

# Application Configuration Guide

## Novell® PlateSpin Forge®

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Novell, Inc.  
404 Wyman Street, Suite 500  
Waltham, MA 02451  
U.S.A.  
[www.novell.com](http://www.novell.com)

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# About This Guide

This guide provides information about licensing your PlateSpin Forge product, managing your license keys, setting up your workloads in preparation for your protection jobs, and configuring your product's default settings and behavior.

- ♦ [Chapter 1, “Product Licensing,” on page 9](#)
- ♦ [Chapter 2, “Setting Up User Authorization and Authentication,” on page 11](#)
- ♦ [Chapter 3, “Access and Communication Requirements across your Protection Network,” on page 17](#)
- ♦ [Chapter 4, “Configuring PlateSpin Forge Default Options,” on page 19](#)

## Audience

This guide is intended for IT staff, such as data center administrators and operators, who use PlateSpin Forge in their ongoing workload migration projects.

## Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation, or submit your comments through the [Novell Documentation Feedback site](http://www.novell.com/documentation/feedback.html) (<http://www.novell.com/documentation/feedback.html>).

## Additional Documentation

This text is part of the PlateSpin Forge documentation set. For a complete list of publications supporting this release, visit the product's Online Documentation Web Site:

[PlateSpin Forge 3 online documentation](http://www.novell.com/documentation/platespin_forge_3) ([http://www.novell.com/documentation/platespin\\_forge\\_3](http://www.novell.com/documentation/platespin_forge_3))

## Documentation Updates

For the most recent version of this text, visit the product's Online Documentation Web site (see [Additional Documentation](#)).

## Additional Resources

We encourage you to use the following additional resources on the Web:

- ♦ [Novell User Forum](http://forums.novell.com/) (<http://forums.novell.com/>)
- ♦ [Novell Knowledge Base](http://www.novell.com/support/) (<http://www.novell.com/support/>)

## Technical Support

- ♦ Telephone (North America): +1-877-528-3774 (1 87 PlateSpin)
- ♦ Telephone (global): +1-416-203-4799
- ♦ E-mail: [support@platespin.com](mailto:support@platespin.com)

You can also visit the [PlateSpin Technical Support Web site \(http://www.platespin.com/support/\)](http://www.platespin.com/support/).



# Product Licensing

# 1

This section provides information about activating your PlateSpin Forge software.

- ♦ [Section 1.1, “Obtaining a License Activation Code,” on page 9](#)
- ♦ [Section 1.2, “Online License Activation,” on page 9](#)
- ♦ [Section 1.3, “Offline License Activation,” on page 9](#)

## 1.1 Obtaining a License Activation Code

For product licensing, you must have a license activation code. If you do not have a license activation code, request one through the [Novell Customer Center Web site \(http://www.novell.com/customercenter/\)](http://www.novell.com/customercenter/). A license activation code will be e-mailed to you.

The first time you log into PlateSpin Forge, the browser is automatically redirected to the License Activation page. You have two options for activating your product license: online or offline.

## 1.2 Online License Activation

For online activation, PlateSpin Forge must have Internet access.

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**NOTE:** HTTP proxies might cause failures during online activation. Offline activation is recommended for users in HTTP proxy environments.

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- 1 In the PlateSpin Forge Web Client, click *Settings > Licenses > Add License*. The License Activation page is displayed.



- 2 Select *Online Activation*, specify the e-mail address that you provided when placing your order and the activation code you received, then click *Activate*.

The system obtains the required license over the Internet and activates the product.

## 1.3 Offline License Activation

For offline activation, you obtain a license key over the Internet by using a machine that has Internet access.

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**NOTE:** To obtain a license key, you must have a Novell account. If you are an existing PlateSpin customer and you don't have a Novell account, you must first create one. Use your existing PlateSpin username (a valid e-mail address registered with PlateSpin) as input for your Novell account username.

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- 1** Click *Settings > License*, then click *Add license*. The License Activation page is displayed.
- 2** Select *Offline Activation*.
- 3** Use your hardware ID to create a license key file at the [PlateSpin Product Activation Web Site](http://www.platespin.com/productactivation/ActivateOrder.aspx) (<http://www.platespin.com/productactivation/ActivateOrder.aspx>). This also requires a user name, password, the e-mail address that you provided when placing your order and the activation code you received.
- 4** Type the path to the file or browse to its location and click *Activate*.

The License Key file is saved and the product is activated based on this file.

# Setting Up User Authorization and Authentication

# 2

- ♦ [Section 2.1, “About PlateSpin Forge User Authorization and Authentication,” on page 11](#)
- ♦ [Section 2.2, “Managing PlateSpin Forge Access and Permissions,” on page 12](#)
- ♦ [Section 2.3, “Managing PlateSpin Forge Security Groups and Workload Permissions,” on page 14](#)

## 2.1 About PlateSpin Forge User Authorization and Authentication

The user authorization and authentication mechanism of PlateSpin Forge is based on user roles, and controls application access and operations that users can perform. The mechanism is based on Integrated Windows Authentication (IWA) and its interaction with Internet Information Services (IIS).

The role-based access mechanism enables you to implement user authorization and authentication in several ways:

- ♦ Restrict application access to specific users
- ♦ Allow only specific operations to specific users
- ♦ Grant each user access to specific workloads for performing operations defined by the assigned role

Every PlateSpin Forge instance has the following set of operating system-level user groups that define related functional roles:

- ♦ **Workload Protection Administrators:** Have unlimited access to all features and functions of the application. A local administrator is implicitly part of this group.
- ♦ **Workload Protection Power Users:** Have access to a limited subset of system features and functions, sufficient to maintain day-to-day operation.
- ♦ **Workload Protection Operators:** Have access to most features and functions of the application, with some limitations such as restrictions in the capability to modify system settings related to licensing and security.

When a user attempts to connect to PlateSpin Forge, the credentials provided through the browser are validated by IIS. If the user is not a member of one of the Workload Protection roles, connection is refused. If the user is a local administrator on the Forge Management VM, that account is implicitly regarded as a Workload Protection Administrator.

**Table 2-1** Workload Protection Roles and Permission Details

Workload Protection Role Details	Administrators	Power Users	Operators
Add workload	Allowed	Allowed	Denied

Workload Protection Role Details	Administrators	Power Users	Operators
Remove workload	Allowed	Allowed	Denied
Configure Protection	Allowed	Allowed	Denied
Prepare Replication	Allowed	Allowed	Denied
Run (Full) Replication	Allowed	Allowed	Allowed
Run Incremental	Allowed	Allowed	Allowed
Pause/Resume Schedule	Allowed	Allowed	Allowed
Test Failover	Allowed	Allowed	Allowed
Failover	Allowed	Allowed	Allowed
Cancel Failover	Allowed	Allowed	Allowed
Abort	Allowed	Allowed	Allowed
Dismiss (Task)	Allowed	Allowed	Allowed
Settings (All)	Allowed	Denied	Denied
Run Reports/Diagnostics	Allowed	Allowed	Allowed
Failback	Allowed	Denied	Denied
Reprotect	Allowed	Allowed	Denied

In addition, PlateSpin Forge software provides a mechanism based on *security groups* that define which OS-level users should have access to which workloads in the PlateSpin Forge workload inventory.

Setting up a proper role-based access to PlateSpin Forge involves two tasks:

- 1 Adding OS-level users to the required user groups detailed in [Table 2-1](#).
- 2 Creating application-level security groups that associate these users with specified workloads.

## 2.2 Managing PlateSpin Forge Access and Permissions

- ♦ [Section 2.2.1, “Accessing the PlateSpin Forge Server Administration Interface,”](#) on page 12
- ♦ [Section 2.2.2, “Adding PlateSpin Forge Users,”](#) on page 13
- ♦ [Section 2.2.3, “Assigning a Workload Protection Role to a PlateSpin Forge User,”](#) on page 13
- ♦ [Section 2.2.4, “Changing the PlateSpin Forge Administrator Password,”](#) on page 14

### 2.2.1 Accessing the PlateSpin Forge Server Administration Interface

To access the Web User Interface for Microsoft Windows Server administration:

- 1 Open a Web browser and go to `https://IP_address:8098`  
Replace *IP\_address* with the IP address of the Forge Management VM.

Your browser connects to the server and displays the default Welcome page.

**Figure 2-1** Web User Interface for Microsoft Windows Server Administration



## 2.2.2 Adding PlateSpin Forge Users

Use the procedure in this section to add a new PlateSpin Forge user.

If you want to grant specific role permissions to an existing user on the Forge Management VM, see [“Assigning a Workload Protection Role to a PlateSpin Forge User” on page 13](#).

- 1 Access your Forge Management VM’s Server Administration Web User Interface. See [“Accessing the PlateSpin Forge Server Administration Interface” on page 12](#).
- 2 Click *Users > Local Users*.  
The Local Users on Server page opens.
- 3 Under *Tasks*, click *New*, then type a username, a password, and other optional information.
- 4 Click *OK*.  
The Local Users on Server page reloads.

You can now assign a workload protection role to the newly created user. See [“Assigning a Workload Protection Role to a PlateSpin Forge User” on page 13](#).

## 2.2.3 Assigning a Workload Protection Role to a PlateSpin Forge User

Before assigning a role to a user, determine the collection of permissions that best suits that user. See [Table 2-1, “Workload Protection Roles and Permission Details,” on page 11](#).

- 1 Access your Forge Management VM’s Server Administration Web User Interface. See [“Accessing the PlateSpin Forge Server Administration Interface” on page 12](#).
- 2 Click *Users > Local Groups*.  
The Local Groups on Server page opens.

- 3 In the list of groups, select the required workload protection group, then click *Properties* under *Tasks*.

The corresponding group property page opens.

- 4 Click *Members*, select the required user from the list, and then click *Add*.

The selected user is added to the *Members* list.

- 5 Click *OK*.

You can now add this user to a PlateSpin Forge security group and associate a specified collection of workloads. See [“Managing PlateSpin Forge Security Groups and Workload Permissions” on page 14](#).

## 2.2.4 Changing the PlateSpin Forge Administrator Password

To change the password of the Forge Management VM’s Administrator account:

- 1 Access your Forge Management VM’s Server Administration Web User Interface. See [“Accessing the PlateSpin Forge Server Administration Interface” on page 12](#).
- 2 Click *Set Administrator Password*, type the new password, confirm it, then click *OK*.

## 2.3 Managing PlateSpin Forge Security Groups and Workload Permissions

PlateSpin Forge provides a granular application-level access mechanism that allows specific users to carry out specific workload protection tasks on specified workloads. This is accomplished by setting up *security groups*.

To set up a security group:

- 1 Assign a PlateSpin Forge user a Workload Protection Role whose permissions best suit that role in your organization. See [“Assigning a Workload Protection Role to a PlateSpin Forge User” on page 13](#).
- 2 Access PlateSpin Forge as administrator using the PlateSpin Forge Web Client, then click *Settings > Permissions*.  
The Security Groups page opens:
- 3 Click *Create Security Group*.
- 4 In the *Security Group Name* field, type a name for your security group.
- 5 Click *Add Users* and select the required users for this security group.

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**NOTE:** If you want to add a PlateSpin Forge user that was recently added as an OS-level user to the Forge Management VM, it might not be immediately available in the user interface. In this case, first click *Refresh User Accounts*.

---

**Choose users to grant access to this group:**

Grant	Name	Roles
<input checked="" type="checkbox"/>	ADLER\operator1	Workload Protection Operator

OK Cancel

- 6 Click *Add Workloads* and select the required workloads:

**Choose workloads to include in this group:**

Include	Workload Name	Security Group
<input checked="" type="checkbox"/>	WIN7-PC	BCM Operators
<input type="checkbox"/>	10.99.161.227	[Unassigned]
<input type="checkbox"/>	AE-W2K3-1	[Unassigned]
<input checked="" type="checkbox"/>	AE-W2K3-3	[Unassigned]
<input checked="" type="checkbox"/>	AE-W2K3-4	[Unassigned]
<input type="checkbox"/>	AE-W2K3-4Y	[Unassigned]
<input type="checkbox"/>	AE-W2K3-5	[Unassigned]
<input type="checkbox"/>	DI-w2k3Dyntar	[Unassigned]

OK Cancel

Only users in this security group will have access to the selected workloads.

- 7 Click *Create*.

The page reloads and displays the your new group in the list of security groups.

To edit a security group, click its name in the list of security groups.





# Access and Communication Requirements across your Protection Network

# 3

- [Section 3.1, “Access and Communication Requirements for Workloads,” on page 17](#)
- [Section 3.2, “Protection Across Public and Private Networks Through NAT,” on page 18](#)

## 3.1 Access and Communication Requirements for Workloads

The following are software, network, and firewall requirements for workloads that you intend to protect using PlateSpin Forge.

**Table 3-1** Access and Communication Requirements for Workloads

Workload Type	Prerequisites	Required Ports
Windows 7; Windows Server 2008; Windows Vista	<ol style="list-style-type: none"><li>1. Built-in Administrator or domain admin account credentials (membership only in the local Administrators group is insufficient). On Vista, the account must be enabled (it is disabled by default).</li><li>2. The Windows Firewall configured with the following Inbound Rules enabled and set to Allow:<ul style="list-style-type: none"><li>♦ File and Printer Sharing (Echo Request - ICMPv4In)</li><li>♦ File and Printer Sharing (Echo Request - ICMPv6In)</li><li>♦ File and Printer Sharing (NB-Datagram-In)</li><li>♦ File and Printer Sharing (NB-Name-In)</li><li>♦ File and Printer Sharing (NB-Session-In)</li><li>♦ File and Printer Sharing (SMB-In)</li><li>♦ File and Printer Sharing (Spooler Service - RPC)</li><li>♦ File and Printer Sharing (Spooler Service - RPC-EPMAP)</li></ul></li></ol>	TCP 3725 NetBIOS 137 - 139 SMB (TCP 139, 445 and UDP 137, 138) TCP 135/445
These firewall settings are configured by using the Windows Firewall with Advanced Security utility ( <code>wf.msc</code> ). You can achieve the same result by using the basic Windows Firewall utility ( <code>firewall.cpl</code> ): select the <i>File and Printer Sharing</i> item in the list of exceptions.		

Workload Type	Prerequisites	Required Ports
Windows Server 2003; Windows Server 2000; Windows XP; Windows NT 4	<ul style="list-style-type: none"> <li>Windows Management Instrumentation (WMI) installed</li> </ul> <p>Windows NT Server does not include WMI as part of the default installation. Obtain the WMI Core from the Microsoft Web site. If WMI is not installed, discovery of the workload fails.</p> <p>WMI (RPC/DCOM) can use TCP ports 135 and 445 as well as random or dynamically assigned ports above 1024. If problems occur during the discovery process, consider temporarily placing the workload in a DMZ or temporarily opening the firewalled ports for the discovery process only.</p> <p>For additional information, such as guidance in limiting the port range for DCOM and RPC, see the following Microsoft technical articles.</p> <ul style="list-style-type: none"> <li>Using DCOM with Firewalls (<a href="http://msdn.microsoft.com/en-us/library/ms809327.aspx">http://msdn.microsoft.com/en-us/library/ms809327.aspx</a>)</li> <li>Configuring RPC dynamic port allocation to work with firewalls (<a href="http://support.microsoft.com/default.aspx?scid=kb;en-us;154596">http://support.microsoft.com/default.aspx?scid=kb;en-us;154596</a>)</li> <li>Configuring DCOM to work over a NAT-based firewall (<a href="http://support.microsoft.com/kb/248809">http://support.microsoft.com/kb/248809</a>)</li> </ul>	<p>TCP 3725</p> <p>NetBIOS 137 - 139</p> <p>SMB (TCP 139, 445 and UDP 137, 138)</p> <p>TCP 135/445</p>
All Linux workloads	Secure Shell (SSH) server	TCP 22, 3725

## 3.2 Protection Across Public and Private Networks Through NAT

<<>>

# Configuring PlateSpin Forge Default Options

# 4

- ♦ [Section 4.1, “Setting Up Automatic E-Mail Notifications of Events and Reports,” on page 19](#)
- ♦ [Section 4.2, “Language Setup for International Versions of PlateSpin Forge,” on page 21](#)
- ♦ [Section 4.3, “Configuring the Product Behavior through .config Parameters,” on page 22](#)
- ♦ [Section 4.4, “Restarting the PlateSpin Forge Server to Apply System Changes,” on page 24](#)

## 4.1 Setting Up Automatic E-Mail Notifications of Events and Reports

You can configure PlateSpin Forge to automatically send out, to specified e-mail addresses, notifications of events and replication reports. This functionality requires that you first specify a valid SMTP server for PlateSpin Forge to use.

- ♦ [Section 4.1.1, “SMTP Configuration,” on page 19](#)
- ♦ [Section 4.1.2, “Setting up Automatic Event Notifications by E-Mail,” on page 20](#)
- ♦ [Section 4.1.3, “Setting up Automatic Replication Reports by E-Mail,” on page 21](#)

### 4.1.1 SMTP Configuration

Use the PlateSpin Forge Web Client to configure SMTP (Simple Mail Transfer Protocol) settings for the server used to deliver e-mail notifications of events and replication reports.

**Figure 4-1** Simple Mail Transfer Protocol settings

SMTP Settings		Save
SMTP Server Address:	<input type="text"/>	
Port:	<input type="text" value="25"/>	
Reply Address:	<input type="text"/>	
Username:	<input type="text"/>	
Password:	<input type="text"/>	
Confirm:	<input type="text"/>	

To configure SMTP settings:

- 1 In your PlateSpin Forge Web Client, click *Settings* > *SMTP*.
- 2 Specify an SMTP server *Address*, an optional *Port* (the default is 25), and a *Reply Address* for receiving e-mail event and progress notifications.

- 3 Type a *Username* and *Password*, then confirm the password.
- 4 Click *Save*.

## 4.1.2 Setting up Automatic Event Notifications by E-Mail

To set up automatic e-mail notifications of important events, follow these steps:

- 1 Set up an SMTP server for PlateSpin Forge to use. See [SMTP Configuration](#).
- 2 In your PlateSpin Forge Web Client, click *Settings* > *Email* > *Notification Settings*.
- 3 Select the *Enable Notifications* option.
- 4 Click *Edit Recipients*, type the required e-mail addresses separated by commas, and click *OK*.
- 5 Click *Save*.

To delete listed e-mail addresses, click *Delete* next to the address that you want to remove.

The following are events that trigger e-mail notifications:

Event	Remarks
Workload Online Detected	Generated when the system detects that a previously offline workload is now online.  Applies to workloads whose protection schedule's state is not <i>Paused</i> .
Workload Offline Detected	Generated when the system detects that a previously online workload is now offline.  Applies to workloads whose protection schedule's state is not <i>Paused</i> .
Incremental Replication Failed	
Full Replication Failed	
Test Failover Completed	Generated upon manually marking a Test Failover operation a success or a failure.
Failover Completed	
Prepare Failover Completed	
Prepare Failover Failed	
Failover Failed	

Event	Remarks
Incremental Replication Missed	<p>Generated when:</p> <ul style="list-style-type: none"> <li>♦ A replication is manually paused while a scheduled incremental replication is due.</li> <li>♦ The system attempts to carry out a scheduled incremental replication while a manually-triggered replication is underway.</li> <li>♦ The system determines that the target has insufficient free disk space.</li> </ul>
Full Replication Missed	Similar to the Incremental Replication Missed event above.

### 4.1.3 Setting up Automatic Replication Reports by E-Mail

To set up PlateSpin Forge to automatically send out replication reports by e-mail, follow these steps:

- 1 Set up an SMTP server for PlateSpin Forge to use. See [SMTP Configuration](#).
- 2 In your PlateSpin Forge Web Client, click *Settings > Email > Replication Reports Settings*.
- 3 Select the *Enable Replication Reports* option.
- 4 In the *Report Recurrence* section, click *Configure* and specify the required recurrence pattern for the reports.
- 5 In the *Recipients* section, click *Edit Recipients*, type the required e-mail addresses separated by commas, and click *OK*.
- 6 In the *Protect Access URL* section, specify, if required, a non-default URL for your PlateSpin Forge Server (for example, when your Forge Management VM has more than one NIC or if is located behind a NAT server). This URL impacts the title of the report and the functionality of accessing relevant content on the server through hyperlinks within e-mailed reports.
- 7 Click *Save*.

For information on other types of reports that you can generate and view on demand, See “[Generating Workload and Workload Protection Reports](#)” in your *User Guide*.

## 4.2 Language Setup for International Versions of PlateSpin Forge

PlateSpin Forge provides National Language Support (NLS) for the following languages: Chinese Simplified, Chinese Traditional, French, German, and Japanese.

To use the PlateSpin Forge Web Client and integrated help in one of these languages, the corresponding language must be added in your Web browser and moved to the top of the order of preference:

- 1 Do the following:
  - ♦ **Internet Explorer:** Click *Tools > Internet Options > General tab > Languages*.
  - ♦ **Firefox:** Click *Tools > Options > Content tab > Languages*.

- 2 Add the required language and move it up the top of the list.
- 3 Save the settings, then start the client application by connecting to your PlateSpin Forge Server. See [“Launching the PlateSpin Forge Web Client”](#) in your *User Guide*.

---

**NOTE:** (For users of Chinese Traditional and Chinese Simplified versions) Attempting to connect to the PlateSpin Forge Server with a browser that does not have a specific version of Chinese added might result in Web server errors. For correct operation, use your browser’s configuration settings to add a specific Chinese language (for example, Chinese [zh-cn] or Chinese [zh-tw]). Do not use the culture-neutral Chinese [zh] language.

---

The language of a small portion of system messages generated by the PlateSpin Forge Server depends on the operating system interface language selected in your Forge Management VM:

- 1 Access your Forge Management VM.  
See [“Accessing and Working with the Forge Management VM in the Appliance Host”](#) in your *Appliance Setup and Maintenance Guide*.
- 2 Start the Regional and Language Options applet (click *Start > Run*, type `intl.cpl`, and press Enter), then click the *Languages* (Windows Server 2003) or *Keyboards and Languages* (Windows Server 2008) tab, as applicable.
- 3 If not already installed, install the required language pack. You might need access to your OS installation media.
- 4 Select the required language as the interface language of the operating system. When prompted, log off or restart the system.

## 4.3 Configuring the Product Behavior through .config Parameters

Certain aspects of your PlateSpin Forge Server’s behavior are controlled by configuration parameters that are read from saved `.config` files on your Forge Management VM.

Under normal circumstances you should not need to modify these settings unless so advised by PlateSpin Support. This section provides a number of most-common use cases along with information on the required procedure to follow.

The following is the standard procedure for changing and applying any `.config` parameters:

- 1 On your Forge Management VM, go to the indicated directory.
  - 2 Use a text editor to open the `.config` file.
  - 3 Locate the required parameter in the `.config` file and change its value, which is enclosed in quotation marks (""). Do not remove the quotation marks. Use acceptable values indicated in this section or as advised by PlateSpin Support.
  - 4 Save and close the `.config` file.
  - 5 Restart the PlateSpin Forge Server. See [“Restarting the PlateSpin Forge Server to Apply System Changes”](#) on page 24.
- ♦ [Section 4.3.1, “Parameters for Optimizing Transfers over WAN Connections,”](#) on page 23
  - ♦ [Section 4.3.2, “Parameters for Enabling SSL Communication,”](#) on page 24
  - ♦ [Section 4.3.3, “Parameters for Imposing a Replication Blackout Window,”](#) on page 24

## 4.3.1 Parameters for Optimizing Transfers over WAN Connections

Use these settings to optimize transfers across a Wide Area Network. These settings are global and affect all replications using the file-based and VSS replications.

- ♦ **Configuration file:** `productinternal.config`
- ♦ **Location:** `Program Files\PlateSpin Forge Server\Web`

For information on the update procedure, see [“Configuring the Product Behavior through .config Parameters” on page 22](#).

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**NOTE:** Local gigabit LAN replication speeds might be negatively impacted if these values are modified.

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[Table 4-1](#) lists the configuration parameters with the defaults and with the values recommended for optimum operation in a high-latency WAN environment.

**Table 4-1** *Default and Optimized Configuration Parameters in `productinternal.config`*

Parameter	Default Value	Optimized Value
<code>fileTransferThreadcount</code>	2	4 to 6
Controls the number of TCP connections opened for file-based data transfer.		
<code>fileTransferMinCompressionLimit</code>	0 (disabled)	max 65536 (64 KB)
Specifies the packet-level compression threshold in bytes.		
<code>fileTransferCompressionThreadsCount</code>	2	N/A
Controls the number of threads used for packet-level data compression. This is ignored if compression is disabled. Because the compression is CPU-bound, this setting might have a performance impact.		
<code>fileTransferSendReceiveBufferSize</code>	0 (8192 bytes)	max 5242880 (5 MB)
TCP/IP window size setting for file transfer connections. It controls the number of bytes sent without TCP acknowledgement, in bytes.		
When the value is set to 0, the default TCP window size is used (8 KB). For custom sizes, specify the size in bytes. Use the following formula to determine the proper value:		
$((\text{LINK\_SPEED}(\text{Mbps})/8) * \text{DELAY}(\text{sec})) * 1024 * 1024$		
For example, for a 100 Mbps link with 10 ms latency, the proper buffer size would be:		
$(100/8) * 0.01 * 1024 * 1024 = 131072 \text{ bytes}$		

### 4.3.2 Parameters for Enabling SSL Communication

Use these settings to enable SSL communication between the PlateSpin Forge Web Client and the server, on which you enabled SSL *after* installing the product. If SSL was enabled on the server host at the time of the product's installation, this is not required.

- ♦ **Configuration file:** `Platespin.Config`
- ♦ **Location:** `Program Files\PlateSpin Forge Server\Configs`
- ♦ **Value:** Change

`http://localhost:80/PlateSpinMigrate`  
to  
`https://localhost:443/PlateSpinMigrate`

For information on the update procedure, see [“Configuring the Product Behavior through .config Parameters” on page 22.](#)

### 4.3.3 Parameters for Imposing a Replication Blackout Window

Use these settings to force a replication blackout. Consider implementing this capability for suspending scheduled replications during peak utilization hours or to prevent conflicts between VSS-aware Windows applications and the VSS block-level data transfer component.

- ♦ **Configuration file:** `PlateSpin.Protection.Scheduler.Service.dll.config`
- ♦ **Location:** `Program Files\PlateSpin Forge Server\services\PlateSpinService\Plugins`
- ♦ **Values:** This parameter comprises two values:
  - ♦ `Workload_Scheduling_Blackout_Window_Start`: Defines the time for the start of the suspension. Use the following format:  
`HH:MM:SS (HH 00-23, MM 00-59, SS 00-59)`
  - ♦ `Workload_Scheduling_Blackout_Window_Length`: Defines the duration of the suspension period. Use the following format:  
`HH:MM:SS (HH 00-23, MM 00-59, SS 00-59)`

For information on the update procedure, see [“Configuring the Product Behavior through .config Parameters” on page 22.](#)

## 4.4 Restarting the PlateSpin Forge Server to Apply System Changes

- 1 Go to the PlateSpin Forge Server's `bin\RestartPlateSpinServer` subdirectory.  
See [“Accessing and Working with the Forge Management VM in the Appliance Host”](#) in your *Appliance Setup and Administration Guide*.
- 2 Double-click the `RestartPlateSpinServer.exe` executable.  
A command prompt window opens, requesting confirmation.
- 3 Confirm by typing `Y` and pressing `Enter`.