DigiTool Version 3.2
(Service Pack 22) Release Notes
November 2008
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1. Introduction

DigiTool revision (mini-release) 3.2 provides both a service pack of fixes and corrections as well as a number of new functionalities and enhancements.

1.1 Purpose and Scope

The purpose of this document is to describe the functional and technical changes related to fixed defects (SIs) and all new enhancements included in this mini-release version.

Wherever possible, implementation actions will be performed automatically by the SP mechanism – particularly for mandatory and recommended setup changes involving server-side setup and configuration implementation steps. You will receive an e-mail with the list of changes applied, as well as a “To Do” list of any remaining manual changes that may still be required, if any. This document will be attached to the e-mail described.

Whenever relevant, the additional manual steps that remain to be taken to activate any new functionality or change are described and organized by topic, level, and target audience. Generally, the non-automatic changes are non-mandatory, but there may be infrequent exceptions which will be denoted accordingly.

Ideally, and in most cases, the SP can be installed and no further changes will be needed in order to continue working with the system.

Note: You must run set_globals.sh after installing and implementing any relevant manual changes related to this SP, and before starting the application again with dtl_startup_all.

```
>>j_bin
>>./set_globals.sh

>>dtle
>>dtl_startup_all
```

Note: Always run Meditor’s version update after each SP installation to ensure that you have the most recent and working functionality of the Meditor PC client. To run the version update, select DigiTool > Utilities > Version Check using Meditor’s top toolbar.
1.2 Service Pack Information

1.2.1 DigiTool Revision, Service Pack Name & Number

DigiTool v 3.2 Service Pack 22 – November 2, 2008

1.2.2 Service Pack Highlights

The service pack items are categorized by the following:

- **Implementation actions** – Changes that involve some setup/configuration modification that must be activated. Two main classes of implementation actions exist:
  - Changes that involve modifications to configuration/setup in order to allow the use of the new change/function/feature. These changes are noted in the SP automated e-mail report and in the Changes with Implementation Actions table. These changes will usually be automated.
  - Changes that may also involve instructions on how to use the new change/function/feature. These changes are also included in the Changes with Implementation Actions table. They are usually optional and contain instructions on how to use a new function/feature. These changes may be entirely automatic (done by SP), partially automatic (may be additional steps to initiate), or manual (may require additional actions to activate).

  - **Level**
    - Mandatory – It is mandatory to activate this feature (auto or manual).
    - Recommended – It is not mandatory, but it is the recommendation of Ex Libris that the change be initiated.
    - Optional – It is possible to choose whether or not to activate the new feature.

- **Target Audience**
  - ALL
  - Module/Orientation specific

- **No Implementation actions** – Changes that do not involve any setup/configuration change, and are generally code-based changes. These changes are always automatic. They can be viewed in the Code Changes (No Implementation Actions) table.
1.3 Terms and Definitions - Enhancements

This section will explain the terms and definitions introduced in this version mini-release that are related to new enhancements.

- A streamlined process for adding/modifying/deleting Dublin Core fields – See below
- Batch ingest of METS – See below
- Allow use of PDS to authenticate depositors – See below
- Better search capabilities in the repository search – See below
- Maintenance jobs on a group of objects (defining the population by search rather than by limited form values) plus scheduling – See below
- Collection publishing replacing media-35 and media-36 (integrated with Harvesting) – See below
- BIRT reporting infrastructure – See below
2. Service Pack Content Summary

Below is a list of corrections and enhancements included in this service pack. More detailed descriptions, when relevant, are provided in subsequent chapters.

The first table represents those changes that involve configuration changes that are either performed automatically or must be performed manually in order to be activated. The Auto-Enable column indicates whether or not the change was intended to be automatically performed by the SP. However, ensure that you check the SP-generated e-mail after the SP is installed to see the status of any unperformed actions that were intended to be either automatic or manual.

The second table represents a list of defect fixes (code change only) which are automatically fixed by the SP mechanism patch.

Items that have additional information or implementation actions will be linkable from the Change ID # column.

### 2.1 Changes with Implementation Actions

**Note:** \( Y^* = \) Mostly automatic, but additional steps are required in order to use the feature

<table>
<thead>
<tr>
<th>Change ID #</th>
<th>Target Audience</th>
<th>Brief Description</th>
<th>Level</th>
<th>Type</th>
<th>Module/Topic</th>
<th>RPC #</th>
<th>Auto Enable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sites using the Resource Discovery</td>
<td>Collection publishing to the Resource Discovery is now part of the harvesting process (p_harvest_02). p-media-35 and p-media-36 are now defunct.</td>
<td>Mandatory</td>
<td>Enhancement</td>
<td>Resource Discovery</td>
<td>1290</td>
<td>Y*</td>
</tr>
<tr>
<td>2</td>
<td>ALL</td>
<td>TECHNICAL – JBoss version upgrade to v 3.2.6</td>
<td>Enhancement</td>
<td>ALL</td>
<td>Tech</td>
<td>1302</td>
<td>Y</td>
</tr>
<tr>
<td>3</td>
<td>ALL</td>
<td>TECHNICAL - Increased z312_source_id from 20 characters to 40 to allow for longer user names during login.</td>
<td>Mandatory</td>
<td>Enhancement</td>
<td>User Auth</td>
<td>1277</td>
<td>Y</td>
</tr>
<tr>
<td>4</td>
<td>Sites using JPEG2000</td>
<td>JPEG2000 Aware - Update third-party package to v 18</td>
<td>Mandatory</td>
<td>Enhancement</td>
<td>Tasks/Delivery</td>
<td>1270</td>
<td>Y</td>
</tr>
<tr>
<td>5</td>
<td>ALL</td>
<td>DC Field management - UI Interface</td>
<td>Mandatory</td>
<td>Enhancement</td>
<td>MNG</td>
<td>1295</td>
<td>Y*</td>
</tr>
<tr>
<td>6</td>
<td>ALL</td>
<td>Handling publish of more than 1000 persistent identifiers.</td>
<td>Mandatory</td>
<td>Defect</td>
<td>DES</td>
<td>1252</td>
<td>Y</td>
</tr>
<tr>
<td>Change ID #</td>
<td>Target Audience</td>
<td>Brief Description</td>
<td>Level</td>
<td>Type</td>
<td>Module/Topic</td>
<td>RPC #</td>
<td>Auto Enable</td>
</tr>
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<td>-------------</td>
</tr>
<tr>
<td>7</td>
<td>ALL</td>
<td>Allowing PDS to use institute other than DigiTool for deposit, Meditor, and collection management.</td>
<td>Mandatory</td>
<td>Defect</td>
<td>PDS</td>
<td>1265</td>
<td>Y</td>
</tr>
<tr>
<td>8</td>
<td>ALL</td>
<td>Digital entity and metadata search pages have a new UI and enhanced search functionality. Maintenance jobs have a new wizard and scheduler based on the new DE search.</td>
<td>Mandatory</td>
<td>Enhancement</td>
<td>MNG</td>
<td>1278</td>
<td>Y</td>
</tr>
<tr>
<td>9</td>
<td>ALL</td>
<td>ImageMagick - Update to third-party package to v 6.4.1</td>
<td>Mandatory</td>
<td>Enhancement</td>
<td>Tasks/Delivery</td>
<td>1267</td>
<td>Y</td>
</tr>
<tr>
<td>10</td>
<td>ALL</td>
<td>Webingest - ImageUploader ActiveX replaced by Java Applet</td>
<td>Mandatory</td>
<td>Defect and Enhancement</td>
<td>Ingest</td>
<td>1300</td>
<td>Y</td>
</tr>
<tr>
<td>11</td>
<td>Sites using METS view profiles</td>
<td>METS root element TYPE is now stored as separate metadata in DigiTool for purposes of filtering views in the METS viewer</td>
<td>Mandatory</td>
<td>Enhancement</td>
<td>Delivery</td>
<td>1259</td>
<td>N</td>
</tr>
<tr>
<td>12</td>
<td>ALL</td>
<td>Add metadata job/task file size limitation works by &quot;larger than&quot; and &quot;smaller than&quot; filter</td>
<td>Mandatory</td>
<td>Enhancement</td>
<td>DES</td>
<td>1279</td>
<td>Y</td>
</tr>
<tr>
<td>13</td>
<td>Sites using METS</td>
<td>Allows ingest of multiple METS files in a single ingest activity via multiple zip files with METS content.</td>
<td>Recommended</td>
<td>Enhancement</td>
<td>Ingest</td>
<td>1256</td>
<td>Y</td>
</tr>
<tr>
<td>14</td>
<td>ALL</td>
<td>BIRT reporting infrastructure</td>
<td>Mandatory</td>
<td>Enhancement</td>
<td>Reports</td>
<td>1294</td>
<td>Y</td>
</tr>
<tr>
<td>15</td>
<td>ALL</td>
<td>TECHNICAL changes for version</td>
<td>Recommended</td>
<td>Defect</td>
<td>General</td>
<td>1257</td>
<td>Y</td>
</tr>
<tr>
<td>16</td>
<td>Sites using Handle</td>
<td>Publishing of persistent identifiers (Handle) now allows for a default to be enabled which will designate a specific URL used as the default index code in the Handle global registry. This code will be represented by index=200.</td>
<td>Recommended</td>
<td>Enhancement</td>
<td>Handle publish</td>
<td>1280</td>
<td>Y*</td>
</tr>
<tr>
<td>17</td>
<td>Sites using CMYK images</td>
<td>Delivery and Conversion of CMYK images - By adding - colorspace RGB to all image conversions using ImageMagick, CMYK images can be rendered for viewing by the browser.</td>
<td>Recommended</td>
<td>Enhancement</td>
<td>Tasks/DES</td>
<td>1254</td>
<td>Y*</td>
</tr>
<tr>
<td>Change ID #</td>
<td>Target Audience</td>
<td>Brief Description</td>
<td>Level</td>
<td>Type</td>
<td>Module/Topic</td>
<td>RPC #</td>
<td>Auto Enable</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------</td>
<td>-----------</td>
<td>-------------</td>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>18</td>
<td>ALL</td>
<td>Typo in Meditor control section dropdown menu. Status SUPRESSED (sic) should be SUPPRESSED.</td>
<td>Recommended</td>
<td>Defect</td>
<td>General</td>
<td>1250</td>
<td>N</td>
</tr>
<tr>
<td>19</td>
<td>Sites using Deposit</td>
<td>Deposit PDS enhancement allows assigning deposit profile at the time of depositor login based on mapping rules.</td>
<td>Optional</td>
<td>Enhancement</td>
<td>Deposit</td>
<td>1269</td>
<td>Y</td>
</tr>
<tr>
<td>20</td>
<td>ALL</td>
<td>Passwords show up in clear text within server-side localhost access log of JBoss.</td>
<td>Optional</td>
<td>Defect</td>
<td>User Auth</td>
<td>1264</td>
<td>N</td>
</tr>
<tr>
<td>21</td>
<td>ALL</td>
<td>Added the GeneralManifestation framework to repository_jobs_configuration management jobs</td>
<td>Optional</td>
<td>Enhancement</td>
<td>Tasks/DES</td>
<td>1258</td>
<td>Y</td>
</tr>
<tr>
<td>22</td>
<td>ALL</td>
<td>TECHNICAL - Added option to configure jboss.bind.address (default is 0.0.0.0)</td>
<td>Optional</td>
<td>Enhancement</td>
<td>General</td>
<td>1260</td>
<td>Y</td>
</tr>
<tr>
<td>23</td>
<td>ALL</td>
<td>Generic metadata transformer- Added a new transformer to the repository replication that enables the extraction of any given metadata by a given xsl. This is particularly useful if you use your own local metadata schema.</td>
<td>Optional</td>
<td>Enhancement</td>
<td>Repository Replication</td>
<td>1291</td>
<td>N</td>
</tr>
<tr>
<td>24</td>
<td>ALL</td>
<td>Ingest CSV enhancement – Added the ability to the csv transformer to map a given MID to be shared/copied to digital entities being loaded.</td>
<td>Optional</td>
<td>Enhancement</td>
<td>Ingest</td>
<td>1287</td>
<td>Y*</td>
</tr>
<tr>
<td>25</td>
<td>OAI providers</td>
<td>OAI – The number of records per resumptionToken is now configurable.</td>
<td>Optional</td>
<td>Enhancement</td>
<td>OAI</td>
<td>1301</td>
<td>Y*</td>
</tr>
</tbody>
</table>
## 2.2 Code Changes (No Implementation Actions)

<table>
<thead>
<tr>
<th>Change ID #</th>
<th>Target Audience</th>
<th>Description</th>
<th>Type</th>
<th>Module/Topic</th>
<th>RPC #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ALL</td>
<td>TECHNICAL - DTL3 certification for Linux RH5 and 64 bit O/S</td>
<td>Enhancement</td>
<td>General</td>
<td>1285</td>
</tr>
<tr>
<td>2</td>
<td>ALL</td>
<td>TECHNICAL - fix to util SP rollback function via util_sp_05</td>
<td>Defect</td>
<td>SP</td>
<td>1247</td>
</tr>
<tr>
<td>3</td>
<td>ALL</td>
<td>Reload Repository Configuration job will now provide more information about which configuration files were reloaded.</td>
<td>Defect</td>
<td>MNG jobs</td>
<td>1251</td>
</tr>
</tbody>
</table>
| 4           | ALL             | Miscellaneous UI issues:  
1. The little eye icon/button that is conventionally used for "View" functionality is used incorrectly as an "Edit" button in the Approver module - Corrected.  
2. Added css definition for marc_function.xsl in order to avoid spaces collapsing for fixed MARC fields in the viewer's md display - Corrected.  
3. Metadata labels when using "Show MetaData for" in the viewer are not written in UTF-8 - Corrected.  
4. "Show MetaData for" link in METS/COMPLEX viewer ignores request locale parameter for multi-lingual support - Corrected. | Defect     | Delivery     | 1253  |
| 5           | ALL             | Ingest issues  
1. Missing online help files - Added.  
2. In edit mode of a MARC/DC/MODS transformer ingest activity, when you click the eye icon of the Processing Instruction file, you are shown the Digital Entity template instead - Corrected.  
3. When an ingest is transferred to Deposit in non-automatic mode, editing the ingest activity without saving any changes modifies the existing settings transferred from deposit - Corrected.  
4. Rolling back an activity should delete associated MIDs (not shared ones) which were loaded as part of the ingest - Corrected. | Defect     | Ingest       | 1248  |
<p>| 6           | ALL             | Thumbnail creation fails on files with multiple spaces has been resolved. | Defect     | Tasks/DES    | 1263  |</p>
<table>
<thead>
<tr>
<th>Change ID #</th>
<th>Target Audience</th>
<th>Description</th>
<th>Type</th>
<th>Module/Topic</th>
<th>RPC #</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>ALL</td>
<td>Repository indexing schema values should handle multiple values using standard x-path syntax. For instance, it is now possible to index relations/relation[2]/label or relations/relation/type to index all the relation types.</td>
<td>Defect</td>
<td>General</td>
<td>1272</td>
</tr>
<tr>
<td>8</td>
<td>ALL</td>
<td>TECHNICAL - Delete DE Job performance improvement (Oracle index).</td>
<td>Defect</td>
<td>DES</td>
<td>1273</td>
</tr>
<tr>
<td>9</td>
<td>ALL</td>
<td>In rare cases, i.e., for objects with large technical metadata records associated with a digital entity, it is not possible to link that specific PID to an existing itemized collection in the Meditor. - Corrected</td>
<td>Defect</td>
<td>Meditor</td>
<td>1281</td>
</tr>
<tr>
<td>10</td>
<td>ALL</td>
<td>TECHNICAL - The 'sort' unix command needed updating to support the RH5 enterprise operating system. All relevant scripts using this old syntax were changed to include an updated syntax.</td>
<td>Defect</td>
<td>General</td>
<td>1286</td>
</tr>
<tr>
<td>11</td>
<td>ALL</td>
<td>TECHNICAL - Utility for Oracle 10 support using UTIL 0 7.</td>
<td>Defect</td>
<td>General</td>
<td>1289</td>
</tr>
<tr>
<td>12</td>
<td>ALL</td>
<td>TECHNICAL - IOZ311_file read_1 function checks for ex1_id in both upper and lower cases. It enables Digitool to convert the user name to upper case and still get a GetAttribute response correctly.</td>
<td>Defect</td>
<td>PDS</td>
<td>1292</td>
</tr>
<tr>
<td>13</td>
<td>ALL</td>
<td>User names that contain special characters e.g. '@' can authenticate via DigiTool's X-server</td>
<td>Defect</td>
<td>PDS</td>
<td>1293</td>
</tr>
<tr>
<td>14</td>
<td>ALL</td>
<td>Error when linking record to collection from Meditor, if the title contains special characters - Resolved.</td>
<td>Defect</td>
<td>Meditor</td>
<td>1299</td>
</tr>
<tr>
<td>15</td>
<td>ALL</td>
<td>Thumbnails for parent COMPLEX objects which were created via the MARC transformer are not consistently created. Corrected.</td>
<td>Defect</td>
<td>Ingest</td>
<td>1303</td>
</tr>
<tr>
<td>16</td>
<td>Sites using Resource Discovery</td>
<td>TECHNICAL - ue_01 - allocating the appropriate amount of memory causes a buffer allocation problem.</td>
<td>Defect</td>
<td>RD indexing</td>
<td>1255</td>
</tr>
<tr>
<td>17</td>
<td>Sites using Resource Discovery</td>
<td>Delivery – When search terms containing apostrophes are converted to the plain text viewer, the delivery window opens empty and the search term is not highlighted. This has been corrected.</td>
<td>Defect</td>
<td>Resource Discovery</td>
<td>1274</td>
</tr>
<tr>
<td>18</td>
<td>Sites using Resource Discovery</td>
<td>Resource Discovery - When using the search_link functionality provided by www_r_silo_conf.xml, the apostrophe character is skewed. This has been corrected.</td>
<td>Defect</td>
<td>Resource Discovery</td>
<td>1275</td>
</tr>
<tr>
<td>19</td>
<td>Sites using Resource Discovery</td>
<td>Unnecessary data removed from Z00 during harvesting in order to overcome size limitations on the Silo record in cases of COMPLEX/METS objects with thousands of include records.</td>
<td>Defect</td>
<td>Resource Discovery</td>
<td>1298</td>
</tr>
<tr>
<td>Change ID #</td>
<td>Target Audience</td>
<td>Description</td>
<td>Type</td>
<td>Module/ Topic</td>
<td>RPC #</td>
</tr>
<tr>
<td>------------</td>
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<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>20</td>
<td>Sites using personal collection in RD</td>
<td>Published eShelf now works with the METS viewer.</td>
<td>Defect</td>
<td>Resource Discovery</td>
<td>1266</td>
</tr>
<tr>
<td>21</td>
<td>Sites with COMPLEX objects</td>
<td>COMPLEX orderer (from Meditor) causes unclosed database connections. Resolved.</td>
<td>Defect</td>
<td>Meditor</td>
<td>1261</td>
</tr>
<tr>
<td>22</td>
<td>Sites using Deposit</td>
<td>Deposit module - When check box fields are used in deposit metadata forms, multiple values may need to be transferred to the resulting DC metadata record. These values are now transferred to the resulting DC record (each value to its own field of the same type defined in the metadata form).</td>
<td>Defect</td>
<td>Deposit</td>
<td>1271</td>
</tr>
<tr>
<td>23</td>
<td>Sites using Deposit</td>
<td>Approved deposits referencing deleted post-approval ingest setting templates are still transferred to Ingest, but with empty ingest settings that can be set manually by the user.</td>
<td>Defect</td>
<td>Deposit</td>
<td>1296</td>
</tr>
<tr>
<td>24</td>
<td>Sites using Deposit</td>
<td>Deposit/Approver - filestreams with ampersands in the filename cannot be viewed from the preview page. Resolved.</td>
<td>Defect</td>
<td>Deposit</td>
<td>1282</td>
</tr>
<tr>
<td>25</td>
<td>Sites using Build Hierarchical Collection Job</td>
<td>Build Hierarchical Structure Job: 1.MODS path can now be used for building the hierarchical structure (in addition to DC and MARC) 2.Collection MD (entity type = COLLECTION) is now mapping to the parent collection and not as an additional item.</td>
<td>Defect</td>
<td>MNG job</td>
<td>1262</td>
</tr>
<tr>
<td>26</td>
<td>Sites using repository synchronization</td>
<td>MetadataUpdate job handling is now more lenient in its XML handling and will now accept: 1. MARC parsing when the record is in one line or multiple lines 2. any \n characters present in the XML record 3. with or without an opening xml prefix</td>
<td>Defect</td>
<td>Repository Sync</td>
<td>1297</td>
</tr>
<tr>
<td>27</td>
<td>Sites using repository synchronization</td>
<td>Repository Synchronization - Because the file name structure does not differentiate between AM and PM, a new synchronization file can potentially overwrite an existing but older synchronization file from the same day. This has been corrected.</td>
<td>Defect</td>
<td>Repository Sync</td>
<td>1268</td>
</tr>
<tr>
<td>28</td>
<td>Sites with local md schemas</td>
<td>Local descriptive metadata schemas cannot be viewed in the metadata viewer via local XSL stylesheets. Resolved.</td>
<td>Defect</td>
<td>Delivery</td>
<td>1276</td>
</tr>
<tr>
<td>29</td>
<td>New installations only</td>
<td>TECHNICAL - Fix path to JPEG2000 in global.properties.tml. This is essential for new installations ONLY.</td>
<td>Defect</td>
<td>General</td>
<td>1283</td>
</tr>
<tr>
<td>Change ID #</td>
<td>Target Audience</td>
<td>Description</td>
<td>Type</td>
<td>Module/Topic</td>
<td>RPC #</td>
</tr>
<tr>
<td>------------</td>
<td>----------------</td>
<td>------------------------------------------------------------------------------</td>
<td>---------</td>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>30</td>
<td>New installations only</td>
<td>TECHNICAL - Jpeg2000 Tomcat server multi-instance port handling (New installations only)</td>
<td>Defect</td>
<td>JPEG2000</td>
<td>1249</td>
</tr>
</tbody>
</table>
3. Changes with Implementation Actions (Detailed)

3.1 Change 1 – Collection publishing (formerly media-35 and 36) is now part of harvesting

<table>
<thead>
<tr>
<th>Level</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>ALL</td>
</tr>
<tr>
<td>Type</td>
<td>Enhancement</td>
</tr>
<tr>
<td>Module</td>
<td>Resource Discovery</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y*</td>
</tr>
</tbody>
</table>

**Description**: Collection publishing (formerly media-35 and 36) is now part of harvesting.

Collection publishing to the Resource Discovery is now part of the harvesting process (p_harvest_02). Harvesting in scratch mode recreates all the records and collections in Resource Discovery. Harvesting in update/incremental mode performs an incremental update of records and collections in Resource Discovery.

**Change in log files:**

The harvesting log file (.dtle/scratch/gen01_p_harvest_02.<num>) contains information on starting the collection publish process.

A separate Collection Management log file (.gen01/scratch/p_harvest_02_coll_mng.log) is created. This log file contains all information relevant to the progress of the collection publish process.

**How to switch to the new collection publish process (MANDATORY):**

A special script, p_harvest_02_coll_mng_conv, is designed to perform the switch to the new collection publish process. The script, which fully rebuilds the collection information, should be run only once, when you switch to the new collection publish process.

Alternatively, a harvest from scratch may be run instead of running the p_harvest_02_coll_mng_conv script in order to utilize the new collection publish functionality.

---

ExLibris The bridge to knowledge
Note: Old collection publish procedures (p_media_35 and p_media_36) are not used anymore. The Oracle tables Z126 and Z127 are not used anymore. They are automatically removed from the job_list and Meditor Silo Maintenance Procedures menu.

Instead, the new Oracle tables Z126N and Z127N are added and used by the new collection publish process.

To activate the special script:

1. Switch to new collection publish procedure by performing the following commands:
   - `dlib GEN01`
   - `csh -f $dtl_proc/p_harvest_02_coll_mng_conv GEN01`

   The collection information is fully rebuilt in Resource Discovery.

   **Note the following:**
   - Collection information is unavailable in Resource Discovery during the running of `p_harvest_02_coll_mng_conv`.
   - A harvest from scratch can be run instead of running the `p_harvest_02_coll_mng_conv` script in order to use the new collection publish functionality.

2. If you adjusted any language settings for the Meditor under `pc_b_[lng]/menu-meditor.xml`, remove `p_harvest_01`, `p_media_35`, and `p_media_36` from the Silo Maintenance Procedures section.

   The following example is for `pc_b_eng/menu-meditor.xml`. Before the change, the Silo Maintenance Procedures section looks as follows:

   ```xml
   <sub_menu>
     <group_caption>Silo Maintenance Procedures</group_caption>
     <item>
       <display>Harvest Repository into Silo (harvest-01)</display>
       <file>p-harvest-01</file>
     </item>
     <item>
       <display>Harvest Repository into Silo - v2 (harvest-02)</display>
       <file>p-harvest-02</file>
     </item>
   </sub_menu>
   ```
Update Collections from XML (media-35)

Update Logical Collections and Collection Item Count (media-36)

After the change, it should look like this:

Silo Maintenance Procedures

Harvest Repository into Silo (harvest-02)

Automatic Steps Performed by the SP – For Reference:

1. Automatically added to $user_dev/dat01/file_list:

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Size</th>
<th>Size</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAB</td>
<td>z126n</td>
<td>500K</td>
<td>500K</td>
<td>ts0</td>
</tr>
<tr>
<td>IND</td>
<td>z126n_id</td>
<td>100K</td>
<td>100K</td>
<td>ts1</td>
</tr>
<tr>
<td>IND</td>
<td>z126n_id2</td>
<td>100K</td>
<td>100K</td>
<td>ts1</td>
</tr>
<tr>
<td>IND</td>
<td>z126n_id3</td>
<td>100K</td>
<td>100K</td>
<td>ts1</td>
</tr>
</tbody>
</table>
2. Automatically added to $user_dev/rep00/file_list:

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IND z126n_id4</td>
<td>100K</td>
<td>100K</td>
<td>ts1</td>
</tr>
<tr>
<td>TAB z127n</td>
<td>500K</td>
<td>500K</td>
<td>ts0</td>
</tr>
<tr>
<td>IND z127n_id</td>
<td>100K</td>
<td>100K</td>
<td>ts1</td>
</tr>
<tr>
<td>IND z127n_id2</td>
<td>100K</td>
<td>100K</td>
<td>ts1</td>
</tr>
</tbody>
</table>

3. Remove p_media_35 and p_media_36 from ./dtle/tab/job_list.

Click [here](#) to return to the above table.

### 3.2 Change 2 – Upgrade JBoss version to v 3.2.6

<table>
<thead>
<tr>
<th>Level – Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience – ALL</td>
</tr>
<tr>
<td>Type - Technical</td>
</tr>
<tr>
<td>Module – JBoss</td>
</tr>
<tr>
<td>Automatically enabled – Y</td>
</tr>
</tbody>
</table>

**Description**: TECHNICAL. JBoss version has been upgraded.

Ensure that your version was upgraded from v 3.2.5 to v 3.2.6 by running:


Where <yourserver> is the host name of your server and <jbossport> is the port via which you access JBoss.

If your JBoss version is not v 3.2.6, contact Ex Libris Support.

Click [here](#) to return to the above table.
3.3 Change 3 – Increase z312_source_id from 20 characters to 40 to allow for longer user names during login

<table>
<thead>
<tr>
<th>Level</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>ALL</td>
</tr>
<tr>
<td>Type</td>
<td>Technical</td>
</tr>
<tr>
<td>Module</td>
<td>User Login</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y</td>
</tr>
</tbody>
</table>

**Description**: TECHNICAL. Increase z312_source_id from 20 characters to 40 to allow for longer user names during login.

**Automatic Steps Performed by the SP – For Reference**:  
s+ dat01  
ALTER TABLE Z312 MODIFY Z312_SOURCE_ID char(40);

Click [here](#) to return to the above table.

3.4 Change 4 – JPEG2000 - Update to v 3.18.0.1

<table>
<thead>
<tr>
<th>Level</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>Sites licensed for Jpeg2000</td>
</tr>
<tr>
<td>Type</td>
<td>Enhancement</td>
</tr>
<tr>
<td>Module</td>
<td>Jpeg2000</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y</td>
</tr>
</tbody>
</table>

**Description**: JPEG2000 - Update third-party package to version 3.18.0.1.

**Automatic Steps Performed by the SP – For Reference**:  
When running the command:  
j2kdriver –get-library-version
3.5 Change 5 – DC field management UI

<table>
<thead>
<tr>
<th>Level</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>ALL</td>
</tr>
<tr>
<td>Type</td>
<td>Enhancement</td>
</tr>
<tr>
<td>Module</td>
<td>Management</td>
</tr>
<tr>
<td>✔ Automatically enabled</td>
<td>Y</td>
</tr>
</tbody>
</table>

**Description:** Users with Management privileges can now make changes to Dublin Core elements using a new user interface from the Management module’s **Common > DC Fields** page. Existing fields can be viewed and opened from a left column. Details for the element display in the main pane. Users can edit or delete elements. They can also add new fields using a text link above the list of existing elements.

When users add or edit DC elements through this interface, the following areas are updated without the need to run scripts or restart servers:

- Deposit forms
- Display in Resource Discovery
- Management module
- Meditor cataloging
- Repository indexing
- Silo harvesting
- Silo indexing

For detailed information and instructions, see the **Add a New Dublin Core Field** section in the *DigiTool Configuration Guide.*
Automatic Steps Performed by the SP – For Reference:
The SP automatically converts all server-side configuration files storing Dublin Core field-related setup to UTF-8 encoding. All data in DigiTool should be stored in UTF-8 encoding only.

If your e-mail report denoted this change as status Failed, contact Ex Libris Support.

Click here to return to the above table.

3.6 Change 6 – Handling publish of more than 1000 persistent identifiers

<table>
<thead>
<tr>
<th>Level</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>Sites running Publish PI job</td>
</tr>
<tr>
<td>Type</td>
<td>Defect</td>
</tr>
<tr>
<td>Module</td>
<td>Management</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y</td>
</tr>
</tbody>
</table>

Description: Handling publish of more than 1000 persistent identifiers by handling multi-threaded process properly.

Automatic Steps Performed by the SP – For Reference:
1. In $jdtlh/system/conf/repository_jobs_configuration.xml, add the new hidden fields to the Publish Persistent Identifier job:

   `<x_field>`
   `<input_name>isMT</input_name>`

   `<md_target_name>`

   `<md_custom_target>`

   `<ui_description>`

   `<ui_explanation_text>`

   `<ui_tool_tip>`
<table>
<thead>
<tr>
<th><strong>&lt;x_field&gt;</strong></th>
<th>**&lt;input_name&gt;<strong>numberOfThreads</strong>&lt;/input_name&gt;</th>
<th>**&lt;x_ui_type&gt;<strong>HiddenField</strong>&lt;/x_ui_type&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>&lt;ui_explanation_text&gt;</strong></td>
<td><strong>&lt;ui_tool_tip&gt;</strong></td>
<td>**&lt;x_ui_type&gt;<strong>HiddenField</strong>&lt;/x_ui_type&gt;</td>
</tr>
<tr>
<td><strong>&lt;ui_tool_tip&gt;</strong></td>
<td><strong>&lt;single&gt;true&lt;/single&gt;</strong></td>
<td>**&lt;x_ui_type&gt;<strong>HiddenField</strong>&lt;/x_ui_type&gt;</td>
</tr>
<tr>
<td><strong>&lt;default_value&gt;<strong>true</strong>&lt;/default_value&gt;</strong></td>
<td><strong>&lt;default_value&gt;<strong>true</strong>&lt;/default_value&gt;</strong></td>
<td>**&lt;x_ui_type&gt;<strong>HiddenField</strong>&lt;/x_ui_type&gt;</td>
</tr>
<tr>
<td><strong>&lt;pos_x&gt;<strong>20</strong>&lt;/pos_x&gt;</strong></td>
<td><strong>&lt;pos_x&gt;<strong>20</strong>&lt;/pos_x&gt;</strong></td>
<td>**&lt;x_ui_type&gt;<strong>HiddenField</strong>&lt;/x_ui_type&gt;</td>
</tr>
<tr>
<td><strong>&lt;pos_y&gt;<strong>20</strong>&lt;/pos_y&gt;</strong></td>
<td><strong>&lt;pos_y&gt;<strong>20</strong>&lt;/pos_y&gt;</strong></td>
<td>**&lt;x_ui_type&gt;<strong>HiddenField</strong>&lt;/x_ui_type&gt;</td>
</tr>
<tr>
<td><strong>&lt;mandatory&gt;false&lt;/mandatory&gt;</strong></td>
<td><strong>&lt;mandatory&gt;false&lt;/mandatory&gt;</strong></td>
<td>**&lt;x_ui_type&gt;<strong>HiddenField</strong>&lt;/x_ui_type&gt;</td>
</tr>
<tr>
<td><strong>&lt;logic_type&gt;<strong>8</strong>&lt;/logic_type&gt;</strong></td>
<td><strong>&lt;logic_type&gt;<strong>8</strong>&lt;/logic_type&gt;</strong></td>
<td>**&lt;x_ui_type&gt;<strong>HiddenField</strong>&lt;/x_ui_type&gt;</td>
</tr>
</tbody>
</table>

Click [here](#) to return to the above table.
3.7 Change 7 – Allowing PDS to use institute other than DigiTool for deposit, Meditor, and collection management

<table>
<thead>
<tr>
<th>Level</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>ALL</td>
</tr>
<tr>
<td>Type</td>
<td>Defect</td>
</tr>
<tr>
<td>Module</td>
<td>PDS</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y*</td>
</tr>
</tbody>
</table>

**Description**: Allowing PDS to use institute other than DigiTool for deposit, Meditor, and collection management.

1. **digitool** will be the default PDS institute/calling system and should be the code default. However, a configurable parameter, **pds_user_institute**, with the value **digitool**, has been added to repository_configuration.xml.tmpl. If the default institute name in use by PDS is not digitool, it should be changed here.

2. DigiTool's "passive/silent" logins that are performed via the Meditor and Collection Management modules, will use an additional configurable institute/calling system for staff users only. This parameter is **pds_staff_institute** and its value is **digitool** within repository_configuration.xml.tmpl.

3. Parameters’ external_*_timeout should be set to 60 to avoid external PDS check timeouts. This will now be done automatically, although it was previously recommended that this be done manually.

4. If bor_info returns an error, DigiTool creates a default GUEST user.

5. Any bor_info request made should be made according to the returned id/bor_id/username/z312_source_id from the bor_auth request and not according to the typed in user name.

To activate:
Optionally, the pds institute name can be changed to a locally defined institute.
### Automatic Steps Performed by the SP – For Reference:

1. Add the following line in the `<module name="pds">` section of $jdtlh/profile/overwrites/conf/repository_configuration.xml.tmpl:

   ```xml
   <parameter>
     <p_key>pds_user_institute</p_key>
     <p_val>digitool</p_val>
   </parameter>
   ```

2. Add the following line in the `<module name="pds">` section of $jdtlh/profile/overwrites/conf/repository_configuration.xml.tmpl:

   ```xml
   <parameter>
     <p_key>pds_staff_institute</p_key>
     <p_val>digitool</p_val>
   </parameter>
   ```

3. Change the following line in the `<module name="network">` section of $jdtlh/profile/overwrites/conf/repository_configuration.xml.tmpl:

   From:
   ```xml
   <parameter>
     <p_key>external_connection_timeout</p_key>
     <p_val>2</p_val>
   </parameter>
   ```

   To:
   ```xml
   <parameter>
     <p_key>external_connection_timeout</p_key>
     <p_val>60</p_val>
   </parameter>
   ```

And from:

```xml
<parameter>
```
3.8 Change 8 – Digital entity and metadata search pages have a new UI. Maintenance jobs have a new wizard based on the new DE search.

**Level** – Mandatory  
**Target Audience** – ALL  
**Type** - Enhancement  
**Module** – Management  
**Automatically enabled** – Y

**Description**: Enhancements to Management search and job interfaces:

Repository searching now allows for advanced searches in both the digital entity search and the metadata search. Both search types can toggle between a simple, single-term search and an advanced, multiple-term search using links in the upper right corner of the search form. Advanced searches employ Boolean operator drop-down selections between rows of search terms. Add condition and Delete buttons add and delete rows. For details and instructions, see the sections on Searching in DigiTool and Searches in Meditor in the DigiTool Staff User’s Guide.

Repository digital entity searching has been integrated with the Management module’s New Job wizard. For jobs that perform actions on digital entities, users have the option of conducting a search to narrow the scope of the job. Re-indexing for example, may be required only on objects with an add or update period of the last 24 hours. The search option opens after the job has been selected and the user has proceeded to the next step of the wizard. (If searching is not relevant for the job, as in running
counts on objects, the wizard skips the search step.) After the user conducts the search, the system returns a results list for the user to evaluate. If the results list is not satisfactory, the user can perform the search repeatedly before moving on to the next step and completing the job. For a detailed explanation, see the Job Management section in the DigiTool Staff User’s Guide.

**Note:** If you had any local jobs or settings for management jobs defined in repository_jobs_configuration.xml, note them and re-add these sections to the Ex Libris vanilla version which will override your version as part of this v 3.2 release. The changes to the job infrastructure were too vast to perform this change automatically via merge functionality.

**Automatic Steps Performed by the SP – For Reference:**

1. Copy repository_jobs_configuration.xml from home.orig to home:
   ```
   cp $jdtlh/../home.orig/system/conf/repository_jobs_configuration.xml
   $jdtlh/system/conf/
   ```

2. Add the following parameter to the `general` section of $jdtlh/profile/overwrites/conf/repository_configuration.xml.tmpl:
   ```
   <parameter>
     <p_key>repository_jobs_values_file</p_key>
     <p_val>@@pc.tab.exp.field@@</p_val>
   </parameter>
   ```

3. Change the repository_configuration.xml `system_date_format` to dd/MM/yyyy.

4. Add the following line to the global.properties.tml file:
   ```
   pc.tab.exp.field=@_A_MOUNT/u3 @_AL_COPY/dat01/tab/pc_tab_exp_field.eng
   ```

5. Add the following line to $jdtlh/system/conf/i18n/global.properties (where u3_1 is your copy number):
   ```
   pc.tab.exp.field=/exlibris/dtl/u3_1/dat01/tab/pc_tab_exp_field.eng
   ```

6. Remove all commons-collections*.* from the
   ${jdtlh}/system/thirdparty/openserver/server/default/lib directory and replace them with the commons-collections.jar from ${jdtlh}../home.orig/system/thirdparty/openserver/server/default/lib.
7. Add the following lines to: `$/jdtlh/system/conf/i18n/messages*.properties`:

```
mng.wizard.maintenance.job.selection=Maintenance job selection
mng.wizard.job.population=Job population
mng.wizard.job.additional.details=Job additional details
mng.wizard.confirm.job.details=Confirm job details
mng.maintenance.monitor.scheduled.jobs=Scheduled Jobs
mng.maintenance.monitor.running.jobs=Running Jobs
mng.maintenance.monitor.completed.jobs=Completed Jobs
mng.maintenance.monitor.table.log=View Log
mng.maintenance.monitor.table.id=Id
mng.maintenance.monitor.table.name=Name
mng.maintenance.monitor.table.start.time=Start Time
mng.maintenance.monitor.table.admin.unit=Admin Unit
mng.maintenance.monitor.table.staff.user=Staff User
mng.maintenance.monitor.table.status=Status
scd.scheduling.schedule_label=Click to change scheduling
scd.scheduling.scheduleASAP_label=Start ASAP
scd.dialog.form.command.ok=OK
scd.dialog.form.command.cancel=Cancel
scd.dialog.form.scheduling.lbl={0} at {1} starting from {2}
scd.dialog.form.scheduling_type.title=Scheduling Type
scd.dialog.form.scheduling_type.asap=Start ASAP
scd.dialog.form.scheduling_type.once=Once
scd.dialog.form.scheduling_type.daily=Daily
scd.dialog.form.scheduling_type.weekly=Weekly
scd.dialog.form.scheduling_type.monthly=Monthly
scd.dialog.form.scheduling_params.title=Scheduling Parameters
scd.dialog.form.scheduling_params.start_asap=Start ASAP
scd.dialog.form.scheduling_params.start_at=Start at:
```
scd.dialog.form.scheduling_params.start_time=Time
scd.dialog.form.scheduling_params.start_date=Date
scd.dialog.form.scheduling_params.start_time_am=AM
scd.dialog.form.scheduling_params.start_time_pm=PM
scd.dialog.form.scheduling_params.repeat=Repeat:
scd.dialog.form.scheduling_params.repeat.until=Until
scd.dialog.form.scheduling_params.repeat.indefinite=Indefinite
scd.dialog.form.scheduling_params.perform.daily=Perform this task:
scd.dialog.form.scheduling_params.perform.daily.every_day=Every day
scd.dialog.form.scheduling_params.perform.daily.every_xdays=Every {0} days
scd.dialog.form.scheduling_params.perform.daily.every_xdays.every=Every
scd.dialog.form.scheduling_params.perform.weekly=Perform this task on:
scd.dialog.form.scheduling_params.weekdays.1=Sunday
scd.dialog.form.scheduling_params.weekdays.2=Monday
scd.dialog.form.scheduling_params.weekdays.3=Tuesday
scd.dialog.form.scheduling_params.weekdays.4=Wednesday
scd.dialog.form.scheduling_params.weekdays.5=Thursday
scd.dialog.form.scheduling_params.weekdays.6=Friday
scd.dialog.form.scheduling_params.weekdays.7=Saturday
scd.dialog.form.scheduling_params.perform.monthly=Perform this task at:
scd.dialog.form.scheduling_params.perform.monthly.day_number=Day
scd.dialog.form.scheduling_params.perform.monthly.weekday=The
scd.dialog.form.scheduling_params.perform.monthly.weekday_number.no_selection=---
scd.dialog.form.scheduling_params.perform.monthly.weekday_number.first=first
Click [here](#) to return to the above table.
3.9 Change 9 – Update of ImageMagick to v 6.4.1

**Level** – Mandatory
**Target Audience** – ALL
**Type** - Enhancement
**Module** – Tasks/Delivery
**Automatically enabled** – Y

**Description**: Update of ImageMagick version to v 6.4.1

**Automatic Steps Performed by the SP – For Reference:**

When running the command:

```
convert --version
```

The following should be the output:

```
Version: ImageMagick 6.4.1 08/14/08 Q16 http://www.imagemagick.org
Copyright: Copyright (C) 1999-2008 ImageMagick Studio LLC
```

If it is not, contact Ex Libris Support.

Click [here](#) to return to the above table.

3.10 Change 10 – Webingest - ImageUploader ActiveX replaced by Java Applet

**Level** – Mandatory
**Target Audience** – ALL
**Type** - Enhancement
**Module** – Ingest
**Automatically enabled** – Y

**Description**: Webingest - ImageUploader ActiveX replaced by Java Applet
Automatic Performed Steps Performed by the SP – For Reference:

1. In $jdtlh/profile/global.properties (and global.properties.tml), add the new Java applet license to the following parameter:

```
applet_uploader_license=YOURLICENSE#
```

Your license number should be updated by the SP automatically. If the file uploader does not work after you install SP 22, contact Ex Libris Support.

2. Add the following to $jdtlh/profile/overwrites/repository_configuration.xml.tmpl in the parameters of module[@name='general']:

```
<p_key>applet_uploader_license</p_key>
<p_val>YOURLICENSE#</p_val>
```

Click [here](#) to return to the above table.

### 3.11 Change 11 – METS root element type should be stored as separate metadata

<table>
<thead>
<tr>
<th>Level</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>Sites using METS</td>
</tr>
<tr>
<td>Type</td>
<td>Enhancement</td>
</tr>
<tr>
<td>Module</td>
<td>Delivery</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y*</td>
</tr>
</tbody>
</table>

**Description:** The METS root metadata element is now saved within unique and new metadata in the repository. The METS type stored in the METS root element is necessary when using the mets_view_profile to filter views of METS during delivery. Previously, the METS type was mapped to the control/label, but it is now taken from the new metadata, thus allowing you to change the METS label without affecting the mets_view_profile delivery.

To update the existing METS with the new metadata, based on the METS root element data:

1. Back up the repository – REP00
2. Run the following: $jdtlh_bin/metsTypeTool.sh
Automatic Steps Performed by the SP – For Reference:

1. Add the following parameter to the repository_configuration.xml.tmpl, under the general module element:

   ```xml
   <metadata>
     <id>30</id>
     <name>mets_type</name>
     <type>metsType</type>
     <allow_multiple>false</allow_multiple>
     <validation_schema></validation_schema>
   </metadata>
   ```

Click [here](#) to return to the above table.

3.12 Change 12 – Add metadata job/task file size limitation works by "larger than" and "smaller than" filter

<table>
<thead>
<tr>
<th>Level</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>ALL</td>
</tr>
<tr>
<td>Type</td>
<td>Enhancement</td>
</tr>
<tr>
<td>Module</td>
<td>Ingest/DES</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y</td>
</tr>
</tbody>
</table>

**Description:** The “Add metadata job/task file size” limitation works using the "larger than" and "smaller than" filter.

**Automatic Steps Performed by the SP – For Reference:**

1. In $jdtlh/system/conf/i18n/dynamic_messages*.properties, add the following lines:

   ```properties
   i.task.MetadataInserter.SizeFrom=Filter on Files smaller than File Size
   i.task.MetadataInserter.SizeTo=Filter on Files greater than File Size
   ```
2. Replace the following line in the existing handler (<preingest_handler name="Add Metadata" task_name="MetadataInserter" />) section in $jdtlh/system/conf/repository_stream_handler.xml:

```
<default_param name="Filter on Files smaller than File Size" param_name="Size" type="text" value="" />
```

with:

```
<default_param name="Filter on File Extension" param_name="Extension" type="text" value=""/>
<default_param name="Filter on Files smaller than File Size" param_name="SizeFrom" type="text" value=""/>
```

3. In the $jdtlh/system/conf/repository_jobs_configuration.xml file, <repository_job name="Add Metadata" type="processing"> should be replaced entirely by the version's section in $jdtlh/../home.orig/system/conf/repository_jobs_configuration.xml.

Click [here](#) to return to the above table.

### 3.13 Change 13 – Allowing ingest of multiple METS in a single ingest activity

<table>
<thead>
<tr>
<th>Level</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>ALL</td>
</tr>
<tr>
<td>Type</td>
<td>Enhancement</td>
</tr>
<tr>
<td>Module</td>
<td>Ingest</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y</td>
</tr>
</tbody>
</table>

**Description:** In the Ingest module, users can ingest multiple METS files in a single New Ingest Activity via multiple .zip files with METS content. After selecting the **METS xml file and associated file stream(s)** from the **Ingest Type** drop-down menu on the first page of the wizard, you have the option, on the Parameters page, to select **Yes** for the option **Multifile Mets Upload Option**. METS files must be in .zip format to perform multiple file uploads. For additional information, see the Ingest sections with the subheading **METS XML File and Associated File Stream(s)** in the **DigiTool Configuration Guide** and the **DigiTool Staff Guide**.
Automatic Steps Performed by the SP – For Reference:

1. In the $jdtlh/profile/overwrites/conf/repository_configuration.xml.tmpl file, in the mets transformer section, under transformers/transformer[id=7]/transformer_parameters, add the following line:

   ```xml
   <transformer_parameter value="Upload multi-Mets zips" options="No,Yes" name="multi_mets_upload" description="Multifile Mets Upload Option" type="generic_combo" />
   ```

2. Add the following parameter in the webingest module, under //modules/module[@name="webingest"]/parameters, in the same file as above:

   ```xml
   <parameter>
   <p_key>max_parallel_ingest</p_key>
   <p_val>5</p_val>
   </parameter>
   ```

Click [here](#) to return to the above table.

### 3.14 Change 14 – BIRT reporting infrastructure

<table>
<thead>
<tr>
<th>Level – Mandatory</th>
<th>Target Audience – ALL</th>
<th>Type – Enhancement</th>
<th>Module – Management</th>
<th>Automatically enabled – Y</th>
</tr>
</thead>
</table>

**Description:** A new report infrastructure has been added to DigiTool. This infrastructure is available automatically with the installation of this SP. For a detailed explanation of the new Reports tab in the Management module, as well as the Collection Distribution Summary report, see the Viewing Reports section in the DigiTool Staff Guide.

**Automatic Steps Performed by the SP – For Reference:**

1. Add the following line to $jdtlh/system/conf/i18n/messages*.properties:

   ```properties
   b.report.list.title=Report selection
   ```

2. Add the following lines to $jdtlh/system/conf/i18n/global.properties.tmpl:

   ```properties
   dbconnection.report.username=d3@_AL_COPY_rpt00
   ```
dbconnection.report.password=d3@_AL_COPY_rpt00

3. Add the following line to $jdtlh/system/conf/i18n/global.properties:

```
dbconnection.report.username=d31_rpt00
dbconnection.report.password=d31_rpt00
```

(where d31 assumes DigiTool is installed on copy 3_1)

4. Copy META-INF directories to the corresponding directories in $jdtl_jb_def_deploy/digitool-report.war/WEB-INF/platform/plugins/

```
cp -r $jdtlh/../home.orig/system/thirdparty/openserver/server/default/deploy/digitool-report.war/WEB-INF/platform/plugins/com.lowagie.itext_1.5.4.v20080228/META-INF $jdtl_jb_def_deploy/digitool-report.war/WEB-INF/platform/plugins/com.lowagie.itext_1.5.4.v20080228/
```

5. Check that the reporting schema was created by typing:

```
s+ rpt00
```

If not successfully connected, contact Ex Libris Support.

Click [here](#) to return to the above table.

### 3.15 Change 15 – Technical changes for version

<table>
<thead>
<tr>
<th>Level – Mandatory</th>
<th>Target Audience – ALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type - Enhancement</td>
<td>Module – ALL</td>
</tr>
<tr>
<td>Automatically enabled – Y</td>
<td></td>
</tr>
</tbody>
</table>

**Description:** Technical changes to OAI directories and version number.

**Automatic Steps Performed by the SP – For Reference:**

1. If $dtl_dev/oai01/scratch does not exist, do the following:

```
cp -r $dtl_dev/oai01/scratch $user_dev/oai01
```
2. If $dtl_dev/oai01/files does not exist, do the following:
cp -r $dtl_dev/oai01/files $user_dev/oai01

3. At $user_dev/dtle/dtl_start and $user_dev/dtle/dtl_start.tml:
Change DTL_REVISION from 10 to 20

Click [here](#) to return to the above table.

### 3.16 Change 16 – Allow choosing default Handle index for publish

<table>
<thead>
<tr>
<th>Level – Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience – Sites using Handle</td>
</tr>
<tr>
<td>Type - Enhancement</td>
</tr>
<tr>
<td>Module – Publish Persistent identifiers</td>
</tr>
<tr>
<td>Automatically enabled – Y*</td>
</tr>
</tbody>
</table>

**Description**: Publishing of persistent identifiers (Handle) now allows for a default to be enabled which will designate a specific URL used as the default index code in the Handle global registry. This code will be represented by index=200.

**To activate/use:**

By adding a default="true" attribute to the desired URL default in the pi_publisher_rules.xml setup, this particular URL index code will be set as index code 200 as well. In the example below, the stream_manifestation URL is designated as the default URL when accessed via Handle after being published by DigiTool.
3.17 Change 17 – Handling of CMYK images

**Description:** Delivery and Conversion of CMYK images. By adding -colorspace RGB to all image conversions using ImageMagick, CMYK images can be rendered for viewing by the browser.

**To activate:**

1. In `$jdtlh/system/conf/repository_stream_handler.xml`, add -colorspace RGB to the `stream_handler_util` for all locations that utilize ImageMagick. By default, the `jpg_thumbnail`, `jp2_thumbnail` and `pdf_thumbnail` use this.

```xml
<stream_handler_util name="jpg_thumbnail" type="external_program" worker="run_jpg_thumbnail" script="true" params_pattern="-resize 150x150 -colorspace RGB $1 $2">
    <event_details event_type="Thumbnail Creation" event_details="Making a thumbnail from an image file" software_used="JMagick" />
</stream_handler_util>
```
2. Add the viewer parameter to the delivery rule of the delivery rules using the JpegViewerPreProcessor:

param name: convert
param value: -colorspace RGB

Click here to return to the above table.

### 3.18 Change 18 – Typo in Meditor: Suppressed

<table>
<thead>
<tr>
<th>Level – Recommended</th>
<th>Target Audience – ALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type - Enhancement</td>
<td>Module – Meditor</td>
</tr>
<tr>
<td>Automatically enabled – N</td>
<td></td>
</tr>
</tbody>
</table>

**Description**: Typo in Meditor control section dropdown menu.

Status SUPPRESSED (sic) should be SUPPRESSED.
3.19 Change 19 – Deposit PDS allows assigning deposit profile at the time of depositor login, based on mapping rules

<table>
<thead>
<tr>
<th>Level – Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience – Sites using Deposit</td>
</tr>
<tr>
<td>Type - Enhancement</td>
</tr>
<tr>
<td>Module – Deposit</td>
</tr>
<tr>
<td>Automatically enabled – Y</td>
</tr>
</tbody>
</table>

**Description:** Deposit Enhancement - Currently, in order to become a depositor in DigiTool, a patron must request a profile within a particular administrative unit, and the staff must manually assign this patron a deposit profile within the unit the user requested.

The goal of this enhancement is to allow automatic assignment of a profile and Admin unit according to the patron’s user information in the user field z312-institute (not to be confused with the PDS institute/calling system) at the time of logon, using the standard PDS framework for user authentication used in DigiTool. For additional information, see the Depositors and Deposit Profiles portion of the User Management section in the DigiTool Configuration Guide.

**To activate/use:**

Optionally, this feature can be activated using a two-step setup:

1. A global list of potential user-field institute values your users may possess, as well as the Admin unit with which they are associated. This is configured in the REP00 Deposit tab.

2. A mapping between the user-field institutes and a depositor profile, defined per Admin unit, in a new Registration Rules management sub-tab under the Deposit tab.
This tab will have the user-field institutes, the appropriate deposit profile to associate with users of this admin unit, and information as to whether or not the automatic profile assignment is enabled. By default, the registration rule is enabled. When disabled, staff users will need to manually apply a depositor profile to their unit users.

**Note:** If you use SSO, or your PDS is defined in a different Ex Libris product (such as MetaLib, Aleph, or Primo), you may need to use the user-field z312-institute mapping specifically for DigiTool by utilizing a PDS institute.tags file under $dtl_dev/pds/conf_table. The PDS institute is determined by what comes after tab_service.<pdsinstitute>. By default, its value is DIGITOOL.

For instance, if you would like a user’s institute values to be populated in DigiTool based on other more granular user attributes - for instance GROUP - you can define specific mapping used only by DigiTool so that in DigiTool z312-institute would be used for purposes of mapping deposit information, whereas in other Ex Libris products, z312-institute would be used for other purposes.

The following is a sample of a DIGITOOL.tags setup where a user with GROUP=01 is defined as z312-institute = SCIENCE. Users of GROUP 02 and 03 are mapped uniquely as well. Such users are automatically assigned a unit and deposit profile relevant for each user via the registration rules mentioned above.

<table>
<thead>
<tr>
<th>attributes+values mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>bor-group,01 = z312-institute,SCIENCE</td>
</tr>
<tr>
<td>bor-group,02 = z312-institute,SOCIAL</td>
</tr>
<tr>
<td>bor-group,03 = z312-institute,UNDERGRAD</td>
</tr>
</tbody>
</table>

Click [here](#) to return to the above table.

### 3.20 Change 20 – Prevent passwords from appearing in clear text in the JBoss server access logs

<table>
<thead>
<tr>
<th>Level</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>ALL</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td><strong>Defect</strong></td>
</tr>
<tr>
<td>Module</td>
<td><strong>General</strong></td>
</tr>
<tr>
<td>Automatically enabled</td>
<td><strong>N</strong></td>
</tr>
</tbody>
</table>

**Description:** Prevent passwords from appearing in clear text in the JBoss server access logs
To activate:

1. Update $jdtl_jb_def_deploy/jbossweb-tomcat.sar/server.xml and change the following:

From:
```xml
<Valve className="org.apache.catalina.valves.AccessLogValve"
    prefix="localhost_access_log." suffix=".log"
    pattern="common" directory="${jboss.server.home.dir}/log"
    resolveHosts="false" />
```

To:
```xml
<Valve className="com.exlibris.digitool.security.DigitoolAccessLogValve"
    prefix="localhost_access_log." suffix=".log"
    pattern="common" directory="${jboss.server.home.dir}/log"
    resolveHosts="false" />
```

Automatic Steps Performed by the SP – For Reference:
Add digitool-accesslog.jar to $jdtl_jb_def_deploy/jbossweb-tomcat.sar/

Click here to return to the above table.

3.21 Change 21 – Added the GeneralManifestation framework to repository_jobs_configuration management jobs

<table>
<thead>
<tr>
<th>Level – Recommended</th>
<th>Target Audience – ALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type - Enhancement</td>
<td>Module – Resource Discovery</td>
</tr>
<tr>
<td>Automatically enabled – Y</td>
<td></td>
</tr>
</tbody>
</table>

**Description:** Repository Maintenance Job framework enhancement - Added the GeneralManifestation framework to allow running local derivative-based tasks - previously available only during ingest - as a repository maintenance job.

If you use multiple GeneralManifestation jobs (1, 2, 3, etc.), each will be made available in the job UI as a drop-down menu.
**Automatic Steps Performed by the SP – For Reference:**

1. Add the following line to `system/conf/ExLibMessageFile.properties`:

   ```
   36406=Manifestation already exists
   ```

2. Add the following to `$jdtlh/system/conf/repository_jobs_configuration.xml`:

   ```
   <repository_job name="General Manifestation" type="processing">
   ...
   </repository_job>
   ```

Click [here](#) to return to the above table.

---

### 3.22 Change 22 – Added option to configure `jboss.bind.address` (default is 0.0.0.0)

<table>
<thead>
<tr>
<th>Level</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>ALL</td>
</tr>
<tr>
<td>Type</td>
<td>Enhancement</td>
</tr>
<tr>
<td>Module</td>
<td>General</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y*</td>
</tr>
</tbody>
</table>

**Description**: Added option to configure `jboss.bind.address` (default is 0.0.0.0)

**Automatic Steps Performed by the SP – For Reference:**

1. In `$jdtlh/profile/global.properties.tml`, add the following line:

   ```
   jboss.bind.address=0.0.0.0
   ```

   This is the same functionality as previously existed. However, the enhancement is the ability to set the `jboss.bind.address` to a value other than 0.0.0.0.

Click [here](#) to return to the above table.
**3.23 Change 23 – New repository replication transformer allows replicating local metadata**

**Level** – Optional  
**Target Audience** – ALL  
**Type** - Enhancement  
**Module** – Repository Replication  
**Automatically enabled** – N

**Description**: Generic metadata transformer – Added a new transformer to the repository replication that enables the extraction of any given metadata by a given xsl. This is particularly useful if you use your own local metadata schema.

**To activate/use:**

Example: replicating your local metadata for OAI providing.

Within $jdtlh/profile/replications/conf/repository_replication.xml:

```xml
<target type="class"  
class_name="com.exlibris.digitool.repository.de.DigitalEntityOAIReplicator">
  <params>
    <param name="db_url">dbc:oracle:thin:@yourserver:1521:dtl1</param>
    <param name="db_username">d31_oai01</param>
    <param name="db_password">d31_oai01</param>
    <param name="set_spec">mymdset</param>
    <param name="metadata_format">mymd</param>
  </params>
  <format_convertor type="class"  
  convertor="com.exlibris.digitool.repository.de.GenericMetadataTransformer">
    <params>
      <param name="my_md">De2MyMd.xsl</param>
    </params>
  </format_convertor>
</target>
```

Where De2MyMd.xsl resides under $jdtlh/system/xsl (and $jdtlh/profile/overwrites/xsl)

Click [here](#) to return to the above table.
3.24 Change 24 – Allow mapping MID value for shared metadata when ingesting using CSV

<table>
<thead>
<tr>
<th>Level</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>ALL</td>
</tr>
<tr>
<td>Type</td>
<td>Enhancement</td>
</tr>
<tr>
<td>Module</td>
<td>Ingest</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>N</td>
</tr>
</tbody>
</table>

**Description:** Ingest CSV enhancement – Added the ability to the CSV transformer to map a given MID to be shared/copied to digital entities being loaded.

**To activate:**

Use the following syntax in mapping.xml:

```xml
<x_map>
   <x_source position="12"/>
   <x_target isMid="true">
   </x_target>
</x_map>
```

For instance, in column 12 of your CSV, you may want to link the data being loaded via CSV to existing MIDs already in the DigiTool repository. This can be achieved by noting the isMid="true" within the mapping. As a result, the digital entities will be shared with the MID recorded in the CSV's 12th column.

**Note:** If the MID in your CSV file does not exist, an error message will be generated, but the digital entity will be loaded without the shared metadata.

Click [here](#) to return to the above table.
3.25 Change 25 – OAI number of records in resumptionToken configurable

<table>
<thead>
<tr>
<th>Level</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Audience</td>
<td>OAI providers</td>
</tr>
<tr>
<td>Type</td>
<td>Enhancement</td>
</tr>
<tr>
<td>Module</td>
<td>OAI</td>
</tr>
<tr>
<td>Automatically enabled</td>
<td>Y*</td>
</tr>
</tbody>
</table>

**Description:** OAI – The number of records per resumptionToken is now configurable. The maxRecordsNumber is now active within $dtle_tab/oai/oaipubconf.xml. The value should be numeric. It is not mandatory to add the tag, and the default value is 1000.

**To activate:**

Within $dtle_tab/oai/oaipubconf.xml in section <oairoot>, add the following line or ensure that it is present:

`<maxRecordsNumber>1000</maxRecordsNumber>`

Click [here](#) to return to the above table.