Aleph: EDI from A to Z

Randy Menakes
Aleph Senior Support Analyst
Randy.Menakes@exlibrisgroup.com
Copyright Statement

All of the information and material inclusive of text, images, logos, product names is either the property of, or used with permission by Ex Libris Ltd. The information may not be distributed, modified, displayed, reproduced – in whole or in part – without the prior written permission of Ex Libris Ltd.

TRADEMARKS

Ex Libris, the Ex Libris logo, Aleph, Alma, SFX, SFXIT, MetaLib, DigiTool, Verde, Primo, Voyager, MetaSearch, MetaIndex and other Ex Libris products and services referenced herein are trademarks of Ex Libris, and may be registered in certain jurisdictions. All other product names, company names, marks and logos referenced may be trademarks of their respective owners.

DISCLAIMER

The information contained in this document is compiled from various sources and provided on an "AS IS" basis for general information purposes only without any representations, conditions or warranties whether express or implied, including any implied warranties of satisfactory quality, completeness, accuracy or fitness for a particular purpose.

Ex Libris, its subsidiaries and related corporations ("Ex Libris Group") disclaim any and all liability for all use of this information, including losses, damages, claims or expenses any person may incur as a result of the use of this information, even if advised of the possibility of such loss or damage.

© Ex Libris Ltd., 2014
Agenda

What Is EDI? EDItEUR? EDIFACT?
What Does EDI Look Like?
How Is EDI Used in Aleph?
Configuring EDI in Aleph
Aleph’s EDI Directories
Troubleshooting EDI Problems
Re-running EDI Processes
Resources
Agenda

What Is EDI? EDIEUR? EDIFACT?
What Does EDI Look Like?
How Is EDI Used in Aleph?
Configuring EDI in Aleph
Aleph’s EDI Directories
Troubleshooting EDI Problems
Re-running EDI Processes
Resources
What Is EDI? EDItEUR? EDIFACT?

• The EDItEUR standard
• The EDItEUR website:
  • http://www.editeur.org/
• Libraries’ use of the standard:
  • http://www.editeur.org/31/Library-Book-Supply/
  • http://www.editeur.org/48/Serials-and-Subscription-Products/
Agenda

What Is EDI? EDItEUR? EDIFACT?

What Does EDI Look Like?
How Is EDI Used in Aleph?
Configuring EDI in Aleph
Aleph’s EDI Directories
Troubleshooting EDI Problems
Re-running EDI Processes
Resources
<table>
<thead>
<tr>
<th>What Does an EDI Message Look Like?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Examining an EDI message (e.g. Invoice)</td>
</tr>
<tr>
<td>• Relating the EDI Invoice to the EDItEUR standard</td>
</tr>
<tr>
<td>• Understanding the Difference between an EDI Transmission and an EDI Message</td>
</tr>
</tbody>
</table>
Agenda

What Is EDI? EDItEUR? EDIFACT?
What Does EDI Look Like?

**How Is EDI Used in Aleph?**
Configuring EDI in Aleph
Aleph's EDI Directories
Troubleshooting EDI Problems
Re-running EDI Processes
Resources
How Is EDI Used in Aleph?

- 2 Models
  - All transmissions with a specific vendor use EDI messaging (Claims may be an exception)
  - Only incoming transmissions with a vendor use EDI messaging
### How EDI Is Used in Aleph – Model 1

<table>
<thead>
<tr>
<th><strong>edi-11</strong></th>
<th>Send Outgoing EDI Messages</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Send Orders</td>
</tr>
<tr>
<td></td>
<td>Send Claims</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>edi-09</strong></th>
<th>Process EDI Incoming Messages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>edi-12</strong></td>
<td>EDI Invoice Load – Preview (v.22)</td>
</tr>
<tr>
<td><strong>edi-10</strong></td>
<td>Load EDI Incoming Messages</td>
</tr>
<tr>
<td></td>
<td>Receive Invoices</td>
</tr>
<tr>
<td></td>
<td>Receive Order/Claim Responses</td>
</tr>
</tbody>
</table>
# How EDI Is Used in Aleph – Model 2

- **file-96** (Generic Vendor Records Loader)
  - Create Orders (with Vendor Reference Number)
- **edi-09** (Process EDI Incoming Messages)
- **edi-12** (EDI Invoice Load – Preview) (v.22)
- **edi-10** (Load EDI Incoming Messages)
  - Receive Invoices
Agenda

What Is EDI? EDItEUR?
EDIFACT?

What Does EDI Look Like?

How Is EDI Used in Aleph?

Configuring EDI in Aleph

Aleph’s EDI Directories
Troubleshooting EDI Problems
Re-running EDI Processes
Resources
Configuring EDI in Aleph

- Aleph Vendor Record
- **tab35**
  - Basic configuration table for identifying EDI suppliers/vendors
- **edi_out_attr**
  - Options for outgoing EDI messages
- **edi_in_attr**
  - Options for incoming EDI messages
- **tab100** (in the ADM Library)
Configuring EDI in Aleph – Vendor Record

- Vendor EDI Code and Vendor EDI Type
- Vendor EDI Type
  - 014 – EAN-13
  - 31B – US SAN (Standard Address Number)
  - 091 – Code assigned by supplier
  - 092 – Code assigned by buyer (that is, by the library)
- EDI for Order Only checkbox
- Letter and List Send Methods
- Vendor Address/tab5 – EDI Address
## Configuring EDI in Aleph – tab35

- Use Vendor Code – not Vendor EDI Code
  - The Vendor record includes both these codes
  - Best practice is if the two codes are the same
- Use your EDI Code for ‘Customer’s EDI Code’
- What is ‘Customer’s EDI code type”?
  - 31B – US SAN (Standard Address Number)
  - 014 – EAN-13
  - 091 – Code assigned by supplier
  - 092 – Code assigned by buyer (that is, by the library)
<table>
<thead>
<tr>
<th>Configuring EDI in Aleph – edi_out_attr</th>
</tr>
</thead>
<tbody>
<tr>
<td>• File naming conventions</td>
</tr>
<tr>
<td>• ftp data representation – ASCII vs. Binary</td>
</tr>
<tr>
<td>• Inclusion of (Additional) Order Number 1</td>
</tr>
<tr>
<td>• Inclusion of (Additional) Order Number 2</td>
</tr>
<tr>
<td>• ftp mode – Active vs. Passive</td>
</tr>
<tr>
<td>• Linux considerations</td>
</tr>
<tr>
<td>• ftp send mode – APPEND vs. PUT</td>
</tr>
<tr>
<td>• Inclusion of Budget Code</td>
</tr>
</tbody>
</table>
Configuring EDI in Aleph – edi_in_attr

- Formatting options for ALEPH Invoice Note on incoming Serial EDI Invoices
  - Free Text (FTX) only
  - Free Text (FTX) plus Item Description (IMD) and Invoicing Period (DTM)
- Options for loading Additional Invoice charges
  - Prorating across Line Items
  - Creating a separate ‘dummy’ Line Item
**Configuring EDI in Aleph – tab100 (ADM)**

- Four EDI-specific parameters
  - EDI-OUT-LIBRARY-NOTE= Y or N
  - EDI-OUT-VENDOR-NOTE= Y or N
  - EDI-OUT-PRICE-NOTE= Y or N
  - EDI-OUT-QUANTITY-NOTE= Y or N
- The default in all cases is Y
Keeping Up with the Latest EDI Options

- New options are added regularly
- The standard User Guide and System Librarian Guide documentation may not include the most recent additions for EDI
- Rely on the individual table headers for the latest EDI configuration documentation
Aleph Counters/Sequences (z52 table)

- Specific procedures and specific options require specific counters/sequences
  - last-edi-log-no
  - last-edi-message
  - last-edi-order
  - last-edi-claim
  - last-edi-order-chang
  - blackwell_file_seq
Adding an Aleph Sequence to the z52 table

- Counters/Sequences are added using a UTIL menu utility (util/g/2)
  - Enter sequence name (lower case): <sequence name>
  - Enter sequence start number: 1
  - Enter prefix for format output: <none>
  - Do you want to suppress leading zeros in format output (y/n): y
  - Enter type (S/U): S
  - Confirm (y/n): y
Agenda

What Is EDI? EDItEUR?
EDIFACT?
What Does EDI Look Like?
How Is EDI Used in Aleph?
Configuring EDI in Aleph

Aleph’s EDI Directories
Troubleshooting EDI Problems
Re-running EDI Processes
Resources
Aleph’s EDI Directories

• Logs for basic job logs (edi-09, edi-10, edi-11, and edi-12) are found in $alephe_scratch (shortcut ‘aes’)

• All other EDI-related files are located in directories under $data_root of the XXX50 (ADM) Library (shortcut ‘dr’)
<table>
<thead>
<tr>
<th>Outgoing EDI Process</th>
</tr>
</thead>
<tbody>
<tr>
<td>XML → EDI → Sent via FTP</td>
</tr>
</tbody>
</table>
### Outgoing EDI Directories

- `..//xxx50
  edi/

  out/  
  edi-11 -> xml_processed/
  xml_rejected/ *
  edi_outgoing/
  edi_sent/ *

- These 4 directories are all managed by *edi-11*

* These directories include processing logs
## Incoming EDI Process

EDI → XML → Loaded into Aleph
Incoming EDI Directories

- ../xxx50
  edi/

  in/ 
edi-09 -> edi/incoming
  edi/processed *
edi/rejected *

  xml/incoming
  xml/processed *

- edi-10

-Incoming files are manually placed in the edi/incoming directory

* These directories include processing logs
Other Directories Associated with Outgoing EDI Messages

- Outgoing Aleph Orders and Claims, destined for EDI handling, are found in:
  ..///xxx50/print/edi

- Outgoing ftp logs are found in:
  ..///xxx50/scratch
Agenda

What Is EDI? EDItEUR?
EDIFACT?
What Does EDI Look Like?
How Is EDI Used in Aleph?
Configuring EDI in Aleph
Aleph’s EDI Directories
Troubleshooting EDI Problems
Re-running EDI Processes
Resources
Troubleshooting EDI Problems

- Outgoing problems
  - Examine the *edi-11* log in `$alephe_scratch`
  - Check the ftp log in `xxx50 $data_scratch`
  - Step through the logs in the `./edi/out` directories
    - `xml_processed`
    - `xml_rejected`
    - `edi_sent`
# Troubleshooting EDI Problems

- Outgoing EDI, continued
  - The XML-rendered file is especially useful. It includes everything Aleph needs to generate the outgoing message:
    - All ftp information
    - EDI codes for both the sending library and the vendor
    - All of the content data for the Order or Claim
Troubleshooting EDI Problems

- Incoming EDI
  - Remember, all incoming EDI files must be manually loaded into the ..edi/in/edi_incoming directory
  - *edi-09* renders the EDItEUR files into XML
    - Confirm that *edi-09* ran successfully by checking the log in *salephe_scratch*
    - Check the log in ..edi/in/edi_processed (or edi_rejected) directory
    - Check if the xml-rendered file has been created in ..edi/in/xml_incoming
Troubleshooting EDI Problems

• Incoming EDI, continued
  • edi-10 loads the XML-rendered file into Aleph
    • Confirm that edi-10 ran successfully by checking the log in $salephe_scratch
    • Check the log in ../edi/in/xml_processed
    • Check the EDI Load Log using the Acquisitions client for problems associated with the content of the incoming messages
  • Beginning in Aleph v.22, edi-12 is available for ‘Previewing’ the load of the invoice into Aleph. Run it after edi-09, and before edi-10.
Agenda

What Is EDI? EDItEUR?
EDIFACT?
What Does EDI Look Like?
How Is EDI Used in Aleph?
Configuring EDI in Aleph
Aleph’s EDI Directories
Troubleshooting EDI Problems
Re-running EDI Processes
Resources
Re-running EDI Processes

- The method for re-running services depends on the nature of the original problem.
- Re-running *edi-11* (outgoing EDI)
  - Most problems are resolved during se-up and testing.
  - Most operation problems are ftp issues. Once the ftp issue is resolved, the XML file can be moved from ..edi/out/xml-rejected back to the ..print/edi directory and re-processed by *edi-11*. The exception is if any of the ftp credentials need to be changed.
## Re-running EDI Processes

- Re-running *edi-09* (incoming EDI, step 1)
  - *edi-09* doesn’t update anything, so it can always be re-run.
  - The most common problems are errors in EDI Codes or EDI Code Types.
  - After resolving the problem, move the EDI file from `./edi/in/edi_rejected` back to the `./edi/in/edi_incoming` directory and re-run *edi-09*
  - Some EDI files that end up in edi_rejected are malformed and need to be corrected by the vendor. Check with Aleph Support.
Re-running EDI Processes

- Re-running *edi-10* (incoming EDI, step 2)
  - ‘Protocol’ problems with *edi-10* are uncommon. Most checking and verification is done in the previous step – *edi-09*.
  - Starting in Aleph v.22, *edi-12* is available to preview the running of *edi-10*.
  - Problems with order linkage and accounting issues are more common (both errors (E) and warnings (W)). Check the EDI Load Log after running *edi-10*.
  - If necessary, an Invoice created via EDI in Aleph can always be deleted online and reprocessed. The easiest way is to move the XML-rendered file from ../edi/in/xml_processed back to the ../edi/in/xml_incoming directory & re-running *edi-10*. 

ExLibris
Agenda

- What Is EDI? EDI\textsuperscript{EUR}\textsuperscript{FACT}?
- What Does EDI Look Like?
- How Is EDI Used in Aleph?
- Configuring EDI in Aleph
- Aleph’s EDI Directories
- Troubleshooting EDI Problems
- Rerunning EDI Processes

Resources
## Resources

- Aleph Staff User’s Guide – Acquisitions, Chapter 6 – EDI
- Aleph System Librarian’s Guide – Acquisitions – Setting Up Acquisitions for EDI
- Incoming EDI Power Point presentation (Doc Portal – Aleph/Support/How to from Support)
- SalesForce Article #1678: EDI: Map of EDItEUR messages sent by ALEPH and sent to Aleph
Thank You

Any last questions?