User Guide

English

Prinergy EPM+

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4,743,091	5,343,059	5,568,595	5,764,381	6,003,442	6,164,637	6,371,026
4,992,864	5,355,446	5,576,754	5,771,794	6,014,471	6,180,325	6,377,739
5,049,901	5,359,451	5,579,115	5,785,309	6,016,752	6,181,362	6,387,597
5,079,721	5,359,458	5,592,309	5,813,346	6,031,932	6,181,439	6,396,422
5,103,407	5,367,360	5,594,556	5,818,498	6,043,865	6,186,068	6,396,618
5,111,308	5,384,648	5,600,448	5,854,883	6,060,208	6,189,452	6,407,849
5,113,249	5,384,899	5,608,822	5,861,904	6,063,528	6,191,882	6,414,755
5,122,871	5,412,491	5,615,282	5,861,992	6,063,546	6,204,874	6,422,801
5,124,547	5,412,737	5,625,766	5,875,288	6,072,518	6,208,369	6,435,091
5,132,723	5,420,702	5,636,330	5,894,342	6,090,529	6,214,276	6,441,914
5,150,225	5,420,722	5,649,220	5,900,981	6,096,461	6,217,965	6,450,092
5,153,769	5,459,505	5,650,076	5,934,196	6,098,544	6,260,482	6,456,396
5,155,782	5,473,733	5,652,804	5,942,137	6,107,011	6,266,080	6,476,931
5,157,516	5,481,379	5,680,129	5,946,426	6,112,663	6,266,134	6,477,955
5,208,818	5,488,906	5,691,823	5,947,028	6,115,056	6,267,054	6,509,903
5,208,888	5,497,252	5,691,828	5,958,647	6,121,996	6,268,948	6,541,181
5,247,174	5,508,828	5,696,393	5,966,504	6,130,702	6,283,589	6,545,772
5,249,067	5,509,561	5,699,174	5,969,872	6,134,393	6,295,076	6,564,018
5,283,140	5,517,359	5,699,740	5,973,801	6,136,509	6,299,572	
5,291,273	5,519,852	5,708,736	5,986,819	6,137,580	6,318,266	
5,323,248	5,526,143	5,713,287	5,995,475	6,147,789	6,352,816	

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Using This Guide v

Who Should Use This Guide vi
Assumptions vi
Reference vi
PDF Document vi
For More Information vi

1 EPM+ 1

What is EPM+? 2
How Does EPM+ Work? 2
When is EPM+ Used? 3
EPM+ Periodic Testing 3

2 Preparing for EPM+ 5

Planning for JTP Redistribution 6
Updating Process Plans, Mark Sets, and ICC Profiles 7
Loading the PANTONE Color Library 8
Recording Nonstandard Global Color Entries 8
Duplicating Fonts 8

3 Switching to EPM+ Mode 9

Making the EPM+ Failover Server the Primary Server 10
Adding and Redistributing JTPs to The EPM+ Failover Server 10
Updating Process Plans 11
Loading Colors 13
Duplicating Fonts 13
Selecting the New Primary Server From the Client 13

4 Reverting to Normal Operation 15

Making the EPM+ Server a Secondary Again 16
Restoring the Standard Configuration 17

A EPM+ Planning 19

JTP and Pool Distribution Table 20
Process Plan Reference Table 21
Nonstandard Global Color Entries Table 23

Using This Guide

Who Should Use This Guide vi
PDF Document vi
PDF Document vi
For More Information vi

Who Should Use This Guide

The *Prinergy EPM+User Guide* is designed to get you up and running in EPM+ (Emergency Platemaking Plus) mode on your Prinergy® system.

Use this document to:

- Prepare your Prinergy system to use EPM+.
- Switch your Prinergy system to EPM+ mode.
- Return to normal operating mode.

Assumptions

This manual assumes that:

- All components of Prinergy EPM+ have been installed, configured, and tested on your system.
- You have a working knowledge of prepress operations.
- You are familiar with the Macintosh® and Windows® NT or Windows 2000 operating systems.
- You are familiar with Prinergy system administration.

Reference

For any system configuration procedures, see the *Prinergy System Administration Guide* and Prinergy Administrator online help.

PDF Document

This guide is also provided in PDF (Portable Document Format).

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1 EPM+

What is EPM+? 2
How Does EPM+ Work? 2
When is EPM+ Used? 3
EPM+ Periodic Testing 3

What is EPM+?

EPM+ is a software-based solution that allows Prinergy systems to continue to process jobs and produce plates if the primary server fails. This option provides near-complete system redundancy. The EPM+ solution is based on using a secondary server as a primary server until the original primary server is restored.

The reconfiguration required to switch to and from EPM+ mode is very straightforward, so your Prinergy system can be running again within minutes of detecting a failure of the primary server. Full access is retained to any jobs not stored on the primary server.

EPM+ is built upon the original Prinergy Emergency Platemaking software, so it looks, feels, and operates very similarly. If you have experience with EPM, it will take little effort to learn EPM+.

How Does EPM+ Work?

To support EPM+, all of the primary server's Prinergy software components are installed onto a secondary server (or render station). These components include all of the Prinergy executables, libraries, and configuration files, as well as an installation of the Oracle database.

On a regular basis, the configuration files are copied from the primary server to the EPM+ failover server. These files include process plans, JTP distribution information, and standard colors and fonts.
This procedure captures any configuration information on the primary server that the EPM+ failover server would need to operate as a primary server.

The Oracle Database is replicated in real-time, and is fully available when the system is put into EPM+ mode.

During normal system operation, the EPM+ failover server uses only the Prinergy components needed by a regular secondary server. All of the other non-secondary components, such as the Oracle database, are unused. The Oracle database on the primary server is continuously replicated to the database on the failover server. If the Prinergy primary server fails, you reconfigure the EPM failover server to go into EPM mode and resume processing of jobs, albeit at a somewhat reduced capacity.

When is EPM+ Used?

Reasons for switching to EPM+ may differ from one case to another. However, the main reason for switching is to ensure that jobs continue to get through production. If a primary server failure occurs, call the Creo Response Center for help, and then assess the urgency of the situation. If a plate must be remade for a job on the press for example, switching to EPM+ mode would likely be done without delay.

EPM+ Periodic Testing



Important: Due to the nature of EPM, and the urgency with which you may require its functionality, Creo strongly advises a quarterly *fire-drill* test. This test will take about 30 minutes, and should consist of:

1. Activating the EPM+ failover server as a primary as described in this guide.
2. Starting Prinergy with the EPM failover server acting as the primary.
3. Running a test job in this configuration.
4. Switching the EPM+ failover server back to secondary mode.
5. Starting Prinergy in standard mode.

This test will ensure that you know how EPM functions and what to expect, as well as being sure that EPM will function properly when you need it to.

2

Preparing for EPM+

Planning for JTP Redistribution 6
Updating Process Plans, Mark Sets, and ICC Profiles 7
Loading the PANTONE Color Library 8
Recording Nonstandard Global Color Entries 8
Duplicating Fonts 8

After a Creo service representative has installed EPM+ on your Prinergy system, there are a few tasks you must perform to ensure an easy transition to EPM+ operation, when needed.

Do the following to prepare your Prinergy system for EPM+:

- Plan for JTP redistribution.
- Update process plans, mark sets, and ICC profiles.
- Load the PANTONE color library on the EPM failover server.
- Record nonstandard global color entries.

See the *Prinergy System Administration Guide* and the Prinergy Administrator online help for more information about how to complete these tasks.

Planning for JTP Redistribution

JTP pool configuration information from the primary server is migrated to the EPM+ failover server as part of a daily configuration file transfer. In addition, the following JTP configurations are automatically transferred:

- CTM-Transform
- Marks
- PDF-OPI-Prep
- Register
- Sequencer
- Splitter
- Thumbnail-Prep

Some JTPs are present only on the primary server. You must manually redistribute these JTPs on the EPM+ failover server when operating in EPM+ mode.

There may be enough JTP redundancy in the original JTP configuration that not all JTPs running on the primary server will need to be replaced. For example, if the original configuration had two normalizer JTPs active—one on the primary server and one on a secondary server—you may decide that it is acceptable to run in EPM+ mode with only one normalizer JTP on the secondary server. If not, you would have to create a

new instance of the normalizer JTP on one of the active Prinergy servers and enable any newly-created JTP in its pool. This configuration of the JTPs on the failover server only needs to be done once. It will be saved locally and will be retained through subsequent failovers.



Tip: Plan your JTP and pool distribution ahead of time, so that you can quickly configure and verify your preferred distribution of JTPs if you switch to EPM mode. Use the JTP and Pool Distribution table in Appendix A 20*JTP and Pool Distribution Table* on page 20.

Updating Process Plans, Mark Sets, and ICC Profiles

Process plans from the original primary server are migrated daily to the EPM+ failover server. You may need to reconfigure some process plans for EPM+ operation to capture any changes made since the last migration.

You will have to change process plans that request a JTP on the primary server to specify a JTP accessible to the EPM+ failover server or the pool. A process plan can also refer to files that are stored on the original primary server. Identify these files in advance and ensure that they will be available and accessible from somewhere other than the primary server. Once in EPM+ mode, you can change the process plan to point to the new locations.

Typical files to copy to an EPM-accessible location are:

- *Mark Sets*—The nightly configuration migration copies the mark sets from their standard location at **%AraxiHome%\CreoAraxi\data\MarkSets** to the identical location on the EPM+ failover server. If a process plan refers to mark sets that are at a different location on the original primary server, you must update the locations in the process plan.
- *ICC profiles*—ICC profiles are migrated to the EPM+ failover server from their standard location at **%AraxiHome%\CreoAraxi\data\ICC-Profiles**. If the ICC profile parameters in a process plan refer to profiles at a different location on the primary server, you must update the locations in the process plan.



Tip: Use the Process Plan Reference table in Appendix A *EPM+ Planning* to record the process plans that reference a primary-server-specific JTP and to note the names and locations of any mark sets and ICC profiles that you will need for EPM mode operation.

Loading the PANTONE Color Library

For successful processing in EPM mode, the EPM+ failover server must have the same PANTONE color library version as the primary server.

If the PANTONE color library on the primary server is a different version than the PANTONE library on the EPM+ failover server, you must load the version on the primary server to the EPM+ failover server.

Recording Nonstandard Global Color Entries

Nonstandard global color entries are not migrated daily to the EPM+ failover server, so you must re-create these entries on the EPM+ failover server.



Tip: Use the Nonstandard Global Color Entries table in Appendix A *EPM+ Planning* to record any nonstandard global color entries that you will need to re-create on the EPM+ failover server.

Duplicating Fonts

Any fonts stored on the original primary server in a location other than **%AraxiHome%\CreoAraxi\data\Fonts** will not be migrated nightly to the EPM+ failover server. If any of these fonts will be required for jobs that may be processed from the EPM+ server, you must duplicate these fonts on the EPM+ server.

3

Switching to EPM+ Mode

Making the EPM+ Failover Server the Primary Server 10
Adding and Redistributing JTPs to The EPM+ Failover Server.....10
Updating Process Plans.....11
Loading Colors.....13
Duplicating Fonts.....13
Selecting the New Primary Server From the Client 13

Once you have completed the tasks in this section, your Prinergy system will be ready to process print jobs using the EPM+ server as a primary server.



Tip: These tasks will take less time if you have done some planning in advance. See *Preparing for EPM+* on page 5.

You must do the following before you can use EPM+ mode:

1. Switch the EPM+ failover server to primary server operation.
2. Add and redistribute JTPs on the EPM+ server.
3. Update process plans.
4. Load colors.
5. Duplicate fonts.
6. Select the new primary server from the client.

Making the EPM+ Failover Server the Primary Server

Important: No jobs should be running when you switch the EPM+ failover server to primary server operation.

To switch the EPM+ failover server to primary server operation:

1. Shut down Prinergy on all servers.
2. Move the dongle to the EPM+ failover server.
3. On the EPM+ failover server, fail over Prinergy using Prinergy Administrator>File>Switch To Primary.
4. Start Prinergy. All jobs should be accessible.

Note: This procedure is also described in the *EPM+ Quick Reference Card* that should be left beside the Primary server.

Adding and Redistributing JTPs to The EPM+ Failover Server

To add and redistribute JTPs and pools on the EPM+ failover server:

1. Start up Prinergy.

   At this point, the EPM+ failover server is the primary server with a blank database.

2. Redistribute JTPs previously copied from the original primary server to the EPM+ failover server (if required).

   You must manually add and redistribute JTPs that were not migrated daily and that were present only on the primary server to the EPM+ failover server before Prinergy can operate in EPM+ mode.



Note: All JTPs previously running on the associated render stations and secondary servers (including the EPM+ failover server) will be retained and need not be re-created.

   Carefully review the JTP and pool distribution on the EPM+ failover server and other secondary and render station servers before processing any jobs from the EPM+ failover server.



Tip: Follow the plan you recorded in the JTP and Pool Distribution table in Appendix A *JTP and Pool Distribution Table* on page 20.

Updating Process Plans

To update the process plans on the EPM+ failover server:

1. Review process plans (if required).

   You may need to edit some process plans on the EPM+ failover server to capture changes made since the process plans were migrated from the primary server to the EPM+ failover server.

2. Manually edit process plans for:

   - References to JTPs (as opposed to pools) that are located only on the original primary server.

     You must replace these JTPs with generic pool references or with new versions of the JTPs that were created on the EPM+ failover server.

   - Files explicitly referenced that refer to files existing only on the original primary server. You must correct these process plans to refer to the new file locations. In particular, review these files:

     Mark Sets—If a process plan refers to mark sets at a location other than the standard folder on the original primary server, you must update the locations in the process plan.

     ICC profiles—If the ICC profile parameters in a process plan refer to profiles at a location other than the standard folder on the primary server, you must update the locations in the process plan.



Tip: Use the list of files and locations that you recorded in the Process Plan Reference table in Appendix A *Process Plan Reference Table*.

Loading Colors

To load the PANTONE color library and global color entries on the EPM+ failover server:

1. Load the PANTONE color library (if required).

   If the PANTONE color library on the original primary server is a different version than the PANTONE library on the EPM server, you must load the version that is on the original primary server on the EPM+ failover server.

2. Add nonstandard global colors (if required).

   You must re-create nonstandard global color entries that are on the original primary server on the EPM+ failover server.



Tip: Use the list of color entries that you recorded in the Nonstandard Global Color Entries table in Appendix A *Nonstandard Global Color Entries Table*

Duplicating Fonts

Fonts stored on the original primary server in a location other than **%AraxiHome%\CreoAraxi\data\Fonts** are not migrated daily to the EPM+ failover server. If these fonts are required for jobs processed from the EPM+ failover server during EPM mode operation, you must duplicate the fonts on the EPM+ failover server.

Selecting the New Primary Server From the Client

When you log in to Prinergy Workshop for the first time after switching to EPM+ mode, you must select the name of the acting EPM primary server, instead of the original primary server.

You are now ready to use Prinergy to process jobs and make plates in EPM+ mode.

4 Reverting to Normal Operation

Making the EPM+ Server a Secondary Again 16
Restoring the Standard Configuration 17

Once the original primary server has been repaired, you can revert to using it as the principle primary server, returning the EPM+ server to secondary server status.

Do the following to revert to normal operation:

1. Switch the EPM+ server back to its original configuration.
2. Restore the standard configuration.

Making the EPM+ Server a Secondary Again

WARNING: This procedure must be performed in the exact, step-by-step, numbered sequence below. Failure to do so can permanently corrupt the database, and require a restoration from tape backup.

To switch the EPM+ server back to its original configuration as a secondary server:

1. Stop Prinergy on all servers.
2. Move the dongle back to the Primary server.
3. On the Primary server, delete the Prinergy-Database replication job from Console.
4. On the EPM+ failover server, switch the failover server to a secondary again, using Prinergy Administrator>Revert to Secondary.
5. On the Primary server, run the RestorePrinergy-Database script. Enter the name of the EPM+ failover server when prompted. The script will ask you to confirm before it starts the restore. Do so.
6. On the Primary server, you can monitor restoration progress using the Monitor tab in Console. You must let this process finish! Interrupting a restore will leave an unusable database on the Primary server.

Note: If there is an unexpected interruption (a power outage, for example) the restore process can be restarted by running the RestorePrinergy-Database script again. The restore process will overwrite the unusable database on the Primary server with the still-good copy on the EPM+ failover server.

7. On the Primary server, after the restore is completed, delete the Restore-Database job from Console.
8. On the Primary server, run the EnableOracle script. This will start Oracle on the Primary.

9. On the Primary server, start Prinergy on all servers. Make sure Prinergy is operating properly before proceeding to the next step.
10. On the Primary server, after confirming that Prinergy is operating correctly, reconfigure VSR to replicate the database onto the EPM+ failover server again.

Restoring the Standard Configuration

To restore the standard configuration:

➢ Start Prinergy on all servers.

The system reverts to its standard configuration, with the original primary server and all secondary servers and render stations linked correctly.

A

EPM+ Planning

JTP and Pool Distribution Table 20
Process Plan Reference Table 21
Nonstandard Global Color Entries Table 23

JTP and Pool Distribution Table

To make it easy to configure and verify your preferred distribution of JTPs on the EPM+ failover server, use the following table to record the pools and JTPs that you will need for EPM+ mode operation.

Pool or JTP	Name	Type	Server	Properties/ Options
(Example) Pool	Color Match	Color Match Pool	Primary	
(Example) JTP	ColorMatchOnSecondary	Color Match	Secondary	Color Management: Advanced

Pool or JTP	Name	Type	Server	Properties/ Options

Process Plan Reference Table

Use the following table to record process plans that reference a primary-server-specific JTP and to note the names and locations of any mark sets or ICC profiles that you will need for EPM+ mode operation.

File Name or Process Plan	New Location or JTP	Description
(Example) SpecialMarkFile.pdf	\\Secondary\MarkSets	Special mark set required for Customer A.

File Name or Process Plan	New Location or JTP	Description

Nonstandard Global Color Entries Table

Use the following table to record any nonstandard global color entries that you will need to re-create on the EPM+ failover server during EPM+ mode operation.

Color Name	CMYK or Lab	Description
(Example) Special Spot Red	CMYK	Opacity=Normal, Neutral Density=Blank, C=0, M=100, Y=90, K=0, Screening Angle=75

Color Name	CMYK or Lab	Description

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