



MetaLib Version 4.1.1 (294-344)

Release Notes

January 2008

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1. Introduction

1.1. Purpose and Scope

This document describes the functional and technical changes included in this service pack and provides implementation instructions where appropriate.

Note: This document details the changes included in the current Service Pack only.

1.1.1. Service Pack Name and Number

MetaLib Service Pack 4.1.1 (294-344), January 2008.

1.1.2. Service Pack Highlights

This Service Pack includes bug fixes for MetaLib version 4 as well as several new enhancements. There are *no* items requiring mandatory implementation actions, but there are several optional implementation items related to corrections. The delivery mechanism is the standard MetaLib Service Pack (SP) mechanism, which will automatically apply all software changes related to these items where possible.

Key corrections included in MetaLib 4.1.1:

- Reading List and Citation Manager Export fixes for errors reported in 4.1.0
- URL validation fine tuning for protection against cross-site scripting (XSS)
- Facilitation of customization in the User Interface
- Several problems related to the Link to Native Interface functionality were corrected

Enhancements included in MetaLib 4.1.1:

- Merging of different data fields into a unified field in the converted record
- Sorting of My e-Journals alphabetically by title
- X-Server services for QuickSets/My Databases return the sets in the same order as in the User Interface

The Service Pack can be applied either on any MetaLib 4.0.x version, irrespective of the MetaLib 4.0 Service Pack level, or on MetaLib 4.1.0. Customers who have not yet applied previous MetaLib 4.0 Service Packs should refer to the related documents listed below.

1.2. Related Documents and References

- How to apply the Service Pack:

MetaLib Version 4.1.x Service Pack

- Release Notes for previous MetaLib Service Packs :

METALIB-4.10-ServicePackItemContent-234-293

- For X-Server licensed customers - link to the X-Server Online Help:

`http://<hostname:port>/X?op=explain&func=intro`

No changes were made to the following documents for this SP, but the documents are relevant to general MetaLib functionality:

- *MetaLib Version 4.1.x System Configuration Guide*
- *MetaLib Version 4.1.x System Administration Guide*
- *MetaLib Version 4.1.x User Interface Guide*

2. Service Pack Content Summary

[Table 1](#) contains a list of corrections and enhancements that are included in this Service Pack. Where appropriate, this table references other sections for detailed information, such as implementation instructions.

Table 1: Enhancements and Corrections

#	Fix Number	Description	Module	Fix Type	Support Incident
1	295	Lateral links (links initiated from 'Full View') did not function correctly for duplicate items. This was fixed.	/V	Correction	8192-57730
2	297	X-Server <code>merge_sort</code> : It is now possible to execute a successful remerge after issuing <code>merge-more</code> and <code>merge-more-set</code> services.	X-Server	Correction	-
3	298	"Save as" citation format: When a field was defined with more than one subfield, such as the title field (tag 245), then sometimes the field would be truncated. This was fixed.		Correction	8192-96524
4	299	When saving a reading list in XML format, the tag <code>
</code> was used and rendered the XML as invalid. This was fixed.	/V	Correction	8192-95994
5	305	PDS now creates a valid domain cookie irrespective of the domain format. It also now handles URLs that didn't contain <code>:port</code> information.	PDS	Correction	8192-96169
6	307	The global update "Change Link to Native Interface URL" did not function correctly for URLs with percentage encoding (such as <code>%2D</code>). This was fixed.	KB Tool	Correction	8192-70059
7	308	X-Server <code>retrieve_quick_sets</code> and <code>retrieve_my_sets</code> services now return the sets according to the set order specified in My Space>My Databases .	X-Server	Enhancement	-

#	Fix Number	Description	Module	Fix Type	Support Incident
8	309	X-Server present: The <code>set_number</code> parameter was always mandatory. The service has been updated so that it is now mandatory only when the request includes the <code>set_entry</code> parameter.	X-Server	Correction	-
9	310	X-Server <code>retrieve-cluster-facet</code> : The <code>institution</code> parameter has been added to this service to enable retrieval of the relevant cluster/facet definitions.	X-Server	Enhancement	-
10	311	The <code>Basket</code> label in My Space is now customizable using the <code>./ins<NN>/www_const.<lng></code> table. For details, see Section 4.1.1 on page 11 .	/V	Enhancement	8192-79418
11	312	Clicking on Find Database following a search in a Subcategory did not return to the last Category/Subcategory. This was fixed.	/V	Correction	8192-85765
12	313	If a "Link to the Native Interface" contained a semicolon, the link did not function correctly. This was fixed. For details, see Section 4.2 on page 12 .	/V	Correction	8192-78487
13	314	The language labels that display are now taken from the active interface language when a reading list is created.	/V	Correction	8192-101804
14	315	The hard-coded string "Add to basket" was changed to "Add to Basket" since the latter was the more commonly used form in the HTML pages.	/V	Correction	8192-75477
15	316	To facilitate translation in the <code>./ins<NN>/www_v_<lng>/full-mail</code> and <code>eshelf-2-mail</code> pages, missing double slashes are added to the text labels. For details, see Section 4.3 on page 13 .	/V	Correction	8192-75461
16	317	To facilitate the translation of the Alerts page, missing double slashes were added to the text labels. For details, see Section 4.4 on page 14 .	/V	Correction	8192-79900
17	318	The misspelled word "tabale" was changed to "table" in the title of two web pages in /M (<code>window-close</code> and <code>source-update-9</code>).	/M	Correction	8192-73614

#	Fix Number	Description	Module	Fix Type	Support Incident
18	319	The search string now displays correctly in the output of the KnowledgeBase Report.	Statistics	Correction	8192-58891
19	320	There was a character-set problem when using the SPLIT action with <code>vir_fix_doc_table</code> as the conversion program. This was fixed.	KB Tool	Correction	8192-17489
20	321	When switching between different languages, the components relevant to the newly-selected language now display correctly (for example, the QuickSets).	/V	Correction	8192-82618
21	322	e-Journals saved to My Space>My e-Journals now display alphabetically by journal title.	/V	Enhancement	-
22	323	Access to the /M was sometimes blocked after retrieving the OpenURL via the present X-Service. This was fixed.	/M	Correction	8192-93547
23	324	The Monitoring Tool>Oracle Report option was reporting missing indexes. This was fixed.	Misc	Correction	8192-79015
24	325	X-Server Online help: clarification of error 6026 was added to the find, search_my_sets and search_quick_sets help pages.	X-Server	Correction	8192-70838
25	326	Saving records in Citation Manager format when using the Safari browser is now functioning correctly.	/V	Correction	8192-49098
26	328	MetaIndex: MetaLib now distinguishes between the author and collaborator fields when converting harvested records from Dublin Core to MARC21.	MetaIndex	Correction	8192-45500
27	329	There was a problem in the configuration conversion tab with the MERGE program. Several occurrences of the same field were merged into one field instead of only merging subfields within each occurrence of the field separately. This was fixed. In addition, a new action <code>MERGE_SUB</code> program was added. For details, see Section 3.1 on page 8 .	KB Tool	Enhancement	8192-97044
28	330	Empty IRDs without mandatory fields no longer display in the resource list.	KB Tool	Correction	8192-83941

#	Fix Number	Description	Module	Fix Type	Support Incident
29	331	MetaLib now limits the number of databases per QuickSet/MySet when creating or modifying sets in My Space>My Databases . The limit is determined by the <code>www_metalib_search_limit</code> parameter in <code>./metalib_conf/www_server.conf</code> . When searching a set that has more resources than the limit, MetaLib selects the first x searchable resources where x is equal to the <code>www_metalib_search_limit</code> . For details, see Section 4.5 on page 15 .	/V	Correction	8192-13957
30	333	This fix corrects the problem with URLs containing parameters used for linking to the native interface.	/V	Correction	8192-77679
31	334	The KnowledgeBase Report using the "Configuration Notes" format did not display correctly in Excel format. This was fixed.	Statistics	Correction	8192-83927
32	336	This fix adds the missing parameters to the <code>./vir00/tab/url_validation</code> file for the XSS checks (Cross Site Scripting).	/V	Correction	16384-348
33	337	The MAB format conversion for Z39.50 gate functionality was not correct. This was fixed.	Z39	Correction	8192-84710
34	339	This fix corrects the mismatch between the <code>./ins<NN>/www-v_<lng>/redirect-page</code> HTML page and the corresponding text label in <code>./ins<NN>/tab/www_const.<lng></code> when linking to the native interface. For details, see Section 4.1.2 on page 12 .	/V	Correction	8192-85254
35	341	This fix adds columns to the header of the <code>./insNN/tab/www_tab_short.<lng></code> table. It allows you to add three more alternate fields to the table view of the search results for all of the search modules.	/V	Enhancement	8192-23852
36	342	The display format of the Metalib version has changed to 4.1.1. The new format is used in the <code>ver</code> command on the Unix server, the "About Metalib" page in the /V Online Help, and the X-Server output.	Maintenance	Technical	-

#	Fix Number	Description	Module	Fix Type	Support Incident
37	343	<p>Item 321 created a regression problem if different QuickSets were defined for one of the default users PORTAL-LNG-<suffix> (for example PORTAL-LNG-IN or PORTAL-LNG-GUEST or both). When switching languages, no QuickSets displayed in the QuickSearch or MetaSearch modules if these default users were used.</p> <p>Item 343 rolls back item 321 in this package. The original problem will be addressed in a future MetaLib release.</p>	/V	Technical	-
38	344	<p>X-Server: present</p> <p>Item 309 created a regression problem when requesting a single set entry. This has been fixed.</p>	X-Server	Correction	16384-4183

3. Functional Enhancements Detailed Description

3.1. The Merge and Merge_Sub Conversion Programs

3.1.1. The Merge Conversion Program

3.1.1.1 Description

The Merge program is used in configuration's conversion tabs to enable the merging of different data fields into a unified field in the converted record, which is presented to users.

For example, If you add the following lines to the configuration's conversion tab:

In tag	In sub	Program	Param	Action
PL			260 , a	MERGE
PB			260 , b	MERGE
YR			260 , c	MERGE

the Merge program (as shown in the Action column) merges the following incoming data:

PL	New York
PB	MacMillan
YR	1999

into a single field as shown the following record:

260	\$\$aNew York \$\$bMacMillan	\$\$c1999
-----	------------------------------	-----------

If the Merge program is not used, these fields appear as shown in the following record:

260	\$\$aNew York
260	\$\$bMacMillan
260	\$\$c1999

3.1.1.2 The Problem

We have found out that a bug in the Merge program causes it to merge all relevant data into one big converted field with multiple identical subfields, instead of separating the different appearances of the same field.

For example, if an item has several holding fields as follows:

SHLF	540
LIB	Business Library
STAT	Available
SHLF	330
LIB	Medical Library
STAT	Loaned out until 24.06.2008

the Merge program, used in the following manner:

In tag	In sub	Program	Param	Action
SHLF			852,c	MERGE
LIB			852,a	MERGE
STAT			852,z	MERGE

would result in the following field being created:

852	\$\$c540 \$\$aBusiness Library \$\$zAvailable \$\$c330 \$\$aMedical Library \$\$zLoaned out until 24.06.2008
-----	--

instead of a correct field display with one specific subfield per field appearance:

852	\$\$c540 \$\$aBusiness Library \$\$zAvailable
852	\$\$c330 \$\$aMedical Library \$\$zLoaned out until 24.06.2008

3.1.1.3 The Solution

In MetaLib 4.1.1 and later releases, the Merge program has been updated so that the conversion of multiple appearances of the same field remain separate after performing the Merge function.

The incoming data:

SHLF	540
LIB	Business Library
STAT	Available
SHLF	330
LIB	Medical Library
STAT	Loaned out until 24.06.2008

used with a conversion tab that reads as follows:

In tag	In sub	Program	Param	Action
SHLF			852,c	MERGE
LIB			852,a	MERGE
STAT			852,z	MERGE

produces separate 852 fields as shown in the following record:

852	\$\$c540	\$\$aBusiness Library	\$\$zAvailable
852	\$\$c330	\$\$aMedical Library	\$\$zLoaned out until 24.06.2008

3.1.2. The Merge_Sub Conversion Program

3.1.2.1 Description

If you want to merge several fields into one subfield within a specific field without separating the different appearances of that subfield to different appearances of the field, use the Merge_Sub program.

For example, if the client wants to merge all of these fields into the specific 773 \$\$g subfield, using the Merge_Sub program as shown in the following conversion tab:

In tag	In sub	Program	Param	Action
TITL			773,g	MERGE_SUB
YR			773,g	MERGE_SUB
VOL			773,g	MERGE_SUB
ISSU			773,g	MERGE_SUB
SPAGE			773,g	MERGE_SUB
EPAGE			773,g	MERGE_SUB

The following incoming record:

TITL	Journal of Mathematics
YR	2003
VOL	54
ISSU	1
SPAGE	67
EPAGE	73

returns the following converted record:

```
773 $$gJournal of Mathematics $$g2003 $$g54 $$g1 $$g67 $$g73
```

Note: This format is not correct MARC format, but it helps records display in a smoother manner.

If the Merge command had been used in the same example, the following converted record is returned :

773	\$\$gJournal of Mathematics
773	\$\$g2003
773	\$\$g54
773	\$\$g1
773	\$\$g67
773	\$\$g73

For more information, refer to Fix [329](#) on page [5](#).

4. Detailed Implementation Instructions

This section contains the procedures needed to implement some of the fixes in this Service Pack.

Where possible, the Service Pack mechanism automatically makes changes to relevant files. Each item in this section indicates whether a change was made automatically or a manual change is needed. The manual corrections in this Service Pack are optional (Fixes 316 and 317).

4.1. Customizing Labels

4.1.1. Customizing the "Basket" Label

The installation of the Service Pack automatically adds the following text label to the `./tab/www_const.<lng>` files for all instances and languages:

```
Basket -- Basket
```

If the following label exists, the "Basket" label is added after it:

```
Barcode -- Barcode
```

If the "Barcode" label does not exist, the "Basket" label is added at the end of the `./tab/www_const.<lng>` file.

For more information, refer to Fix [311](#) on page [4](#).

To customize the "Basket" label in the e-Shelf folder pull-down menu, perform the following steps:

1. Enter the following commands to open the `./ins<MN>/tab/www_const.<lng>` file, where `<MN>` indicates the instance and `<lng>` indicates the language:

```
>> dlib ins<MN>
>> dt
>> vi www_const.<lng>
```

2. Search for the following string:

```
Basket -- Basket
```

3. Modify the constant for the "Basket" label.
4. Exit and save the file.

5. Enter the following command to restart MetaLib's Web servers:

```
>> start_w
```

4.1.2. Customizing the Redirect Page

The installation of this SP automatically performs Fix 339, which changes the misspelled word "rediret" to "redirect" in the `./tab/www_const.<lng>` files for all instances and languages as shown in the following text:

```
If the page does not redirect to the native interface press the
"Connect to the Native interface" button below -- If the
page does not redirect to the native interface press the
<strong>"Connect to the Native interface"</strong> button
below
```

For more information, refer to Fix [339](#) on page [6](#).

To customize the redirect constant, perform the following steps:

1. Enter the following commands to open the `./ins<NN>/tab/www_const.<lng>` file, where `<NN>` indicates the instance and `<lng>` indicates the language:

```
>> dlib ins<NN>
>> dt
>> vi www_const.<lng>
```

2. Search for the following string:

```
If the page does not redirect to the native interface press the
"Connect to the Native interface" button below -- If the
page does not redirect to the native interface press the
<strong>"Connect to the Native interface"</strong> button
below
```

3. Modify the redirect constant.
4. Exit and save the file.
5. Enter the following command to restart MetaLib's Web servers:

```
>> start_w
```

4.2. "Link to Native Interface" with a Semicolon

The installation of this SP automatically performs Fix 313, which updates the `redirect-page` file under the `./ins<NN>/www_v_<lng>` directory for all instances and languages.

To update the file manually, perform the following steps:

1. Edit the `./ins<NN>/www_v_<lng>/redirect-page` file for all instances and languages, where `<NN>` indicates the instance and `<lng>` indicates the language.
2. Change the following line:

```
<meta http-EQUIV="REFRESH" content="01; URL=$7500">
```

to

```
<meta http-EQUIV="REFRESH" content="01; URL='$7500'">
```

3. Exit and save the changes to the file.

For more information, refer to Fix [313](#) on page [4](#).

4.3. Customization of Send Email Pages

Fix 316 is optional. If you want to add the missing double slashes to the HTML pages, run the following implementation script:

```
>> csh -f $alephm_root/imp_notes/316_optional.csh
```

Note: The implementation instructions are relevant only to the following customers:

- New customers who have localized their system.
- Customers who are upgrading from MetaLib Version 3.13 and have already run Upgrade Express prior to installing this Service Pack.

This script does not perform updates on files that have been modified or customized prior to this action.

If the script fails to add the values, the script creates a log file that contains a list of files that the implementation script modifies:

```
$TMPDIR/files_to_change_manually.sp.*.316
```

If the script fails, perform the following steps to update the files manually:

1. Enter the following command to view the log file that contains the list of files to update manually:

```
>> cat $TMPDIR/files_to_change_manually.sp.*.316
```

2. Enter the following command to edit the `./ins<NN>/www_v_<lng>/eshelf-2-mail` file, where `<NN>` is the instance and `<lng>` is the language:

```
>> vi ./ins<NN>/www_v_<lng>/eshelf-2-mail
```

3. Change the following line:

```
<br>(optional)</label>
```

to

```
<br>//(optional)\</label>
```

4. Exit and save the changes to the file.
5. Repeat Steps [3](#) and [4](#) for the `./ins<NN>/www_v_<lng>/full-mail` file, where `<NN>` is the instance and `<lng>` is the language.

For more information, refer to Fix [316](#) on page [4](#).

4.4. Customization of Alerts Pages

Fix 317 is optional. If you want to add the missing double slashes to the HTML pages, run the following implementation script:

```
>> csh -f $alephm_root/imp_notes/317_optional.csh
```

Note: The implementation instructions are relevant only to the following customers:

- New customers who have localized their system.
- Customers who are upgrading from MetaLib Version 3.13 and have already run Upgrade Express prior to installing this Service Pack.

This script does not perform updates on files that have been modified or customized prior to this action.

If the script fails to add the values, the script creates a log file that contains a list of files that this script modifies:

```
$TMPDIR/files_to_change_manually.sp.*.317
```

If the script fails, perform the following steps to update the files manually:

1. Enter the following command to view the log file that contains the list of files to update manually:

```
>> cat $TMPDIR/files_to_change_manually.sp.*.317
```

2. Enter the following command to edit the `./ins<NN>/www_v_<lng>/alerts-1-update` file, where `<NN>` is the instance and `<lng>` is the language:

```
>> vi ./ins<NN>/www_v_<lng>/alerts-1-update
```

3. Change the following line:

```
<p>All fields marked with an asterisk (*) are mandatory</p><br>
```

to

```
<p>//All fields marked with an asterisk (*) are mandatory\\</p><br>
```

4. Exit and save the changes to the file.
5. Repeat Steps [3](#) and [4](#) for the `./ins<NN>/www_v_<lng>/history-1-alerts` file, where `<NN>` is the instance and `<lng>` is the language.

For more information, refer to Fix [317](#) on page [4](#).

4.5. Limiting the Number of Resources per QuickSet/My Databases

The installation of the Service Pack automatically performs the following modifications for Fix 331:

- Adds the following error messages to the `./tab/www_heading.<lng>` files for all instances and languages:


```
6045 "$1" is full.
6046 Too many databases in set (allowed up to $1).
6047 Searching resources according to the limitation defined ($1
resources)
6048 The resource exists in $1
```
- Adds the following file under the `./ins<NN>/www_v_<lng>` directory, where `<NN>` is the instance and `<lng>` is the language:


```
my-sets-save-new-error
```
- Adds a place holder `$7500` to the `<body>` tag in the following file under the `./ins<NN>/www_v_<lng>` directory, where `<NN>` is the instance and `<lng>` is the language:


```
my-sets-1-left
```

For more information, refer to Fix [331](#) on page [6](#).

To customize the new error messages, perform the following steps:

If you would like to translate or modify the error text, perform the following steps:

- a. Enter the following commands to open the `./ins<NN>/www_heading.<lng>` file, where `<NN>` indicates the instance and `<lng>` indicates the language:

```
>> dlib ins<NN>
>> dt
>> vi www_heading.<lng>
```

- b. Search for the following strings:

```
6045 "$1" is full.
6046 Too many databases in set (allowed up to $1).
6047 Searching resources according to the limitation defined ($1
resources)
6048 The resource exists in $1
```

- c. Translate or modify the text.
- d. Exit and save the file.
- e. Enter the following command to restart MetaLib's Web servers:

```
>> start_w
```