Primo Administration:

1. Normalization Template and Delivery Mapping Tables

1.1 Primo Administration: Normalization and Delivery Template Mapping Tables

Notes:

Hello, and welcome to this session on normalization and delivery template mapping tables.
1.2 Agenda

Notes:

First, we'll discuss what normalization mapping tables are, and how they relate to the normalization rules. We'll also look closer at a few of these mapping tables, and see how they can be edited and created. Then we'll focus on the Delivery Templates mapping table - what it is, how it contributes to delivery, and how it can be edited.

1.3 Normalization Mapping Tables
Notes:

Normalization mapping tables

1.4 Getting to the normalization mapping tables

Notes:

To see the normalization mapping tables in the Primo Back Office, we select Ongoing Configuration Wizards > Pipe Configuration Wizard > Normalization Mapping Tables.

We can also get to these tables by going to General > Mapping Tables in the navigation bar at the top of the screen, then selecting the Normalization Sub System.
Pipe Configuration Wizard (Slide Layer)

Normalization Mapping Tables (Slide Layer)
1.5 Normalization mapping tables

Notes:

Normalization mapping tables are used during the normalization process to translate multiple values from the source record to multiple values in Primo.

When the original source records go through the normalization process, most of the fields are mapped directly by the normalization rules. However, there are some fields that are sent to the normalization mapping tables first.
Normalization Flow (Slide Layer)

**1.6 Normalization mapping tables**

[Diagram showing the normalization process flow and normalization mapping tables]

[Table showing normalization mapping tables with columns for Table Name, Field Name, Description, and Last Updated]
Notes:

Some of the normalization mapping tables are used to identify values in the leader, 007 and 008 fields in different forms of MARC data to determine genre and resource type.

Other mapping tables are used to map institution and library codes so that the full names of the institutions and libraries can display correctly.

Today we're going to take a closer look at the ILS Library Codes table, and see how it works.
1.7 How normalization mapping tables work

Notes:

Let's view the ILS Library Codes table.

At the top, we can see which institution this table belongs to - in our case we're in the TRAIN_ALMA institution. We can also go to different mapping table sub systems, different mapping tables, and we can search the values in this table.
The next section down contains the values of this mapping table. The first column contains the library code - in other words, this is the code that is used in the source system. The next column is the Primo Code - the code that we map the source code to.

We're going to take a look at an example that uses the MAIN = TRAIN_ALMA_MAIN mapping in a few minutes, but to understand how this mapping is invoked, we have to go back to the normalization rules.

Right now we're looking at the set of normalization rules for the Alma data, and we're in the library level availability field in the display section.

Let's scroll down to the second rule in the group. The source for this part of the rule is the MARC AVA subfield b. We're taking that value, and using the ILS Library Codes mapping table to interpret that code, and then we're adding $$L to the beginning of the string.

When we look at a PNX record and its source record, we can see that this rule takes the AVA subfield b, which is MAIN in the source record, and normalizes it to $$LTRAIN_ALMA_MAIN in the display availability section in the PNX record.

The remaining step in interpreting the Primo Code happens in the Institution Wizard, in the Libraries section. From here, we can relate the Primo Library Code, TRAIN_ALMA_MAIN, to display the Primo Library Name, 'Main Library'.

Since the library codes are maintained here, it's not possible edit the ILS Library Codes mapping table directly, but it is possible to edit the other normalization mapping tables.
ILS Library codes (Slide Layer)

Norm rules (Slide Layer)
Rule 2 (Slide Layer)

PNX and source record (Slide Layer)
1.8 Editing normalization mapping tables

Notes:

Back in the normalization mapping tables, we can click 'edit' to edit any of the mapping tables.

When we first go into a mapping table, it looks like we cannot edit it - but we can. In order to start editing, we click on the customize button.
After we click the button, the rows become editable.

It’s also possible to add new mappings by scrolling down, adding the new values here and clicking create.

If more significant changes to the table are needed, it’s possible to export the table to excel, change the values in the excel spreadsheet, then import the excel file back into the mapping table.

After making changes, we would save the table, then go back to the top of the screen and select Deploy > Deploy All in the navigation bar.

In the Deploy Screen, we would check the All Codes and Mapping Tables box, then click ‘Deploy’.

**Edit alma type (Slide Layer)**
Customized (Slide Layer)

Scroll down (Slide Layer)
Navigate to deploy all (Slide Layer)

Deploy menu (Slide Layer)
Highlight all mapping (Slide Layer)

1.9 Creating new normalization mapping tables

Notes:

Let's return to the normalization mapping tables.

If we scroll down, we can see that it's also possible to create a new mapping table if needed.
1.11 Getting to the delivery templates mapping table

Notes:

To see the delivery templates mapping tables in the Primo Back Office, we select Advanced Configuration Wizards > All Mapping Tables.

We can also get to these tables by going to General > Mapping Tables in the navigation bar at the top of the screen, then selecting the Delivery Sub System.

The Templates table is here in the list.
All mapping tables (Slide Layer)

Mapping tables (Slide Layer)
Navigation menu (Slide Layer)

Subsystem (Slide Layer)
### 1.12 Delivery templates mapping table

<table>
<thead>
<tr>
<th>Module Name</th>
<th>Code</th>
<th>Description</th>
<th>System ID</th>
<th>System Name</th>
<th>Primo Front End</th>
<th>Primo Front End</th>
<th>Primo Front End</th>
</tr>
</thead>
<tbody>
<tr>
<td>SoftLink: Configure</td>
<td>PNX 100</td>
<td>Create access to list in the PNX</td>
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<tr>
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<td>PNX 100</td>
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</tr>
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<td>Make a Timeline</td>
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<td>PNX 100</td>
</tr>
</tbody>
</table>

**Notes:**

When we click edit, we can see the contents of the templates mapping table.

The templates mapping table is used to form URLs in the Primo Front End that link into different systems. The code in the first column is used as a placeholder in the PNX data, and the template code instructs the system on how to interpret the data and form the link into the system.
For example, these lines form links that are used to send information to various link resolvers. These are used to form links that go into WorldCat and Amazon. And these links go to Rosetta, and so on.

**Template mappings (Slide Layer)**

1.13 How the templates mapping table works
Notes:

Notice that most of the values in the Template Code column start with a base - for example, here we have {{alma_base}}. The alma base refers to the Base URL for Alma that was entered in the Institution Wizard. There are other bases indicated here that rely on the values in the institution as well - the SFX base and the ILS base, are a few more examples.

And when I mouse over one of Alma template codes, I can see the full contents. Many of these links rely on various fields in the PNX - in this case we're using fields that are in the addata section.

Scrolling down the page, we can see the full URL for the link we use to link to Amazon. Let's take a closer look.

Here we have the template code for amazon_uc. We have the base URL, then we have a placeholder in the template - addata/isbn. This placeholder will get filled in with the ISBN in the addata PNX section, and the completed URL will look like this.

Now let's see where the code 'amazon_uc‘ appears in the normalization rules. For that, we go to the normalization rule set for our Alma data, and look at the Link to Union Catalog field in the Links section.

Notice that for every record with an 020 subfield a (in other words, any record with an isbn), we are writing a constant of $$T - amazon_uc $$E - amazon.

Let's look at a PNX record after this normalization was applied. We can see the string here in the links section. When this record is presented in the Front End, the $$T refers us back to the templates mapping table, and uses the link in the template code after retrieving the isbn in the addata section.
SFX base (Slide Layer)

Full SFX URL (Slide Layer)
Amazon (Slide Layer)

How the templates mapping table works

Amazon template code (Slide Layer)

How the templates mapping table works

**Template Code: amazon_uc**

http://www.amazon.com/gp/product/{{addata/isbn}}

**Placeholder in template**

{{addata/isbn}}

**Completed URL**

http://www.amazon.com/gp/product/0312382375
Normalization rule set (Slide Layer)

PNX (Slide Layer)
1.14 Editing the templates mapping table

Notes:

Using the codes in the PNX instead of writing out the full links allows us to change the format of the link in the template code column and update the links in the Front End very quickly.

For example, if Amazon changed their base URL, we would only need to update the value in the Template Code column, save the table and deploy it. The links in the Front End would immediately start using the new base URL. If the full link was written in the PNX, we would have had to update the normalization rules, renormalize the data, and then wait for indexing to occur before the links were changed.
1.15 Creating a new entry

Notes:

It's also possible to create a new entry in the templates mapping table. For example, let's say that we want to create links for all of our records with ISBNs to go into Google Books.

First, we would want to determine how the Google Books link needs to be structured. Then, we would replace the ISBN portion of the URL with the placeholder. Now that we have the value that will be used in the template code...
column, let's go back to the templates table and scroll down to the bottom of the page.

Here we're able to create a new mapping row.

First we would enter in a code - in this case, I'll use google_books. It needs to be all one string with no spaces. We'll use this code in the normalization rules when we want to invoke the template link. Next we enter in our template code. We can type in a description, then click create.

In order to use this template we'd need to set up a normalization rule, refer to the code using the $$T, then configure the View Wizard to display the new link.

---

**Google construct (Slide Layer)**

Creating a new entry

**Google Books sample link**


**Replace ISBN in template link**

Templates mapping table (Slide Layer)

Scroll down (Slide Layer)
Enter code (Slide Layer)

Enter template code (Slide Layer)
1.16 Summary

Normalization Mapping Tables

- Maps multiple values in the source system to multiple values in Primo
- Used during normalization

Delivery Templates Mapping Table

- Used to form URLs that link into ILS, link resolvers, etc.
- Allows editing of the link without having to update the PNX

Notes:

To summarize, we saw how normalization mapping tables map values from a source system into values in Primo. We saw how the mapping tables are used during normalization, and how to edit and add to these tables.

We also saw how the delivery templates mapping table is used to form URLs that link into the ILS, link resolvers, and third party web sites. And we learned that having the templates mapping table allows us to update links in the
Front End by editing the URL in the table without having to update the PNX.

### 1.17 Session Review and Quiz

**Notes:**

Session Review and Quiz
1.18 Session Review

**Notes:**

In this session we covered what the normalization and delivery template mapping tables are, how these mapping tables work, and how to edit these mapping tables.

After the brief quiz that begins on the next page, please complete the exercise that is provided in the Knowledge Center where you launched this training. Please refer to the Recommended Articles section for additional information.

After finishing the exercise, you can continue on to the next training session in this series.

1.19 Question 1

*(Multiple Choice, 10 points, 1 attempt permitted)*
Feedback when correct:

The Normalization Mapping tables allow us to use the normalization rules to translate multiple values from the source record to multiple values in Primo.

Feedback when incorrect:

The Normalization Mapping tables allow us to use the normalization rules to translate multiple values from the source record to multiple values in Primo.

Notes:
**Correct (Slide Layer)**

![Quiz: Normalization and Template Mapping Tables](image)

Please select the correct response. The Normalization Mapping tables allow us to:

- Use the normalization rules to translate multiple values from the source record to multiple values in Primo.
- Determine which fields will display in the PNX.
- Determine which fields are used for search in the PNX.
- Enrich the LCC fields so that just the call number.
- Display multiple languages.

![Correct](image)

**Incorrect (Slide Layer)**

![Quiz: Normalization and Template Mapping Tables](image)

Please select the correct response. The Normalization Mapping tables allow us to:

- Use the normalization rules to translate multiple values from the source record to multiple values in Primo.
- Determine which fields will display in the PNX.
- Determine which fields are used for search in the PNX.
- Enrich the LCC fields so that just the call number.
- Display multiple languages.

![Incorrect](image)
1.20 Question 2

(Multiple Response, 10 points, 1 attempt permitted)

**Quiz: Normalization and Template Mapping Tables**

Please select the best responses. Select all that apply. The Templates mapping table allows us to:

- ✔ Form URLs in the Primo Front End that link into different systems
- ✔ Use placeholders to call on other data in the PNX
- ✔ Update base URLs without renormalizing the source data
- ❌ Update base URLs, but the data from the source must be renormalized
- ❌ Create new mapping tables based on the template

<table>
<thead>
<tr>
<th>Correct</th>
<th>Choice</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Form URLs in the Primo Front End that link into different systems</td>
</tr>
<tr>
<td>X</td>
<td>Use placeholders to call on other data in the PNX</td>
</tr>
<tr>
<td>X</td>
<td>Update base URLs without renormalizing the source data</td>
</tr>
<tr>
<td></td>
<td>Update base URLs, but the data from the source must be renormalized</td>
</tr>
<tr>
<td></td>
<td>Create new mapping tables based on the template</td>
</tr>
</tbody>
</table>

**Feedback when correct:**

The Templates mapping table allows us to form URLs in the Primo Front End that link into different systems, use placeholders to call on other data in the PNX, and update base URLs without renormalizing the source data.

**Feedback when incorrect:**
The Templates mapping table allows us to form URLs in the Primo Front End that link into different systems, use placeholders to call on other data in the PNX, and update base URLs without renormalizing the source data.

**Correct (Slide Layer)**

![Correct (Slide Layer)](image1.png)

**Incorrect (Slide Layer)**

![Incorrect (Slide Layer)](image2.png)
1.21 Question 3

(True/False, 10 points, 1 attempt permitted)

<table>
<thead>
<tr>
<th>Correct</th>
<th>Choice</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>True</td>
</tr>
<tr>
<td>X</td>
<td>False</td>
</tr>
</tbody>
</table>

Feedback when correct:
Unlike most mapping tables, ILS Library codes are edited in the Institution Wizard, in the Libraries section.

Feedback when incorrect:
Unlike most mapping tables, ILS Library codes are edited in the Institution Wizard, in the Libraries section.

Notes:
Correct (Slide Layer)

```
**Quiz: Normalization and Template Mapping Tables**

? ILS Library codes are edited in the ILS Library Codes mapping table.

- [ ] True
- [x] False

Unlike most mapping tables, ILS Library codes are edited in the Institution Wizard, in the Libraries section.
```

Incorrect (Slide Layer)

```
**Quiz: Normalization and Template Mapping Tables**

? ILS Library codes are edited in the ILS Library Codes mapping table.

- [ ] True
- [x] False

Unlike most mapping tables, ILS Library codes are edited in the Institution Wizard, in the Libraries section.
```

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1.22 Thank You!

Thank you for joining this session!

Notes:

1.23 About this Training

Notes:
1 (Slide Layer)

### About this Training

This presentation assumes that you have viewed these training sessions:
- Primo Getting Started Sessions
- Primo Back Office Overview
- Primo Administrative Structure
- Primo Publishing Platform
- Primo Pipes Configuration
- Primo Normalized XML
- Normalization Rules Overview
- Normalization Rules Configuration

2 (Slide Layer)

### About this Training

By the end of this training session, you will know:
- What the normalization and delivery template mapping tables are
- How these mapping tables work
- How to edit these mapping tables

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