Important: If the company name and device serial numbers boxes are empty perform the following actions, otherwise continue with step 5:

- Enter the customer's name in the **Company Name** box.
- Check the device serial number on the panel near the circuit breakers. A label indicates the serial number. The format is: M800XX. Enter the serial number in the **Platesetter Serial Number** box.
- Check the autoloader's serial number on the panel near the circuit breaker. A label indicates the serial number. The format is: M8A00XX. If applicable, enter the serial number in the **Autoloader Serial Number** box.
- Check the MCU serial number on the panel near the circuit breaker. A label indicates the serial number. The format is: M8M00XX. If applicable, enter the serial number in the MCU **Serial Number** box.

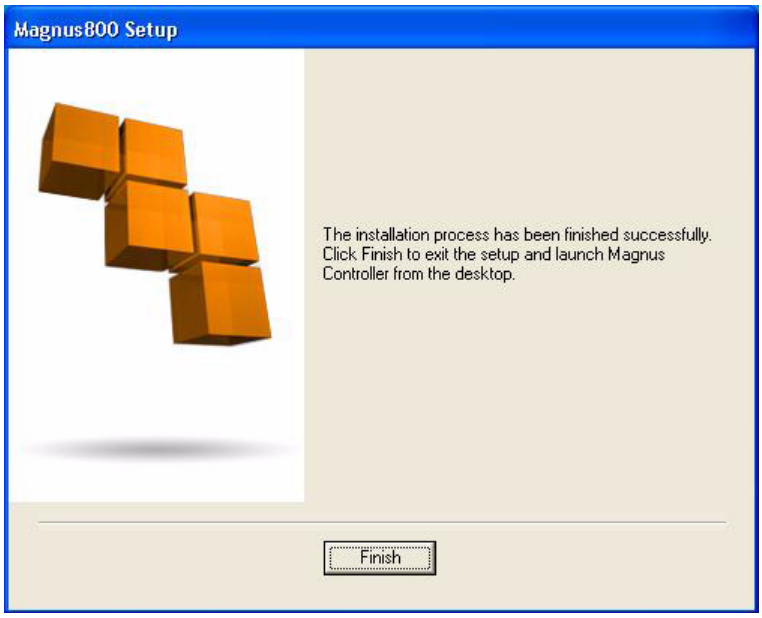
5. If the company name and device serial number boxes have already been completed, then click **Next**.



The setup status progress bar begins to run.



When the installation is complete, click **Finish**.



Post Installation

Magnus Controller software version 1.02.402.004, includes new embedded firmware fro the platesetter and the autoloader MSB boards.

MSB embedded firmware update

To update the MSB boards:

1. Go to folder **C:\Magnus\Util\HostMonitor**
2. Double-click **HostMonitor.exe.**
3. In the dialog box that appears, click **Run Script.**
4. Locate and then load either one of the following files (The choice is dependant upon the MSB you wish to upgrade):
   - **PltesetterGoToBoot.txt**
   - **AutoloaderGoToBoot.txt**
5. Wait until the **Run Script** button is available.

Important: During the loading process, avoid running other applications on the computer.

6. In the dialog box, click **Run Script.**
7. Locate and then load either one of the following files (The choice is dependant upon the MSB you wish to upgrade):
   - **PlatesetterMsbFullDownload_New_C.txt**
   - **AutoloaderMsbFullDownload_New_C.txt**
8. Wait until the **Run Script** button is available.

9. Repeat the operation for the second MSB.
10. Restart the platesetter.

TMCE firmware update

This version includes a new firmware for the TMCE, V1.0.24. The new firmware is located under: C:\ServiceShell\TMCE

1. Open Service Shell client.
2. Record the head type with the following command:

```
OTMCE>> config
Current Model
-------------
Magnus 800 [M800De]
Available Models
----------------
Code        Description
-----------------------------------------
M800De      Magnus 800
M800Q       Magnus 800 Q
*** Command Complete
```

3. Load the new firmware.
4. After loading FW 1.00.24 the default head is non-Quantum (P33) even if the head is actually Quantum (P22). Restore the head type with following command:
   - `OTMCE>config AVerySecretPassword M800De (For non Quantum)`
   - `OTMCE>config AVerySecretPassword M800Q (For Quantum)`
5. FW 1.00.24 does not support old carriage fan detector installed on machines serial no. **M80011 to M80023**. On these machines only change the following parameters:
   - OTMCE>scan CM_Fanfault boff
6. Check, and if required, update the following parameters:
   - OTMCE> drum TSettle 2
   - OTMCE> gc PinLoc[2] 349
   - OTMCE> gc PinLoc[3] 585
   - OTMCE> gc MaxSmall 628

Magnus Controller registry update

Install and run the software, and then quit the software after one minute. This will update the registry with the new entries.

Magnus integrated user door lock

Change the following parameter according to the machine:

HKEY_LOCAL_MACHINE\SOFTWARE\Kodak\Magnus800\Software systems\Cassette system\MCU Parameters

- Support Old Ver Cassette Locker 0 EP machine - Serial no. M80024 and up (default)
- Support Old Ver Cassette Locker 1 Beta machines - Serial no. M80011 to M80023

On machines with serial number M80011 - M80023, only perform the following procedure if installing the software from scratch, meaning, after formatting the image disk:

Loading conveyor folded detector

Change the registry parameters located under the following path:

HKEY_LOCAL_MACHINE\SOFTWARE\Kodak\Magnus800\Autoloader \Autoloader base\MSB IOObjects\Detectors\Conveyor folded detector

- Detector Number 7
- IO Object ID 7
- Detector System Autoloader MSB detector system
- Satellite Board Autoloader MSB board

MCU user door valve

Change the registry parameters located under the following path:

HKEY_LOCAL_MACHINE\SOFTWARE\Kodak\Magnus800\MultiCassette \Switches\Operator panel locker valve

- IO Object ID 3

Appendix A: Firmware Versions for Version 1.02.402.004

The following firmware versions are required in the TMCE board and thermal head 2 (TH2) when installing *Magnus* 800 Controller version 1.02.402.004.

In case you find different versions in the machine, please follow the firmware upgrade procedure in Service Shell. The corresponding files can be found on the **Magnus 800 Controller** software CD (filenames are in parenthesis):

TMCE firmware version

- Main firmware: 1.00.24
- Xilinx firmware: 2.23
- Head firmware: 1.04d
- Boot Code: 1.14
- Post Code: 1.06
- BBR: 1.04d

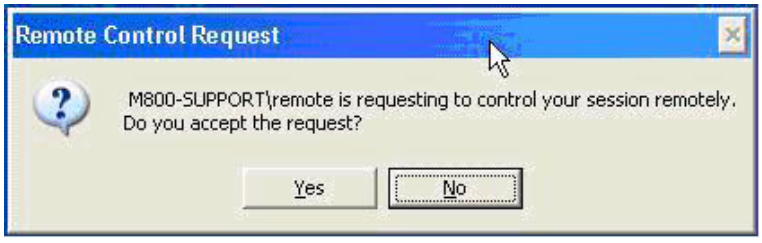
MSBC firmware version

- MSB SW: 1.0.0.10
- Boot SW: 1.0.0.2
- Platesetter FPGA: 0.0.1.7
- Autoloader FPGA: 0.0.1.1

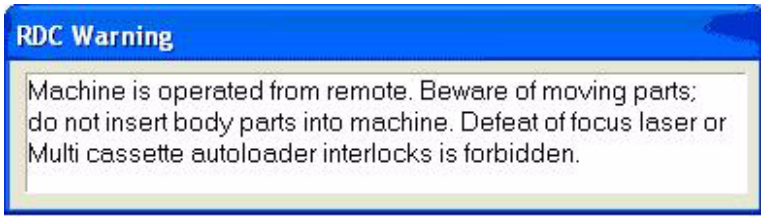
Appendix B: Remote Support

Terminal services overview

- *Microsoft Server 2003* enables remote control as a built in feature of the OS. This tool is called **Terminal Services**.
- When using **Terminal Services**, two modes are available:
  - Separate/Remote Session - enables opening a full desktop of the Server 2003 from remote, but it is not the desktop of the local user
  - Shared Desktop Session - enables the local and remote users to share the same desktop
- For safety reasons, when switching to the Shared Desktop Session the user is requested to approve the connection. This is the dialog box that the user will see on their desktop.



- Once approved the following dialog box is displayed on the desktop until the end of the session.



- Two desktop icons are provided as shortcuts.
  - **Logoff Remote Session**—This shortcut allows you to close a remote session.



  - View **Magnus 800 Desktop**—This is shortcut allows you to view the shared desktop session.



Creo Service Port overview

- Creo Service Port (CSP) is a remote agent software installed on Creo supportable equipment.
- CSP runs as a service and as such, it has no GUI.
- CSP runs in conjunction with ServiceWire/RSS to execute scripts for diagnostics purposes and to aid in tracking systems and their configuration.

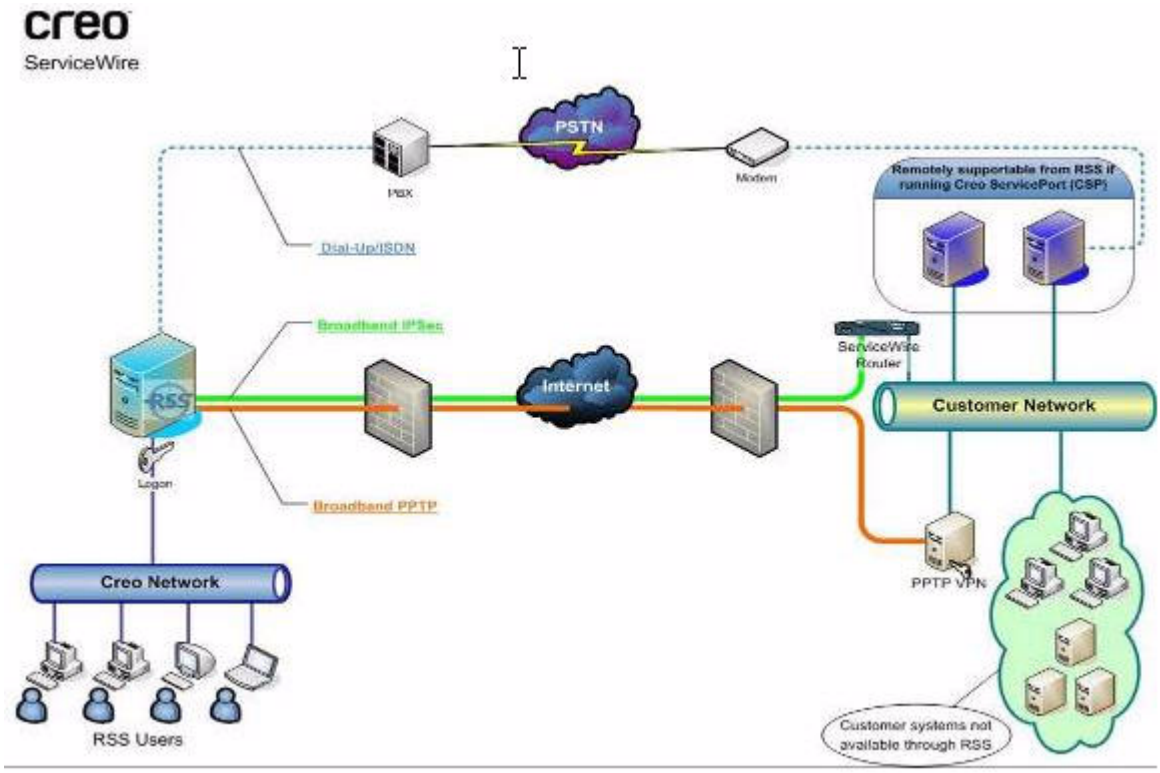
Service Shell Overview

- Service Shell is a client-server software tool that provides remote and local service capabilities
- Service Shell includes a number of basic service functions:
  - Communicating with a device
  - Modifying device parameters
  - Running scripts
  - Retrieving and viewing remote log files
- Service Shell is made up of two main components:
  - Client—Service client, running on the service laptop or other support system
  - Host—Service host, running on the system directly accessing the device
- Both components, Service Client and Service Host, are installed on the *Magnus* 800 device.
- The Service Shell installed on the *Magnus* 800 is version 3.0 (currently in beta)

ServiceWire Overview

- One global tool to connect to all Creo equipment.
- Centralized database with phone numbers, usernames, password, IPs.
- Sharing of connection between engineers is possible.
- One single point of access for all equipment.
- Broadband, Analog, and ISDN support.
- Scripts make diagnostic easier.
- Integration with support tools.

ServiceWire Architecture



Safety Measures

Any remote session requiring activation of either the laser or drum systems, demands:

- All machine doors are closed.
- No one is allowed to defeat safety switches during remote operation.
- Maintain telephone conversation between local and remote persons while remote operation.
- Shut the machine off if hazardous situation is developing.

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