

JMPS Simplified Load and Installation for Computers (J-SLIC) User's Guide For JMPS Enterprise Lite Servers

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Revision History

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1. Introduction

The JMPS Simplified Load and Installation for Computers (J-SLIC) is an automated deployment method for JMPS. It has been designed to minimize the required user interaction during the installation while producing consistent loads across the JMPS User Community. The J-SLIC process will load the basic system components, JMPS required applications, the JMPS software, and 3rd party software required for JMPS Enterprise Lite Server operation. This document outlines the setup instructions for the J-SLIC load.

2. Necessary Items

The following items will be required:

- J-SLIC Server DVD (this DVD is bootable)
- JMPS Installation CD (a default version of JMPS is provided on the DVD however, if desired or needed, a different version can be loaded)
- JMPS Server Loading and Configuration document v. 1.6

3. System Configuration

The J-SLIC Server Load will install Windows 2000 Advanced Server, the necessary system drivers, COE, the required JMPS COE Segments, and all 3rd party software necessary for JMPS system operation. The system hard disks will be configured in the standard COE 3 partition scheme (C: System, D: Segments and E: Data).

4. Customization

This image will provide the basic operating system and software components. It is assumed that the system administrator will perform all the necessary post-install custom setup and configuration. These custom details will include some of the following items:

1. Setup of JMPS User accounts
2. Assignment of default printer(s)
3. Norton virus definition updates (if required), scheduling of virus scans
4. Map Data additions / updates

5. J-SLIC Server Loading Procedure

NOTE

These procedures will cause the existing contents of the target hard drive to be completely overwritten. Ensure that all the necessary data has been backed up from the target drive prior to execution.

Operator must have a printed version of this manual and JMPS Server Loading and Configuration Manual v1.6 in order to complete the process.

1. Turn on the server and place the Server J-SLIC bootable DVD into the DVD drive.
2. After about 30 seconds the following will appear on the screen:

JMPS J-SLIC Server Installer v0.2d

- 0) Exit J-SLIC installer and preserve existing JMPS installation, if any
- 1) Configure DL380 BIOS and RAID controller
- 2) Perform JMPS server load using the J-SLIC installer

Type your choice (0, 1, or 2) at the prompt and press the “Enter” key ...

boot:

3. Press 1 to configure the DL380 BIOS and RAID controller and press the “Enter” key.
4. After some diagnostic messages, the following will appear on the screen:

Configuring DL380 BIOS. Please Wait ...
BIOS Configuration completed successfully!

Configuring DL380 RAID Controller:
Type 1 for 36 GB drives or type 2 for 72 GB drives --->

5. Select the right hard drive choice based on the current server configuration. There is no need to press the Enter key after inputting the right choice. *Note: Older DL380 servers were purchased with 36 GB drives. Newer ones came with 72 GB drives.*
6. DL380 RAID controller will be automatically configured and the server will reboot itself.
7. After rebooting, the server will go to the initial boot screen with 3 choices shown in step 2.
8. This time, press 2 to perform JMPS server load and press the “Enter” key.
9. After some diagnostic messages, a PowerQuest ImageCenter window will appear. The window will show the progress of the server image restore.

10. This process will take more than 40 minutes! Wait for the process to complete.
11. When finished, the server will automatically eject the J-SLIC bootable DVD and will reboot itself.
12. At this point, the J-SLIC bootable DVD can be taken out of the drive.
13. Windows 2000 Server Setup window will come up. Enter the name and organization and click Next.
14. *Note: The licensing Mode screen will flash by and will show only 5 Windows CALs (Client Access Licenses). In reality, there are 25. It is only that screen that temporarily shows 5 licenses.*
15. Server will reboot itself and automatically continue. JSLIC screen will appear after an automatic logon. There is a 60 second wait after every reboot to synchronize system processes before JSLIC can continue.
16. Select the Classification level and click OK.
17. Click Continue.
18. Set keyman and secman passwords.
19. Set the time zone and time and click OK.
20. Click Continue. Change Machine ID / Network Card Settings screen will appear.
 - a. Change computer name from JMPSMSTR to the desired name. The name must be less than 8 characters long and cannot contain underscores.
 - b. Enter the new IP address.
 - c. Enter the new Subnet Mask, if different.
 - d. Enter the new Default Gateway.
 - e. Enter the new Preferred DNS Server. **NOTE: THIS MUST BE THE SAME AS THE IP ADDRESS OF THE SERVER IN STEP (a).**
 - f. Enter the new Alternate DNS Server if needed.
 - g. Do not check the DHCP box.
21. Click OK when done.
22. Click Continue. Server will automatically reboot.
23. When JSLIC continues, a window will come up with the following message:

In the next four windows that come up, carefully enter the information necessary to set up this server. Please double-check the answers to make sure they are correct. If a mistake is made, it may be necessary to restart the JSLIC process!

24. Carefully read the message and acknowledge by clicking OK.
25. A window will come up with the following message:

Please enter the fully qualified name of this JMPS domain and click OK. An example of a full JMPS domain name is
jmps.philly.navy.smil.mil

26. Carefully read the message and enter the fully qualified name for the JMPS domain that is being configured. An example of a fully qualified domain name is jmps.chinalake.navy.smil.mil or jmpslite.ptmugu.navy.smil.mil.
27. A window will come up with the following message:

Please enter the NetBIOS domain name and click OK. For example, if the fully qualified domain name is jmpstest.philly.navy.smil.mil, NetBIOS domain name is jmpstest

28. Carefully read the message and enter the NetBIOS domain name for the JMPS domain that is being configured. The NetBIOS domain name is NOT the same as the server name. It is the first part of the fully qualified domain name. For example, if the fully qualified domain name is jmpslite.mugu.navy.smil.mil, the NetBIOS domain name is jmpslite.
29. A window will come up with the following message:

Please enter the reverse DNS lookup zone and click OK. For example, if the IP address of this server is 123.219.178.101, the reverse DNS lookup zone will be 178.219.123

30. Carefully read the message and enter the reverse DNS lookup zone of the JMPS domain that is being configured.
31. A window will come up with the following message:

Please enter the IP address of the DNS forwarder

32. Carefully read the message and enter the IP address of the DNS forwarder of the JMPS domain that is being configured. On a ship, this may be a GOTS/DELTA system or any other existing DNS server with access to the outside network.
33. A window will come up with the following message:

Active Directory will now be installed. Automatic login will be temporarily disabled and the Administrator may have to log into the domain manually once. User ID: Administrator Password:
#Admin02

34. Carefully read the message and acknowledge by clicking OK.
35. Server will install Active Directory and automatically reboot.
36. Once the server comes up, a standard Windows 2000 logon window will appear. Enter "Administrator" for the User name and "#Admin02" for the Password and click OK to log in.
37. After the 60 second wait, JSLIC will automatically continue. No user interaction is necessary. Windows Components Wizard will temporarily appear and then the server will reboot automatically.
38. When the server reboots, verify correct drive letter assignment. C: should be System, D: should be Segments, and E: (if present) should be Data. If D and E are switched, use Enterprise Administrator (Volume Manager) to assign the correct drive letter. See Appendix A for instructions on using Volume Manager to switch drive letters.
39. A window will come up with the following message:

Please follow instructions in section 6.22.1 of the JMPS server load manual in order to install Microsoft Security Configuration

Templates COE Segment. \n Server will be rebooted as part of procedure 6.22.1.

40. Carefully read the message and acknowledge by clicking OK.
41. A window will come up with the following message:

Automatic logon will be disabled and from now on. The Administrator will have to log into the domain manually. \n User ID: Administrator \n Password: #Admin02.

42. Carefully read the message and acknowledge by clicking OK.
43. Follow directions in section 6.22.1 of the JSLIC Server Loading and Configuration Manual v. 1.6 to install Microsoft Security Configuration Templates COE Segment. Execute all steps in the sub-procedure.
44. Once the server reboots, click OK to acknowledge the United States Department of Defense Warning Statement.
45. Administrator will be automatically logged in and JSLIC will continue. *Note: From this point on, Service Control Manager warning window may appear. This is normal and will not affect system performance. Click OK to acknowledge.*
46. A window will come up with the following message:

Please follow instructions in sections 6.22.2 and 6.22.3 of the JMPS server load manual in order to modify folder permissions and apply domain and domain controller security policies. Server will be rebooted as part of the procedures.

47. Carefully read the message and acknowledge by clicking OK.
48. A window will come up with the following message:

Steps 18-23 of section 6.22.3 instruct to refresh security policies. This will be done automatically after the next reboot.

49. Carefully read the message and acknowledge by clicking OK.
50. Follow instructions in section 6.22.2 to reset permissions on the Documents and Settings folder. Occasionally, this procedure may not remove the Everyone group. Remove it manually by clicking on the Everyone Permission Entry in the Access Control Settings window and then clicking on the Remove button.
51. Follow instructions in section 6.22.3 to import domain and domain controller security policies. Perform steps 1 – 17. In step 17, manually restart the server. Steps 18-23 will be performed after the reboot.
52. Once the server reboots, click OK to acknowledge the United States Department of Defense Warning Statement.
53. Once the server comes up, a standard Windows 2000 logon window will appear. Enter “Administrator” for the User name and “#Admin02” for the Password and click OK to log in.
54. After the 60 second wait, JSLIC will automatically continue.
55. A window will come up with the following message:

Refreshing security policy ... Click OK now and Wait 5 minutes!

56. Carefully read the message and acknowledge by clicking OK. After 5 minutes, JSLIC will continue. Be patient!
57. A window will come up with the following message:

Please follow instructions in section 6.22.4 of the JMPS server load manual in order to remove POSIX and OS/2 files. Server will automatically reboot!

58. Carefully read the message and acknowledge by clicking OK.
59. Click OK and follow instructions in section 6.22.4 to remove POSIX and OS/2 files. Server will automatically reboot.
60. Once the server reboots, click OK to acknowledge the United States Department of Defense Warning Statement.
61. Once the server comes up, a standard Windows 2000 logon window will appear. Enter "Administrator" for the User name and "#Admin02" for the Password and click OK to log in.
62. After the 60 second wait, JSLIC will automatically continue.
63. A window will come up with the following message:

Please create a LUN on the Ciprico RAID now according to instructions in section 6.10 of the JMPS server load document.

64. Carefully read the message and acknowledge by clicking OK.
65. Follow instructions in section 6.10.2 to create a 6-drive LUN on the Ciprico RAID. Perform steps 27-43.
66. A window will come up with the following message:

Please follow instructions in sections 6.23.1 - 6.23.5 of the JMPS server load manual in order to make additional security policy changes. Then click OK and manually reboot when finished!

67. Carefully read the message and acknowledge by clicking OK.
68. Follow instructions in section 6.23.1 to apply Task Scheduler and Event Viewer fix.
69. Perform steps in section 6.23.2 to modify domain security policy to allow users to log on as batch job and log on as service.
70. Perform steps in section 6.23.3 to give SYSTEM full control to Indexing Service, Internet Connection Sharing, Irmon, and NetMeeting Remote Desktop Sharing services.
71. Perform steps in section 6.23.4 to make additional domain controller security policy changes.
72. Perform steps in section 6.23.5 to install JMPS_DC_Spike_Fix.inf security template to modify Active Directory replication frequency.
73. Manually reboot the server when finished with section 6.23.5.
74. Once the server reboots, click OK to acknowledge the United States Department of Defense Warning Statement.

75. Once the server comes up, a standard Windows 2000 logon window will appear. Enter "Administrator" for the User name and "#Admin02" for the Password and click OK to log in.
76. After the 60 second wait, JSLIC will automatically continue.
77. A window will come up with the following message:

Please create a data volume on the Ciprico RAID using Veritas Volume Manager and click OK when finished. \n DO NOT CLICK OK UNTIL THE E DRIVE IS VISIBLE IN WINDOWS EXPLORER!

78. Carefully read the message! DO NOT CLICK OK until all steps in section 6.13.2 are completed. Procedures in section 6.13.2 will create an E: drive that is necessary for JSLIC to continue. **Note: If the CD-ROM is using the E: drive letter, use Volume Manager to rename the CD-ROM to F:.**
79. After completing the steps, click OK.
80. A window will come up with the following message:

In the next window that comes up, carefully enter information necessary to change the Administrator account password on this server.

81. Carefully read the message and acknowledge by clicking OK.
82. A window will come up with the following message:

Please enter a new administrator password that meets COE and Windows 2000 complexity requirements.

83. Carefully read the message and enter a new Administrator password. After the password is entered, no checking to verify whether this password meets COE and Windows complexity requirements is actually performed. It is up to the user to know the complexity requirements and to choose a password that meets them. For reference, complexity requirements required by COE are listed below:

- A. A user account password must not contain a substring which includes the user account name.
- B. A user account password must not contain a substring which includes the reverse and/or circular shift of the user account name.
- C. Two out of the following three conditions must be met:
 - a. The password must contain at least one numeric character.
 - b. The password must contain at least one special character. Special characters include the following set: ! @ # \$ % ^ & * () _ - + = . /
 - c. The password must contain at least one case change (i.e., one uppercase letter and one lowercase letter).
- D. The password must not contain the following characters: [] , ; :

84. A window will come up with the following message:

The Administrator account password has been changed to
NewAdministratorPassword.

85. Carefully read the message and acknowledge by clicking OK. *Note: The actual chosen password will be shown instead of "NewAdministratorPassword"*
86. After clicking OK approximately 120 seconds will pass and JMPS installation will launch.
87. Default options for the domain controller JC1 setup are automatically chosen and installation will proceed without user input. *Note: A JMPS Setup window about Files in Use **may** come up saying that JSlicLoadS is being used. Click Ignore to continue.*
88. When JMPS Program files are installed, JMPS Data installation will start.
89. Click Next to start the installation.
90. Select Complete and click Next.
91. Click Install to install JMPS Data.
92. When installation is complete (10+ minutes), click Finish to close all JMPS installation windows.
93. On the window that comes up, click OK to reboot the computer.

At this point, JSLIC processing is over and the rest of the steps in the JMPS server setup are manual. They are briefly described below. For more information, follow the detailed instructions in the respective sections in the JMPS server load manual v. 1.6

94. Follow procedures in section 6.27.3 to install the JMPS Framework and JMPS Framework Data COE segments.
95. Follow procedures in section 6.27.4 to configure the Active Directory schema.
96. Follow procedures in section 6.28.1 to apply additional security lockdown policies.
97. Rename the IIS management account by following the steps below:
 - a. Open Active Directory Users and Computers.
 - b. Expand the domain name in the left pane and then expand the Users folder.
 - c. Right-click on the IUSR_JMPSMSTR account name and select Rename.
 - d. Rename IUSR_JMPSMSTR to IUSR_*JMPSSERVERNAME*, where *JMPSSERVERNAME* is the name of the current JMPS server. For example, if server name is JMPSSENT1, IUSR_JMPSMSTR should be renamed to IUSR_JMPSSENT1.
 - e. Press the Enter key when done. A Rename User window will appear.
 - f. In the bottom right corner rename the logon name to IUSR_*JMPSSERVERNAME* according to instructions above.
 - g. Click OK when done.
 - h. A warning message from Active Directory will come stating that Windows cannot validate the uniqueness of the proposed user name.
 - i. Click OK to acknowledge.
98. Follow procedures in section 6.28.2 to configure the FTP server. In step 5, the correct Username must be substituted for IUSR_JMPSMSTR.
 - a. Click on the Browse button.
 - b. Double-click on the IUSR_*JMPSSERVERNAME* account name and click OK.

- c. Click Apply on the JMPS FTP Server Properties window for changes to take effect. The Password field will automatically fill with a password.
 - d. Continue with the rest of the steps in section 6.28.2.
99. Follow procedures in section 6.28.4 to configure the SNMP zone.
100. Follow procedures in section 6.28.5 to install IAVA patches.
101. Remove JMPSMSTR\Administrator account from MSDE Security by following the steps below:
- a. Log in as a member of the JmpsSecurityAdministrator group. Note: This can also be a Windows domain administrator as long as the Windows domain administrator is a member of the JmpsSecurityAdministrator group.
 - b. Go to JMPS Admin → DB Maintenance.
 - c. Click on the MSDE security tab.
 - d. Click on the JMPSMSTR\Administrator account and click on Remove.
 - e. Click on Apply Security.
 - f. Click Close to exit the tool.
102. Reset internal SQL server name using the following steps:
- a. From the Start menu, click Programs → Microsoft SQL Server → Query Analyzer. The Connect to SQL Server dialog box displays.
 - b. Click the ellipsis (...). Select the correct server from the listing. Server name will appear as *SERVERNAME\JMPS_SQL_SERVER*.
 - c. Click Windows authentication. Click OK to continue.
 - d. In the Query dialog box, type “sp_helpserver” (without the double quotes) and press F5 to execute. This command shows the name of the instance needed for the next step. JMPSMSTR\JMPS_SQL_SERVER will be shown. Be careful to type the commands exactly as instructed in this manual. If an error message is displayed, erase the previous text in the query dialog box in the top window pane and type the command again.
 - e. If the previous command was successful, erase the previous text (sp_helpserver) in the query dialog box in the top window pane. In the Query dialog box, now type “sp_dropserver ‘JMPSMSTR\JMPS_SQL_SERVER’ ” and press F5 to execute. When the command is successful, messages in the lower window pane that say “(1 row(s) affected)” will be displayed. Otherwise an error message will be displayed. If an error message is displayed, erase the previous text in the query dialog box in the top window pane and type the command again.
 - f. If the previous command was successful, erase the previous text (sp_dropserver ‘JMPSMSTR\JMPS_SQL_SERVER’) in the query dialog box in the top window pane. In the Query dialog box now type the following: “sp_addserver ‘*SERVERNAME\JMPS_SQL_SERVER*’, local” and press F5 to execute. There is a space between the comma and the word “local”. *SERVERNAME* is the name of the current JMPS server.is the name of the current JMPS server.
 - g. Exit Query Analyzer by going to File → Exit. Click the No to All button at the warning message about saving text.
 - h. Stop SQL server by right-clicking on the SQL icon in the system tray and selecting MSSQL Server – Stop. Click Yes to confirm that SQL Server will be stopped. SQL Server Service Manager will come up with a

- message that various services are dependent on SQL Server and will also be stopped. Click Yes to acknowledge.
103. Once the server stops, start it by right-clicking on the SQL icon in the system tray and selecting MSSQL Server – Start.
104. Modify Microsoft SQL Server 2000 Enterprise Manager to display the current SQL server registration by following the steps below:
- a. Go to Start → Programs → Microsoft SQL Server → Enterprise Manager.
 - b. Expand Console Root → Microsoft SQL Servers → SQL Server Group
 - c. One server, JMPSMSTR\JMPS_SQL_SERVER will be listed there.
 - d. Click on JMPSMSTR\JMPS_SQL_SERVER. After a 60 second pause, the server will time out.
 - e. Click on Action → Delete SQL Server Registration.
 - f. Click Yes to remove JMPSMSTR\JMPS_SQL_SERVER from the console.
 - g. Click on Action → New SQL Server Registration. A Register SQL Server Wizard will start.
 - h. Click Next.
 - i. *JMPSERVERNAME*\JMPS_SQL_SERVER will show up in the available servers pane on the left. Double-click on the entry. The server will move to the added servers pane on the right.
 - j. Click Next.
 - k. Select the default Connect using Windows account information and click Next.
 - l. Select the default Add the SQL Server to an existing SQL Server group and click Next.
 - m. Click Finish to add the server. A window stating that the server was registered successfully will come up.
 - n. Click Close.
 - o. Close the SQL Enterprise Manager console.
105. Modify the default Backup Exec 9.0 logon account by following the steps below:
- a. Double-click on the Backup Exec icon on the desktop.
 - b. On the Connect to Media Server window that comes up, click on Services.
 - c. On the Backup Exec Services Manager window that comes up, click on Start all services.
 - d. Click OK when all services are started.
 - e. On the Backup Exec Services Manager window, click on JMPSMSTR to select it and then click on Remove Servers.
 - f. Click Yes to confirm.
 - g. Click Close.
 - h. On the Connect to Media Server, enter the administrator password and click OK.
 - i. Once Backup Exec opens, click on the blue Backup button on the top of the screen. A warning message will come up stating that the default logon account could not be authenticated.
 - j. Click OK to continue. Edit Logon Credentials window will come up.
 - k. Modify the User name to be *Domain_Name*\Administrator, where *Domain_Name* is the name of the current JMPS domain.
 - l. Click the change password button and enter the Administrator password.

- m. Click OK when done.
 - n. Click OK to close the Edit Logon Credentials window.
 - o. Exit Backup Exec.
106. Modify the license key for Volume Manager by following the steps below:
- a. Start Enterprise Administrator.
 - b. Go to Tools → System License
 - c. Enter the new license key (with dashes) and click Replace.
 - d. A warning message will come up asking if the license key should be replaced. Click OK to confirm.
 - e. A status message that the license key was replaced successfully will come up. Click OK to confirm.
 - f. Click Close and exit of out Enterprise Administrator.
107. Follow procedures in section 6.30.2 to add DMP (Dynamic Multi-pathing) support to the Enterprise Lite System
108. Perform additional system administration tasks such as adding accounts, loading any additional JMPS data, updating DAFIF data as needed to configure the JMPS server

