Database update implementation for OCLC Z39.50 Cataloging: Extended Service Definition

The general definition used by OCLC to implement the capabilities for setting institution holding symbols.

Purpose

OCLC supports setting and deleting institution holding symbols via the Z39.50-1995 DatabaseUpdate Extended Service Definition. The following is the general definition of how OCLC has implemented these Z39.50-1995 capabilities in its target server. Refer to The Z39.50 Document for more information about the Extended Services DatabaseUpdate Service.

Service definitions

The OCLC Z39.50 server does not maintain a task package database. All databaseUpdate tasks are assumed waited. The OCLC Z39.50 server DatabaseUpdate Extended Service supports only the creation of a task package that will be returned in the response.

Extended service common parameters implementation

<table>
<thead>
<tr>
<th>COMMON TASK PACKAGE PARAMETER</th>
<th>ORIGIN SUPPLIED</th>
<th>TARGET RESPONSE</th>
<th>TASK PACKAGE PARAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td>x (Create only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>packageType</td>
<td>x (DatabaseUpdate)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>taskStatus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>packageDiagnostic</td>
<td></td>
<td>x (opt)</td>
<td>x</td>
</tr>
<tr>
<td>Task-Specific-parameters</td>
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<td></td>
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</tr>
<tr>
<td>Task-package</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>operation status</td>
<td></td>
<td></td>
<td>x</td>
</tr>
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</table>
Task-specific-parameters for DatabaseUpdate

<table>
<thead>
<tr>
<th>COMMON TASK PACKAGE PARAMETER</th>
<th>ORIGIN SUPPLIED</th>
<th>TARGET SUPPLIED</th>
<th>TASK PACKAGE PARAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>action</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>databaseName</td>
<td>x</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>suppliedRecords</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>taskStatus</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

Updating holdings

```plaintext
databaseName = "oclc_oluc_holdings"
action       = elementUpdate
suppliedRecords ::= SEQUENCE OF SEQUENCE {record [4] IMPLICIT EXTERNAL}
-- note only one record will be accepted per request.
oid=1.2.840.10003.5.1000.17.1
holdingSymbolRecord ::= SEQUENCE {
                        olucRecordNumber[5] IMPLICIT InternationalString
```  

Delete holdings

```plaintext
databaseName = "oclc_oluc_holdings"
action       = elementUpdate
suppliedRecords ::= SEQUENCE OF SEQUENCE {record [4] IMPLICIT EXTERNAL}
-- note only one record will be accepted per request.
oid=1.2.840.10003.5.1000.17.1002
holdingSymbolRecord ::= SEQUENCE {
                        olucRecordNumber[5] IMPLICIT InternationalString
```  

Record numbers

8-digit

If the number is 8 or fewer digits, the form should be "ocm" + OCLC accession number. The number may or may not contain leading zeroes and a single trailing space.
Example: These two variations both result in the same record being updated:

- ocm1
- ocm00000001

9-digit

If the number is 9 digits, the form should be "ocn" + OCLC accession number. The number will not contain a trailing space.

Example: ocn100000000

10-digit

If the number is 10 or more digits, the form should be "on" + OCLC accession number. The number will not contain a trailing space.

Example: on1234567891

The institution symbol associated with the authorization supplied in the Init Service will be used to update/delete the holdings database.