



MetaLib Service Pack

Version 4.3

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1

Overview

This section includes:

- **What is a MetaLib Service Pack?** on page 5
- **How Long Does it Take to Apply a MetaLib Service Pack and Does it Include Downtime?** on page 6
- **Service Pack Uninstall Option** on page 6
- **What is the Service Pack Level?** on page 6
- **What are Service Pack Release and Implementation Notes?** on page 7
- **What is the Service Pack Installation Utility?** on page 12
- **Preparing Your Environment (Util SP-1)** on page 8

What is a MetaLib Service Pack?

A MetaLib Service Pack is a software update that includes all changes made since the last MetaLib version was released. It includes bug fixes, refinements, and features and is a combination of many individual fixes, tested and delivered in a coordinated way.

A MetaLib Service Pack is the only mechanism for transferring to customers the essential software solutions to key problems found following the release of the version and for transferring key enhancements which cannot wait for the next Version release.

The MetaLib Service Pack is based on the concept of "No Regression". This implies that any change in functionality that is not a pure bug is optional and needs to be configured in order to take effect. In other words, if you install a Service Pack and do not make any manual configuration changes, your system does not benefit from the various optional elements of the Service Pack, but it also does not experience any negative repercussions from the installation.

The Service Pack mechanism always downloads files to the `./ins00` instance to serve as templates for manual configuration changes in your local instances (HTML pages/configuration tables/icons).

Where possible, the Service Pack mechanism automatically distributes new files to your locally customized instances (`./ins<NN>`), as well as making changes to relevant files.

How Long Does it Take to Apply a MetaLib Service Pack and Does it Include Downtime?

The MetaLib Service Pack has several menu options. The main option is to install the Service Pack. Only the install Service Pack option requires system down time. Other options can be applied while the system is up and running. The actual installation process takes a few moments.

Service Pack Uninstall Option

The Service Pack utility also includes an Uninstall option. This option restores the system to its configuration prior to the installation of the latest Service Pack and removes the files installed in that Service Pack.

What is the Service Pack Level?

The Service Pack level indicates the number of fixes made since the general release of the version. The Service Pack is accumulative and includes all these changes. This means that you can download and run the Service Pack at any time.

There is always only one Service Pack for the version. The Service Pack checks to see if a previous Service Pack was applied and installs only the fixes and changes that were not installed on the local server. Each Service Pack is assigned a one-digit serial number, the first being zero.

Viewing the Service Pack Level

The `ver` command allows you display information regarding your current installation. The following information displays as shown in **Figure 1**:

- Operating system = **SUN_OS_2**
- Hostname = **dev.metalibcorp.com**
- MetaLib version = **4.3.0**

- Service Pack number = **3.0** (this portion of the version number indicates the serial number of the Service Pack)
- Last fix number installed on the local server in the latest MetaLib Service Pack = **(548)**
- Installation slot = **copy 7** for m4_7
- PDS version = **1.3.20098**

IMPORTANT:

The current Service Pack level is determined from the `$alephm_proc/report_change.dat` file. Do not modify this file manually under any circumstances.

To view your current Service Pack level:

- 1 Log in as the `metalib` user.
- 2 Enter the following command:

```
ver
```

The following figure shows an example of the `ver` command::

```
>> ver

SUN_OS_2, dev.metalibcorp.com, Metalib 4.3.0 (548) copy 7, 25-Mar-2009
Oracle 102
PDS version: 1.3.20098
```

Figure 1: Running the `ver` Command

What are Service Pack Release and Implementation Notes?

The MetaLib Service Pack Release and Implementation Notes consist of a PDF document, which contains the fix number, description, module, fix type, support incident number, and implementation notes. Implementation notes are a list of actions to be taken in order for certain changes to take effect. In MetaLib Service Packs, these actions are optional. You can implement them now or later.

The release and implementation notes can be downloaded from the FTP server or from the Doc Portal. The naming convention of the release notes is as follows:

```
METALIB-<version number.release number.service pack serial number>-
ServicePackContent-<lowest change number-highest change number>.pdf.
```

Preparing Your Environment (Util SP-1)

The Environment Setting menu (see [Figure 3](#)) is an optional utility that allows you to view and set the environment parameters that are related to downloading and installing SPs.

NOTE:

The SP parameters are configured automatically for you. Unless you are instructed to do so by Ex Libris Support, you do not have to update these values.

To access the Environment Setting menu:

- 1 Enter the following commands to access the Service Pack Management utility (see [Figure 2](#)):

```
dlib vir00
util sp
```

```
SP.  Service Pack Management
-----
    0.  Exit Procedure
    1.  Prepare/Update Environment
    2.  Download latest SP
    3.  Check SP Download status
    4.  Install SP
    5.  Run SP Utility
Please select [exit]:
```

Figure 2: Service Pack Management Menu

- 2 Enter option 1 to display the Environment Setting menu (see [Figure 3](#)).

```
SP.1. Environment Setting
-----
    0.  Exit Procedure
    1.  Customer details
    2.  FTP settings
    3.  SP Download directory
    4.  View Parameters
Please select [exit]:
```

Figure 3: Environment Setting Menu

From this menu, you can view the current settings and update the customer details, FTP settings, and SP download directory.

Setting Customer Details (Util SP-1-1)

This utility allows you to update the customer-related parameters, which are used during the installation of a SP.

To set the customer-related parameters:

- 1 From the Environment Setting menu (see [Figure 3](#)), enter option 1.

The following prompt displays:

```
Creating first time configuration file...
Writing configuration...
SP Customer details
-----
Enter new values or press <Enter> to keep existing

Ex Libris customer code (country code + customer) []:
```

- 2 At the prompt, enter the Ex Libris customer code or type ENTER to keep the current value.

The following prompt displays:

```
Customer mail address for download status notifications (leave empty
for none) []
```

- 3 At the prompt, enter your e-mail address or type ENTER to keep the current value.

The following prompt displays:

```
Configuration summary:
-----
Language:                english
Customer code:
Notification address:

Press <Enter> to continue
```

- 4 Type ENTER to return to the Environment Setting menu.

Setting the FTP Parameters (Util SP-1-2)

This utility allows you to update the FTP parameters, which are used during the download of a SP.

To set the FTP parameters:

- 1 From the Environment Setting menu (see [Figure 3](#)), enter option 2.

The following prompt displays:

```
SP FTP settings
-----
Enter new values or press <Enter> to keep existing

FTP server for SP download [ftp.exlibris.co.il]:
```

- 2 At the prompt, enter the FTP site or type ENTER to keep the current value.

The following prompt displays:

```
FTP user for SP download [mik_sp]:
```

- 3 At the prompt, enter the FTP user ID or type ENTER to keep the current value.

The following prompt displays:

```
FTP special options []:
*** for firewall connection problems try 'passive'
For details check the utility documentation
```

- 4 Enter the FTP options or type ENTER to keep the current value.

The following prompt displays:

```
Configuration summary:
-----
FTP server:                ftp.exlibris.co.il
FTP user:                  mik_sp
FTP options:

If you want to insert new FTP password please type it now
Or press ENTER to keep current password
```

- 5 Enter the FTP password or type ENTER to keep the current value.

The following prompt displays:

```
Press ENTER to continue
```

- 6 Type ENTER to return to the Environment Setting menu.

Setting the SP Download Directory (Util SP-1-3)

This utility allows you to set the directory to which the SP installation files are downloaded.

To set the SP download directory:

- 1 From the Environment Setting menu (see [Figure 3](#)), enter option 3.

The following prompt displays:

```
SP Download Directory
-----
Current SP Download directory is /exlibris/metalib/m4_3/alephm/
scratch/sp
If you wish to change it enter the new path now
Press enter to keep current definition
```

- 2 At the prompt, enter the new path of the SP download directory or type ENTER to keep the current value.

The following prompt displays:

```
Press ENTER to continue
```

- 3 Type ENTER to return to the Environment Setting menu.

Viewing the SP Parameters (Util SP-1-4)

This utility allows you to view all of the parameters that are used to download and install an SP.

To set the SP download directory:

- 1 From the Environment Setting menu (see [Figure 3](#)), enter option 4.

The following prompt displays:

```
Configuration summary:
-----
FTP server:                ftp.exlibris.co.il
FTP user:                  mik_sp
FTP options:
Language:                  english
Service pack download dir: /exlibris/metalib/m4_3/alephm/scratch/sp
Customer code:
Notification address:

Press <Enter> to continue
```

- 2 Type ENTER to return to the Environment Setting menu.

What is the Service Pack Installation Utility?

The SP package consists of the following files:

- `sp.install` — The installation script that is used to install the SP files.
- `sp.tar` — The tar file contains all of the relevant files that have changed. However, only the files needed for upgrading the current installation's update level to the Service Pack update level is installed.

For instructions on downloading the Service Pack, see [SP Download Procedures](#) on page 13.

To display the SP Installation Utility (see [Figure 4](#)), use one of the following methods:

- Enter the following command from the command prompt:
`./sp.install`
- Enter the following commands from the command prompt:
`dlib vir00`
`util sp`
`4`

```
Welcome to Service Pack Item 1-548 installation utility.
Your current Service Pack Item level is 402.
WARNING: Installing this Service Pack requires restart of the apache
server!!!

0. Exit Procedure
1. Install Service Pack Items to level 548

Note: For details of the current Service Pack,
refer to the METALIB-4.3.x-ServicePackItemContent on the Doc Portal.

Please select [0]:
```

Figure 4: SP Installation Utility

NOTE:

The new Service Pack level and the current system level are displayed at the top of the menu.

2

SP Download Procedures

This section includes:

- [Downloading the SP with the Service Pack Management Utility](#) on page 13
- [Downloading the SP from the FTP Site](#) on page 15

Downloading the SP with the Service Pack Management Utility

The Service Pack Management utility (Util SP) allows you to quickly download the latest SP and uncompress the SP files.

NOTE:

If you are using a SP that is earlier than SP 4.2.2, you must download the SP directly from FTP Site (see [Downloading the SP from the FTP Site](#) on page 15).

To download the SP:

- 1 Verify that there is enough disk space. Make sure that your free disk space is at least twice the size of the Service Pack files.
- 2 Log in to the server as the `metalib` user.

- 3 To display the Service Pack Management menu (see [Figure 5](#)), enter the following commands:

```
dlib vir00 (or dat01...)
util sp
```

```
SP.  Service Pack Management
-----
    0.  Exit Procedure
    1.  Prepare/Update Environment
    2.  Download latest SP
    3.  Check SP Download status
    4.  Install SP
    5.  Run SP Utility
Please select [exit]:
```

Figure 5: Service Pack Management Menu

- 4 Enter **2** to download the latest SP. The following message displays:

```
Preparing to background download
Download Status will be sent to you by email and/or you can check
status in step #3
FTP download started
Press <Enter>to continue
```

- 5 Press **ENTER** to return to the Service Pack Management menu.
- 6 Enter option **3** to check the status of the download.

If the download has completed, the following message displays:

```
Download successful
Service Pack 403.
press <Enter> to continue
```

If the download has not completed, a status message displays:

```
FTP still running
1 file(s) of total 4 completed (25 %)
press <Enter> to continue
```

- 7 Press **ENTER** to return to the Service Pack Management menu.

Downloading the SP from the FTP Site

This procedure is required for MetaLib sites that are using an SP prior to SP 4.2.2.

To download the SP:

- 1 Verify that there is enough disk space. Make sure that your free disk space is at least twice the size of the Service Pack files.
- 2 Log in to the server as the `metalib` user.
- 3 Enter the following commands to access the FTP server:

```
cd $TMPDIR
ftp ftp.exlibris.co.il
```

- 4 Enter `mik_sp` at the Name prompt.
- 5 Enter the password at the Password prompt.
- 6 Enter the following command to make sure that the FTP server is in binary mode:

```
ftp> bin
```

- 7 Enter the following command to make sure that the FTP server has interactive mode turned off:

```
ftp> prompt
```

- 8 Enter the following command to download the Service Pack, where *N* indicates the MetaLib release number, *M* indicates the Service Pack level, and *X* indicates the number of the last fix included in the Service Pack.

```
ftp> mget METALIB-4.N.M-ServicePackItem-1-X.tar.gz*
```

For example:

```
mget METALIB-4.3.0-ServicePackItem-1-548.tar.gz*
```

NOTE:

The wildcard character "`_*`" ensures the downloading of all the different parts of the Service Pack on the ftp server.

- 9 Enter the following command to download the Service Pack Release Notes (not relevant for the first Service Pack), where *W-X* is the installed range:

```
ftp> mget METALIB-4.N.M-ServicePackItemContent-W-X.xls
```

For example:

```
mget METALIB-4.3.0-ServicePackItemContent-404-548.xls
```

- 10 Enter the following command to exit the FTP server:

```
ftp> quit
```

11 Enter the following command to decompress the Service Pack:

```
cat METALIB-4.N.M-ServicePackItem-1-X.tar.gz* | gzip -d |  
tar -xvf -
```

For example:

```
cat METALIB-4.1.1-ServicePackItem-1-548.tar.gz* | gzip -d | tar -  
xvf -
```

NOTES:

- Use the wildcard * to ensure that all parts of the Service Pack are unified into one package and opened properly on the server.
 - You now have two new files: sp.tar and sp.install
-

3

Installing the Service Package

This section includes:

- [Using the Installation Script](#) on page 17

Using the Installation Script

After you have downloaded the SP files, you can run the installation script (`sp.install`), which performs the following actions:

- Opens the `sp.tar` file in a temporary location.
- Copies the files one-by-one to their final location while backing up the original files.
- Runs a number of processes. For example, it compiles all relevant files after backing up their binary products.

NOTE:

By default, the files are backed up with an `sp.<NN>` extension, where `<NN>` is the Service Pack update level.

- Creates the Post-Installation SP utility script (`sp.utility`) under the the following directory, where `<c>` is the MetaLib copy and `<n>-<m>` is the installed fix range:

```
/exlibris/metalib/m4_<c>/service_pack/<n>-<m>
```

To install the SP:

- 1 Enter the following commands to stop the MetaLib Web and search servers:

```
cd $metalib_conf
metalib_shutdown
```

- 2 Run the relevant commands to stop Apache, where n indicates the specific slot on which you are working.

For sites running MetaLib on a port higher than 1024, use:

```
cd /exlibris/metalib/m4_n/apache/bin
apachectl stop
```

For sites either running MetaLib on a port number less than or equal to 1024 or running Apache with SSL:

```
su
password: <root password>
cd /exlibris/metalib/m4_n/apache/bin
./apachectl stop
exit
```

- 3 To display the Service Pack Management menu (see [Figure 6](#)), enter the following commands:

```
dlib vir00 (or dat01...)
util sp
```

```
SP.  Service Pack Management
-----
0.  Exit Procedure
1.  Prepare/Update Environment
2.  Download latest SP
3.  Check SP Download status
4.  Install SP
5.  Run SP Utility
Please select [exit]:
```

Figure 6: Service Pack Management Menu

- 4 Enter **4** to execute the SP Installation utility.

The Service Pack Installation Utility menu displays (see [Figure 7](#)).

```

Welcome to Service Pack Item 1-548 installation utility.
Your current Service Pack Item level is 403.
WARNING: Installing this Service Pack requires restart of the apache
server!!!

0. Exit Procedure
1. Install Service Pack Items to level 548

Note: For details of the current Service Pack,
refer to the METALIB-4.3.x-ServicePackItemContent on the Doc Portal.

Please select [0]: 1

```

Figure 7: SP Installation Menu

- 5 Enter option **1** to start the installation.
- 6 Enter **Y** at the following prompt to confirm the correct SP level:

```

Are you sure you want to install Service Pack Items to level 548
Y/[N] y

```

- 7 For MetaLib Version 4.3 Minor Release, perform the following steps:
 - a Enter the password for the new mldadmin user at the following prompt:

```

As part of MetaLib 4.3 Minor-Release, a new MetaLib Role is being
created:
MetaLib Administrator with user name: mldadmin

A password must be set to this user.
You can re-change the password in the staff Admin page in a later
time.
This username and password will be used for the PDS Admin interface
as well.
Type your mldadmin password here [mldadmin]:

```

- b Re-enter the password at the the following prompt:

```

Retype your mldadmin password [mldadmin]:
Password successfully stored.
You can re-change the password in the staff Admin page in a later
time.

```

NOTE:

You can update the password in the Staff Administration page at a later time.

c Press any key at the following prompt to continue with the installation:

```
As part of MetaLib 4.3 Minor-Release, indexing of
the DAT01 database is necessary and
will be running in the background.
Notice, that this procedure can run between 30 minutes
to several hours (depending on the size of your database).
While this procedure continues, please do not start the MetaLib
server.

You can use the Service Pack utility in order to check the status of
the DAT01 indexing
Or
Refer to the log file: /exlibris/metalib/m4_5/tmp/p_index_dat01.log

[1] 21374

Press any key to continue
```

d Enter **Y** at the following prompt to run the optional implementation actions. Otherwise, enter **N** to run them at a later time.

```
Running metalib_conf_create
The Service Pack was installed successfully.

As part of MetaLib 4.3 Minor-Release, optional implementation
actions can be run.
Do you want to run them now? [Y]/N (You can later access them
through the sp.utility menu)
```

e Enter **Y** at the following prompt to continue:

```
=====
* Explanation: In order to update the save-file menus with the*
* new save to EndNoteWeb functionality,                        *
* save as RIS Format functionality and                          *
* add the new v-peer.png, v-icon-peer.png                      *
* icons to all existing instances,                              *
* you must run the following scripts. Note that the new       *
* save-file values(RIS/EndNoteWeb) will be                    *
* added only if the HTML pages                                  *
* eshelf-2-save/full-save/full-save-simplified                *
* has not been modified or customized.                         *
=====
Continue running the script? [Y]:
```

IMPORTANT:

If you have made manual changes to any of these files, they will be overwritten.

f Enter **Y** at the following prompt to run this action:

```
=====
* Step 1: Add the "save to EndNoteWeb" functionality      *
=====
Run this step? [Y]:
```

g Enter **Y** at the following prompt to run this action:

```
=====
* Step 2: Add the "save as RIS Format" functionality     *
=====
Run this step? [Y]:
```

h Enter **Y** at the following prompt to run this action:

```
=====
* Step 3: Add the new "peer-reviewed icon" to all instances *
=====
Run this step? [Y]:
```

8 At the following prompt, enter **N** to run the `sp.utility` later.

```
The Service Pack utility is /exlibris/metalib/m4_5/service_pack/
403-548/sp.utility .
Do you want to run it now? [Y]/N
```

NOTE:

For more information on the SP utility (`sp.utility`), see [Running the Post-Installation SP Utility](#) on page 24.

9 Enter the following commands to restart the Web and search servers:

```
cd $metalib_conf
metalib_startup
```

10 Run the relevant commands to restart the Apache server.

For sites running MetaLib on a port number higher than 1024, enter the following commands:

```
apcb
apachectl start
```

If Apache fails to start, enter the following commands to restart Apache:

```
apcb
apachectl stop
apachectl start
```

For sites either running MetaLib on a port number less than or equal to 1024 or running Apache with SSL:

```
su
password: <root password>
cd /exlibris/metallib/m4_<n>/apache/bin
./apachectl_auto
```

(where <n> indicates the MetaLib slot on which you are working)

- 11 Log out and log back in to the server.
- 12 Enter the `ver` command to ensure that you are running the correct service pack.

NOTE:

If you execute the `sp.install` command after the installation has completed, you will be redirected to the `sp.utility` command.

4

Post-Installation Service Pack Utility

This section includes:

- **Introduction** on page 23
- **Running the Post-Installation SP Utility** on page 24
- **Running the Optional Implementation Actions** on page 25
- **Viewing the Log File** on page 26
- **Checking the Status of DAT01 Indexing** on page 27
- **Uninstalling the SP** on page 28

Introduction

During the installation of the Service Pack, a Post-Installation Service Pack utility (`sp.utility`) is created under the following directory:

```
./service_pack/<service pack number>
```

This utility is a menu-driven interface (see **Figure 8**) that allows you to run optional implementation scripts or mandatory scripts that may overwrite localized files. In addition, this utility allows you to view the installation log or to uninstall the SP if there is a problem.

```
Welcome to Service Pack utility.
Your current Service Pack Item level is 548.

0. Exit Procedure
Note: For details of the current Service Pack,
refer to the METALIB-4.3.x-ServicePackItemContent on the Doc Portal.

6. View installation log

7. Check DAT01 indexing status

8. Run optional implementation actions

9. Uninstall Service Pack level 548

Please select [0]:
```

Figure 8: Post-Installation SP Utility Menu

NOTES:

The menu displays only relevant options for each SP:

- Option 7 appears only when DAT01 has been re-indexed by the SP.
 - Option 8 appears only when the SP contains optional implementation actions.
-

Running the Post-Installation SP Utility

The Post-Installation Service Pack utility (`sp.utility`) can be executed either from the command prompt or from the Service Package Management utility (Util SP).

Running the Post-Installation SP Utility from the Command Prompt

To run the Post-Installation SP utility from the command prompt:

- 1 Enter the following command to move to the relevant Service Pack directory:

```
cd ./service_pack/404-548
```


- 2 Enter the following command to run the Post-Installation SP utility (see [Figure 8](#)):

```
./sp.utility
```

Running the Post-Installation Service Pack Utility from the Service Pack Management Utility Menu

To run the Post-Installation SP utility from the Service Pack Management utility:

- 1 To display the Service Pack Management menu (see [Figure 9](#)), enter the following commands:

```
dlib vir00 (or dat01...)
util sp
```

```

SP.  Service Pack Management
-----
    0.  Exit Procedure
    1.  Prepare/Update Environment
    2.  Download latest SP
    3.  Check SP Download status
    4.  Install SP
    5.  Run SP Utility
Please select [exit]:

```

Figure 9: Service Pack Management Menu

- 2 Enter 5 to execute the Post-Installation SP utility.
The Post-Installation SP utility menu displays (see [Figure 8](#)).

Running the Optional Implementation Actions

The Post-Installation Service Pack utility (see [Figure 8](#)) allows you to perform the optional implementation actions. For each optional implementation action, the utility will prompt you to perform it.

To run the optional implementation actions:

- 1 Execute the Post-Installation SP utility either by executing the `sp.utility` command or by executing option 5 from the Service Pack Management utility (see [Figure 9](#)).

The Post-Installation SP utility menu displays (see [Figure 8](#)).

NOTE:

If you would like to view a summary of the optional implementation actions, enter 5.

- 2 Enter 8 to run the optional implementation actions.

A brief summary of the optional implementation actions displays. For example:

```
=====
* Explanation: In order to update the save-file menus with the*
* new save to EndNoteWeb functionality,                      *
* save as RIS Format functionality and                       *
* add the new v-peer.png, v-icon-peer.png                   *
* icons to all existing instances,                          *
* you must run the following scripts. Note that the new    *
* save-file values(RIS/EndNoteWeb) will be                 *
* added only if the HTML pages                              *
* eshelf-2-save/full-save/full-save-simplified             *
* has not been modified or customized.                      *
=====
Continue running the script? [Y]:
```

- 3 Enter Y to continue running this option. Otherwise, enter N to return to the Post-Installation SP utility menu.

A prompt to perform the first implementation action displays. For example:

```
=====
* Step 1: Add the "save to EndNoteWeb" functionality        *
=====
Run this step? [Y]:
```

- 4 Enter Y to run the implementation action. Otherwise, enter N to skip this action.
- 5 Repeat the previous step for each implementation action.

Viewing the Log File

An installation log is created during installation of the SP. The log can be viewed with the Post-Installation SP utility. This log is useful in gaining a better understanding of the technical aspects of the SP.

To view the log file:

- 1 Execute the Post-Installation SP utility either by executing the `sp.utility` command or by executing option **5** from the Service Pack Management utility (see **Figure 9**).
- 2 Enter **6** to open the log file. For example:

```

Installing Service Pack.
Wed Mar 25 17:20:13 IST 2009
*****
Untaring sp.tar.
*****

./aleph/exe_java/
./aleph/exe_java/metaIndex/
./aleph/exe_java/metaIndex/Configuration.class
./aleph/exe_java/metaIndex/Convertor.class
./aleph/exe_java/metaindex/
./aleph/exe_java/metaindex/Configuration.class
./aleph/exe_java/metaindex/Convertor.class
./aleph/exe_java/metaindex/DirectoryListenr.class
./aleph/exe_java/metaindex/MetaindexWorkqueue$MetaindexThread.class
./aleph/exe_java/metaindex/MetaindexWorkqueue.class
.
.
.
Installing step 000546
action_comp iprou www_m www_m_lst_qs_actions_manage
www_m_lst_qs_actions_manage

Installing step 000547
action_comp iprou www_m www_m_staff_admin_edit
www_m_staff_admin_edit

Installing step 000548
create_rts
create_pc_server
create_www_server_m
create_pds_utf_file_name
create_search_server

```

Figure 10: Sample Log File

- 3 Exit the editor to return to the Post-Installation SP utility menu.

Checking the Status of DAT01 Indexing

For MetaLib Version 4.3 Minor Release, the DAT01 database is re-indexed by the installation process in the background. Since it may take about 30 minutes to re-index, you can use this option to see if the re-indexing has completed.

To verify that re-indexing has completed:

- 1 Execute the Post-Installation SP utility either by executing the `sp.utility` command or by executing option 5 from the Service Pack Management utility (see [Figure 9](#)).
- 2 Enter option 7.
- 3 At the following prompt, enter 0. Otherwise, enter 1 to check it again.

```
The indexing of DAT01 is Done.  
Press 1 to recheck status, 0 to exit[1]:
```

Uninstalling the SP

The Post-Installation SP utility includes an uninstall option. This option restores your system to its previous SP level and removes the files that were installed in the current SP.

To uninstall the latest SP:

- 1 Enter the following commands to stop the MetaLib Web and search servers:

```
cd $metalib_conf  
metalib_shutdown
```

- 2 Run the relevant commands to stop Apache, where n indicates the specific slot on which you are working.

For sites running MetaLib on a port higher than 1024, use:

```
cd /exlibris/metalib/m4_n/apache/bin  
apachectl stop
```

For sites either running MetaLib on a port number less than or equal to 1024 or running Apache with SSL:

```
su  
password: <root password>  
cd /exlibris/metalib/m4_n/apache/bin  
./apachectl stop  
exit
```

- 3 Execute the Post-Installation SP utility either by executing the `sp.utility` command or by executing option 5 from the Service Pack Management utility (see [Figure 9](#)).
- 4 Enter 9 to uninstall the current SP.

- 5 At the following prompt, enter **Y** to continue. Otherwise, enter **N** to exit this option.

```
You are about to uninstall Service Pack level 548.  
The Service Pack Item level you will have after uninstalling will  
be: 402  
Are you sure you want to uninstall Service Pack Y/[N]
```

- 6 Enter the following commands to restart the Web and search servers:

```
cd $metalib_conf  
metalib_startup
```

- 7 Run the relevant commands to restart the Apache server.

For sites running MetaLib on a port number higher than 1024, enter the following commands:

```
apcb  
apachectl start
```

If Apache fails to start, enter the following commands to restart Apache:

```
apcb  
apachectl stop  
apachectl start
```

For sites either running MetaLib on a port number less than or equal to 1024 or running Apache with SSL:

```
su  
password: <root password>  
cd /exlibris/metalib/m4_<n>/apache/bin  
./apachectl_auto
```

(where *<n>* indicates the MetaLib slot on which you are working)

- 8 Log out and log back in to the server.
- 9 Enter the `ver` command to ensure that you are running the correct service pack.

