

访问服务

参考 [Alma](#) 和 [SFX](#) 下的文档，其中提供用于启用全文链接的链接参数的详细内容。

[Primo VE 管理认证：传递（8分钟）](#)

显示条件规则

Alma 链接解析器（和 Primo 查看）支持决定电子资源库对终端用户显示的条件规则。在共享区知识库中定义显示条件规则，且包含例如传入 OpenURL 包含文章级别元数据元素的要求。条件规则对于报纸电子资源库和例如 CCC Get It Now 的电子资源库可用。

在激活或编辑电子资源库之后，您可以查看显示的条件信息和规则。请注意，不能编辑或本地创建显示条件规则。要查看该信息，在电子服务编辑器页面选择链接选项卡；在可用性规则旁，选择服务显示条件规则链接（报纸电子资源库）或服务过滤条件规则链接（CCC Get It Now 电子资源库）。

Electronic Service Editor

Activation Service Description Linking Portfolios Notes History

General Linking Information

Parser OAD01:oad01

Parser (override)

Parser parameters -

Parser parameters (override)

URL type Dynamic URL Parser Parameters

Linking level Article DOI

Service is free? Free

Crossref supported Yes

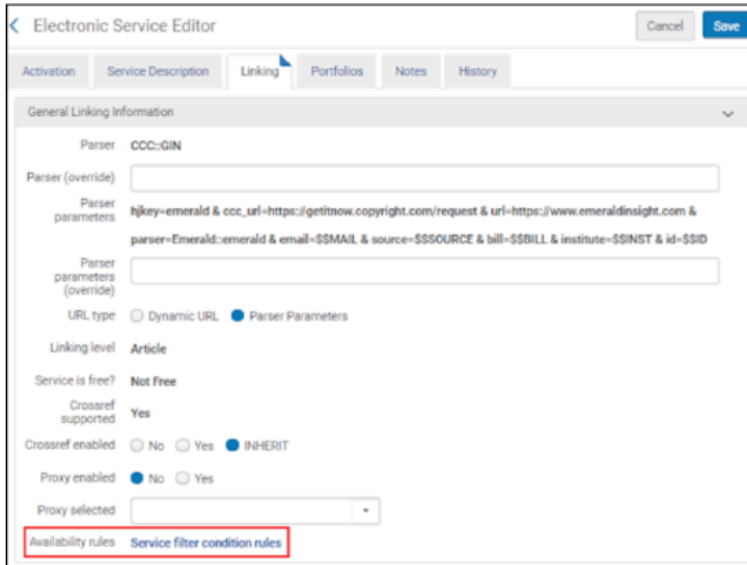
Crossref enabled No Yes INHERIT

Proxy enabled No Yes

Proxy selected

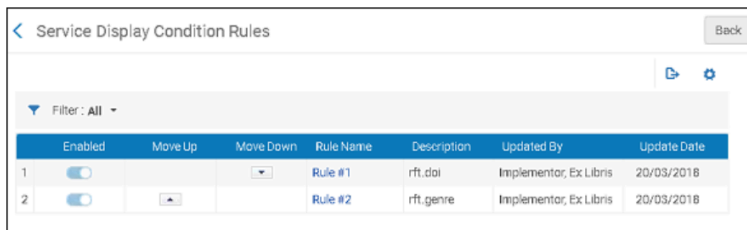
Availability rules [Service display condition rules](#)

服务显示条件规则链接

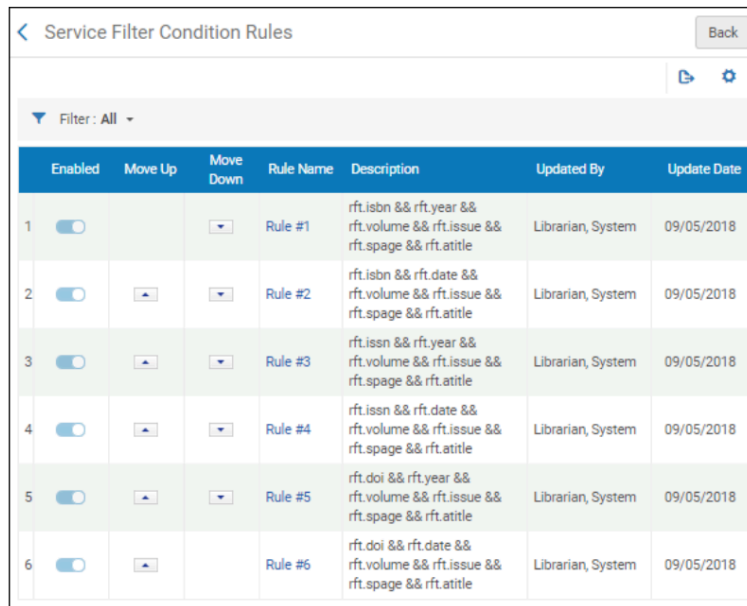


服务过滤条件规则链接

这打开服务显示条件规则页面（报纸电子资源库）或服务过滤条件规则链接（CCC Get It Now电子资源库）。



报纸电子资源库的服务显示条件规则



CCC Get It Now电子资源库的服务过滤条件规则页面

默认情况下，在规则名称列的规则之间使用OR逻辑。这意味着当满足这些例子中的任意规则时，使用Alma链接解析器或Primo获取时显示报纸电子资源库或CCC Get It Now电子资源库。如果所有规则都不满足，则Alma链接解析器或Primo查看不显示这些电子资源库。

要查看每条规则的详情，在规则名称栏选项规则编号链接。有关这些规则的示例见下文。

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Edit rule

Name **Rule #1**

Description **rft.doi**

Created By **Implementor, Ex Libris** Created On **20/03/2018**

Updated By **Implementor, Ex Libris** Updated On **20/03/2018**

Input Parameters

Name	Operator	Value
1 rft.doi	Is Not Empty	-

Output Parameters

IsDisplay **True**

报纸电子资源库的规则详情示例

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Edit rule

Name **Rule #1**

Description **rft.isbn && rft.year && rft.volume && rft.issue && rft.spage && rft.atitle**

Created By **-**

Created On **09/05/2018**

Updated By **Librarian, System**

Updated On **09/05/2018**

Input Parameters

Name	Operator	Value
1 rft.isbn	Is Not Empty	-
2 rft.year	Is Not Empty	-
3 rft.volume	Is Not Empty	-
4 rft.issue	Is Not Empty	-
5 rft.spage	Is Not Empty	-
6 rft.atitle	Is Not Empty	-

Output Parameters

IsDisplay

CCC Get It Now 电子资源库的规则详情示例

为电子资源库和资源库列表配置动态URL

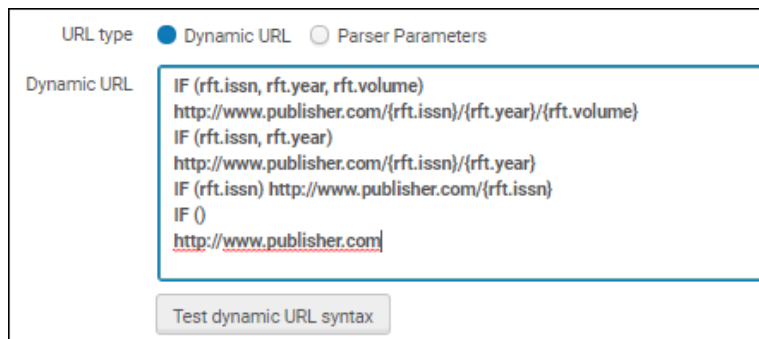
要处理电子资源，您必须具有以下角色：

- 电子馆藏操作员

- 电子馆藏操作员扩展（删除操作所需）
- 仓储经理

除了为本地电子资源库和资源库列表管理静态链接，您可以为本地电子资源库和资源库列表创建复杂的动态URL，并动态嵌入OpenURL元数据信息。此外，您还可以使用动态URL来覆盖共享区知识库提供的链接。

电子服务编辑器和电子资源库列表编辑器页面使您能够分别定义用于为服务或资源库列表选择链接URL的条件列表。



动态URL链接信息条件示例

使用动态URL时，每个条件都必须从一个IF语句开始，用于检查ContextObject和OpenURL参数的存在。如果对于从列表顶部开始的条件存在所有参数，则该条件的指定URL用于链接。否则，将检查下一个条件。要抓取内容（如果所有其他检查失败，用于匹配），使用IF () <url>。

例如：

```
IF (rft.issn, rft.year, rft.volume)
http://www.publisher.com/{rft.issn}/{rft.year}/{rft.volume}
IF (rft.issn, rft.year)
http://www.publisher.com/{rft.issn}/{rft.year}
IF (rft.issn) http://www.publisher.com/{rft.issn}
IF ()
http://www.publisher.com
```

如果在上述示例中满足第一个条件，则生成的动态URL可能如下所示：

```
http://www.publisher.com/1364-0321/2010/2
```

除了rft.year，您还可以使用rft.month，rft.day和rft.date属性。

测试动态URL语法可以验证您的条件语法。

有关为电子资源库配置动态URL的详细信息，见[电子资源库的动态URL](#)视频（2:33分钟）。

有关更多信息，见[URL模板的常用OpenURL属性](#)。

URL功能

此外，动态URL可以包括以下功能来操纵指定参数中返回的值：

- **SUBSTR**（字符串，起始位置，长度） - 根据字符串的起始位置和长度，返回指定字符串的子字符串。如果

{rft.date}包含**2010-08-01**，并且从字符串开头指定前四个字符，如下所示：

```
http://www.publisher.com/{rft.issn}/SUBSTR({rft.date},0,4)
```

Alma使用下列URL:

```
http://www.publisher.com/1824-6321/2010
```

- **REPLACE** (字符串, 检索, 替换) - 根据检索和替换文本替换指定字符串中的文本。如果{rft.isbn}包含破折号 (例如, **978-1-285-13563-2**)，并且未指定替换文本，如下所示：

```
IF (rft.isbn)
```

```
http://www.publisher.com/REPLACE({rft.isbn},-, "")
```

Alma使用下列URL:

```
http://www.publisher.com/9781285135632
```

Note

要替换特殊字符，请使用替换字符串的编码值。

例如：

```
REPLACE({rft.isbn},%3F,"")
```

而不是

```
REPLACE({rft.isbn},?, "")
```

-
- **URLENCODE** (字符串) - 在指定的字符串中编码特殊字符。如果{rft.atitle}包含题名**The Grapes of Wrath**，并且请求编码，如下所示：

```
http://www.publisher.com/URLENCODE({rft.atitle})
```

Alma使用下列URL:

```
http://www.publisher.com/The%20Grapes%20of%20Wrath
```

电子资源库激活后可以发布至Primo。例外的是数据库类型的电子资源库，一旦它们被URL和未屏蔽的相关书目记录定义后就可以被发布。

Note

您可以将资源库列表定义为独立实体或电子资源库的一部分。[添加本地电子资源库](#)中提供了添加电子资源库及其相关资源库列表的步骤。在[管理本地资源库列表](#)中提供了添加独立于添加电子资源库的资源库列表的过程。

解析器代理

为了设置网络挂接定义文档, 你必须是:

- 通用系统管理员

要使校外用户能够访问不同供应商站点的全文服务, 您必须定义代理服务器, 用于对这些用户进行身份验证。

Alma链接解析器响应传入的OpenURL，并通过自动在解析的URL中包含其他代理信息将其更改为电子链接。一些机构使用单个代理服务器，在这种情况下应定义一个代理配置文件如果机构使用多个代理服务器，则应为每个代理服务器定义代理配置文件。然后，您必须为每个电子资源库、服务或资源库列表定义相关代理。

Note

通过网络区分发电子资源的访问到成员时，代理必须要在机构区而不是网络区中管理。机构区代理会覆盖网络区资源库中定义的任何代理。

见以下其他代理信息：

- [链接信息选项卡选项](#) - 描述电子服务编辑器的链接信息选项卡选项
- [电子资源库编辑器选项卡和字段](#) - 描述电子资源库编辑器的其他信息选项卡选项
- [电子资源库列表编辑器页面](#) - 描述电子资源库列表编辑器的链接信息选项卡选项

代理关系

下表介绍电子资源库、服务和资源库列表的代理启用设置之间的关系。资源库列表从其所连接的服务级别继承启用代理的设置。因此，仅在您希望与服务级别设置不同时设置资源库列表级别的代理启用设置（这种情况下，您需要将服务级别的所选代理字段留空）。启用的电子资源库代理设置不会由资源库列表继承。

代理关系

代理启用 电子资源 库级别	服务级 别启用的 代理	资源库列表 级别启用的 代理	启用的代理设置结果
N	N	N	重定向到资源
N	N	Y	重定向到代理登录
N	Y	N	重定向到代理登录 资源库列表继承服务设置
N	Y	Y	电子资源库不继承服务或资源库列表的代理设置。如果在服务级别选择代理配置文件，资源库列表继承服务级别的代理设置。要设置资源库列表级别的代理，将服务级别设置的所选代理字段留空。
Y	N	N	重定向到资源 电子资源库代理不会由服务或资源库列表级别继承
Y	N	Y	重定向到代理登录
Y	Y	N	重定向到代理登录 资源库列表继承服务设置
Y	Y	Y	重定向到代理登录

Note

- 要对资源库列表应用‘组设置’代理，代理需要在电子服务的‘组设置’选项卡中应用。
 - 要对电子资源库应用‘组设置’代理，代理需要在电子资源库编辑器的‘组设置’选项卡中应用。
-

配置代理

要配置解析器代理类型的集成配置文件：

1. 在集成配置文件列表页面（[配置菜单](#) > [通用](#) > [外部系统](#) > [集成配置文件](#)），点击**添加集成文件**。显示集成配置文件向导的第一页。
2. 集成类型选择解析器代理。
3. 输入要定义的配置文件的名称（代码），并可选择输入描述。
4. 如果要将要定义的配置文件设置为默认代理定义配置文件，选择**默认**。（如果您以前将另一个配置文件定义为默认配置文件，在该配置文件中选择默认之前，清除其他配置文件中的默认选项）。如果代理设置为默认，并且操作（见下文）设置为始终，则此代理用于解析任何资源，即使资源没有设置**ProxyEnabled=Yes**。
5. 选择下一步。显示向导第二页。



The screenshot shows a form titled "PROXY DEFINITIONS". It contains four fields: "Proxy server type" with a dropdown menu set to "EZProxy", "Proxy url" with an empty text input field, "Proxy ip" with an empty text input field, and "Use Proxy" with a dropdown menu set to "Always".

解析器代理集成配置文件 - 步骤 2（代理定义）

6. 选择要为该配置文件配置的代理服务器类型。
-

Note

没有选项可以输入多个IP地址。“代理IP”字段应保存代理服务器IP地址而不是允许的IP范围。以防OpenUrl请求从此IP地址接收，代理不会添加到目标URL，这会防止循环。

以下选项可用：

- **Biblio-Pam** - 该服务器代理使用以下URL结构：

结构的<Biblio-PAM URL>部分为来自Biblio-PAM的供应商提供的URL。

<shortened target URL>为不含有http://或https://的目标URL。

- https://<Biblio-PAM URL>/http/<shortened target URL>

- `https://<Biblio-PAM URL>/https/<shortened target URL>`

- **EZProxy** - 该选项使用以下URL结构，其中\$@为目标URL的占位符：

- `https://www.ezproxy.unibo.it/login?`

有关更多信息，见[EZProxy URL 数据库](#)。

- **HAN** - 该选项使用以下URL结构：

- `http://<HAN server>/hanapi/?hash=<HASH>`

对**Proxy url**参数输入`http://<HAN server>`部分。

URL结构剩余的部分由Alma组建，并与在**Proxy url**参数中输入的部分结合。

对于HAN代理服务器类型，您需要输入**Salt**参数。**Salt**参数为可以含有任意字母数字值的自由文本字段。输入的值必须与您的HAN账户中的HAN代理服务器配置中的salt值匹配。在您的HAN账户中创建HAN salt值时，复制到Alma中的**Salt**值。

- **LIBProxy**

- **OpenAthens Redirector** - 该选项使用以下URL结构：

- `https://<OpenAthens Redirector URL>?url=<encoded target URL>`

结构的<OpenAthens Redirector URL>部分为来自OpenAthens的供应商提供的URL。

对**Proxy url**参数输入`https://go.openathens.net/redirector/<your domain>`。

URL的?url=部分由Alma添加。

<encoded target URL>为编码表中的目标URL。

请注意，即使Redirector不是代理服务器，可以使用Alma代理服务器配置。

- **WAM**

请注意，您应该忽略代理URL开头的0-。

- **RemoteXS**

使用RemoteXS代理的机构能够配置Alma的链接解析器以与该代理无缝集成。

7. 输入由供应商提供的代理URL（包括http://或https://）和代理IP地址。

8. 为使用代理选择以下值：

- **始终** - 代理用于任何解析。

如果选择此代理作为默认值，它将用于任何解析，即使资源（服务、资源库或资源库列表）设置为**EnableProxy=No**。

如果此代理未被选择为默认值，则用于设置为**EnableProxy=Yes**且选择了此代理的资源。

Note

该设置覆盖网络区的设置。

- 从不 – 即使为特定资源启用并选择了此代理，也不会用于解析。
- 选择性 – 此代理用于设置为 **EnableProxy=Yes** 且选择了此代理（这相当于为非默认代理选择始终）的资源。

即使选择此代理作为默认值，也必须明确添加到资源。

9. 选择保存。配置文件已保存。

Note

This page describes how to configure general electronic (HTTP) services including the URL template, sharing general electronic services in the community zone, configuring the order of electronic services, etc.

For links to all the main fulfillment documentation pages see [Fulfillment](#).

Configuring General Electronic Services

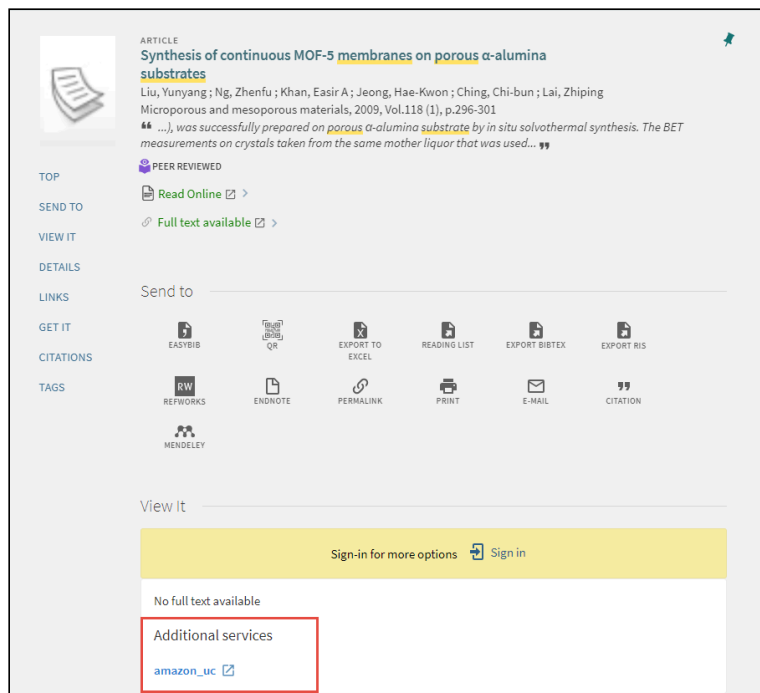
To configure general electronic services, you must have one of the following roles:

- General System Administrator
- Fulfillment Administrator

In addition to services found in your own collection (such as full text, requests, and so forth), Alma enables you to define general HTTP services (such as searches in ProQuest dissertations and Amazon.com, Ask a Librarian, and so forth) to present to patrons in the View It, Get It, and How to Get It sections on the record's full display page. Services that allow users to access or purchase the materials are considered delivery-related and will appear in the View It, Get It, and How to Get It sections on the record's full display page.

Note

To have these services appear in Leganto, see [Enabling General Electronic Services in Leganto](#).



Electronic Service Example (Primo View It)

In order to create a general electronic service, you must be familiar with the syntax of the service's URL, which includes any parameters that are required to query or access specific information from the service. The service's URL along with OpenURL context object attributes returned from Alma's link resolver are used to define the URL template, which Alma uses to create the service link that appears in View It and/or Get It.

In addition, you can configure the following display settings for general electronic services:

- Specify service order – see [Configuring General Electronic Services Order](#)
- Define display logic rules – see [Configuring Display Logic Rules](#)

You can also share your general electronic services in the Community Zone, and use general electronic services defined by other institutions. See [Sharing General Electronic Services in the Community Zone](#).

To add a general electronic service:

Note

It is recommended to use ExLibris' Unpaywall service in View It and not an externally used customer Unpaywall GES. This is because the open access in ExLibris' Unpaywall service is 100% available.

1. Open the General Electronic Services Configuration page (**Configuration Menu > Fulfillment > Discovery Interface Display Logic > General Electronic Services**).

General Electronic Services Back

Add Service 🔄 ⚙️

Active	Service Name	Service Code	Public Name	Service Description	Display Location	
<input checked="" type="checkbox"/>	Amazon	Amazon by ISBN	Search for this on Amazon	Links to Amazon by ISBN & ISSN	LINKS	⋮
<input checked="" type="checkbox"/>	ILLiad for Articles/Journals	ILLIAD-A	Request from Interlibrary Loan	ILLiad link for article and journals	LINKS	⋮
<input checked="" type="checkbox"/>	ILLiad for Books/Book Items	ILLIAD-B	Request from Interlibrary Loan	ILLiad link for books and book items	LINKS	⋮
<input checked="" type="checkbox"/>	ProQuest	ProQuest	ProQuest dissertation	ProQuest dissertation service	LINKS	⋮

General Electronic Services List (Alma-Primo)

Note

- The **Item Level** column is hidden by default; you can add it to the table by selecting the Manage Column Display icon above the table.
- The **Is this a Document Delivery/ILL Service** column is available only with Primo VE and Alma-Summon environments.

2. Select **Add Service**. The **Add Service** dialog box opens.

Add Service

Service Code *

Service Name *

Service Description

Public Name

Public Note

Is this a Document Delivery/ILL service? No Yes

Display Location * **Getit & How To Getit** ▼

URL Template *

Add Service Dialog Box

Note

Unless otherwise noted, all fields are supported in the following environments: Alma-Primo, Primo VE, and Alma-Summon.

3. Enter the following service information:

- **Service Code** – The internal code for the service.
- **Service Name** – The internal name used for the service.
- **Service Description** – The description of the service.
- **Public Name** – The label for the link that displays in View It and/or Get It.
- **Public Note** – The note or description of the service that is displayed below the link in the View It, How To GetIt and Links sections.
- **Is this a Document Delivery/ILL service** – Select **Yes** to indicate that this service is delivery-related and provides access to the resource. Select **No** to indicate that this service is not delivery-related and will appear only in the Links section.

Note

This field is not available in Alma-Primo environments.

- **Display Location** – Specify the section on a record's full display to which you want to display the GES link. The following table lists the available options per customer environment:

Note

The **Display Location** is only displayed if **Is this a Document Delivery/ILL service** is selected **Yes**. The **Display Location** is not displayed if **Is this a Document Delivery/ILL service** is selected **No**.

Alma-Primo	Primo VE and Alma-Summon
<ul style="list-style-type: none"> ▪ Getit ▪ Viewit ▪ Getit & Viewit ▪ None – Services appear in the record's full display under the Links section. 	<ul style="list-style-type: none"> ▪ Getit & How to Getit ▪ Viewit & How to Getit ▪ Getit, viewit, and How to Getit ▪ None – No services appear in the record's full display, including the Links section. <hr/> <p>Note</p> <p>The How to Get It section displays only when a record has no inventory. The How to Get It section is typically used for resource sharing and relevant ILL service links.</p> <hr/>

Note

- For Primo VE and Alma-Summon only, this field appears only when the **Is this a Document Delivery/ILL Service** field is set to **Yes**.
- The display of general electronic services is based on the service's availability rules that are defined with the Service Availability Rules tab, which appears while editing a general electronic service. For more details, see [step 5](#). See [Configuring Display Logic Rules](#) if you want to hide the general electronic service based on additional criteria (such as the existence of another type of service or the type of user).

- **URL Template** – The URL where the patron is redirected when the external service link is selected. The external service link is comprised of the base URL of the service, and any parameters that are required to query or access specific information from the service. It is formatted according to the syntax of the URL of the service. For more information, see [URL Template](#).
- **Item Level** – Select **Yes** to show the link next to each item that matches the input rules. Select **No** to show the link at the holding level.

Note

- This option displays only when the value of the **Display Location** field includes **GetIt**.
- To prevent potential performance issues, item level **General Electronic Services** cannot be used for the **If Exists** portion of Display Logic Rules.
- If you update an existing General Electronic Service and change the Item Level setting from No to Yes, the Display Logic Rules that were created with this service will no longer work and the label for the service changes and displays the suffix (not listed). You need to delete the previously created Display Logic Rule to remove the service from the drop-down list.

For more information, see [Item Level General Electronic Services](#).

4. Select **Add and Close**. The new service appears on the General Electronic Service page with the following row actions: **Remove** and **Edit**.
5. Edit the new row to configure additional service details.

The Service Details page appears.

The screenshot shows the 'Service Details' page for a service named 'ProQuest'. The page has a 'Cancel' and 'Save' button at the top right. The service is currently 'Inactive'. The 'Service Code' is 'ProQuest', 'Service Name' is 'ProQuest', and 'Service Description' is 'ProQuest dissertation service'. The 'Public Name' is 'ProQuest dissertation'. The 'Display Location' is set to 'None'. The 'URL Template' is 'http://gateway.proquest.com/openurl?res_dat=xri%3Aapqm&title=(rft.atitle)&rft_val_fmt=info%3Aofi%2Ffmt%3Akev%'. The 'Enable without login' option is set to 'No'. The 'Disable service' option is set to 'Never'.

Service Details Page (Service Details Tab)

6. To display this service to signed-in users only, select **No** in the **Enable without login** field.
7. To hide this service based on the availability of the physical resource in the institutional repository (does not apply to electronic collections or portfolios), select one of the following options for **Disable Service**:

Note

When a guest user or a user without a configured campus performs any of the campus-level disabling activities, Alma disables/hides the service based on a self-ownership check done at the institution level.

- **Never** – The service is never disabled.
- **When resource is owned by the campus** – The service is disabled when physical items for the resource are owned by the campus.
- **When resource is owned by the campus and available** – The service is disabled when physical items for the resource are owned by the campus and are available (that is, they are not involved in a process).
- **When resource is owned by the institution** – The service is disabled when there are physical items for the resource that are owned by the institution.
- **When resource is owned by the institution and available** – The service is disabled when there are physical items for the resource that are owned by the institution, are in place, and are in an open location. Note that if a physical location is set to **Unavailable** (see [Adding a Physical Location](#)) and this option is selected, the service is enabled. You may want to use this option when items in a certain location (such as a reading room) cannot be requested. Setting this location to **Unavailable** will enable the display of the service.

8. Select the **Service Availability Rules** tab.

The Service Availability Rules tab displays the rules that the system uses to determine whether a service should be hidden from the user. Each service has a default rule that is applied when none of the other rules apply. The **Default general electronic service rule** hides the service by default (**IsDisplay=False**). You can edit the default rule and add rules as needed.

Enabled	Move Up	Move Down	Rule Name	Description	Updated By	Update Date
<input checked="" type="checkbox"/>			isbn exists	-	Implementer, Ex Libris	2015/09/17
			Default general electronic services rule	Default general electronic services rule	Implementer, Ex Libris	2015/09/17

Service Availability Rules Tab

9. Add rules regarding the OpenURL context object attributes (which may be returned by Alma's link resolver during the user's search) to ensure that Alma has the necessary information to display the service.

Note

- The available attributes are standard OpenURL attributes. For more information, see [Commonly Used OpenURL Attributes for the URL Template](#).
 - The following item level attributes may be used when item level services are configured:
-

-
- material_type
 - item_policy - values are populated from the institution's Item Policy table. See [Configuring Item Policies](#).
 - process_type
 - base_status - values are **Item not in place** and **Item in place**.
- Adding parameters within a rule will cause the parameters to have an AND relationship with each other, meaning that all values must be true before the rule is considered true. For OR conditions, where only one value must be true, parameters should be entered separately in a new rule.
 - If multiple rules evaluate to true, the output parameter will be applied based on the first rule that is true.
 - It is **not** recommended to create GES rules based on rft.genre=unknown. You can create rules for specific genres instead, such as Article or Journal.
-

1. To add a new rule, select **Add Rule**. The Edit Rule page opens.

The screenshot shows the 'Edit rule' page with the following details:

- Page Header:** 'Edit rule' with 'Cancel' and 'Save' buttons.
- Edit rule Section:**
 - Name * (text input)
 - Description (text input)
 - Created By: Ex Libris
 - Created On: 2017/06/01
 - Updated By: Ex Libris
 - Updated On: 2017/06/01
- Input Parameters Section:**
 - + Add Parameter (button)
 - No records were found. (message)
- Output Parameters Section:**
 - IsDisplay * (dropdown menu) set to False

Edit Rule Page

2. In the **Edit Rule** section, enter the rule name (required) and description (optional).
3. In the Input Parameters section, select **Add Parameter**. The Add Parameter dialog box opens.

Edit Rule Page

4. Enter the following fields:

- **Name** – The name of the attribute in the OpenURL context object. For more information about these attributes, see [Commonly Used OpenURL Attributes for the URL Template](#).
- **Operator** – The comparison operator to use with this context object attribute.
- **Value** – An accepted value for this parameter. To match multiple values, create a separate rule for each value. Note that not all operators require a value.

5. Select **Add Parameter**. The parameter is added to the input parameter list.

6. In the **Output Parameters** section, set **IsDisplay** to **true**.

7. Select **Save**. The Service Availability Rules page displays the new rule.

10. Select **Save**. The General Electronic Services page displays the new service.

In a collaborative network, you can create general electronic services in the Network Zone and then distribute them to member institutions. The member institutions have view permission to the distributed records but are not able to edit or delete them. When the Network Zone general electronic service has been distributed, the local list will show either the distributed records only or both the distributed records and the previous local general electronic service records, depending on the configuration in the customer parameter, **network_ges_distribution_members_behavior**.

Shared	Active	Service Name	Service Code	Public Name	Service Description	Display Location	
	<input type="checkbox"/>	ProQuest	ProQuest	ProQuest dissertation	ProQuest dissertation service	LINKS	...
✓	<input type="checkbox"/>	ProQuest	ProQuest	ProQuest dissertation	ProQuest dissertation service	LINKS	...
✓	<input type="checkbox"/>	Test	Test	-	-	LINKS	...

General Electronic Services List for a Member Institution

For more information, see [Configuring Fulfillment Information in the Network Zone](#).

URL Template

The URL substitutes OpenURL fields that are enclosed in brackets ("{" and "}") with the relevant values. For example, the referring URL's ISBN is substituted into a URL containing: ...&isbn={rft.isbn}&...

For example, the URL for an Amazon search for a specific ISBN:

```
http://www.amazon.com/s/ref=nb_sb_ss_c_0_12?url=search-alias%3Dstripbooks&field-  
keywords={rft.isbn}
```

When connecting to a resource sharing broker, ensure that this field contains an attribute corresponding to the broker in use. For example, when using the OCLC broker:

```
http://xxx.worldcat.org/oclc/{rft.oclcnum}
```

ILLiad - Books/Book Items (based on your institution's base URL). For example:

```
http://libill.XXX.edu/illiad/  
illiad.dll?Action=10&Form=30&rft.genre={rft.genre}&rft.title={rft.btitle}&rft.stitle={rft.stitle}
```

ILLiad - Articles/Journals (based on your institution's base URL). For example:

```
http://libill.XXX.edu/illiad/  
illiad.dll?Action=10&Form=30&rft.genre={rft.genre}&rft.title={rft.title}&rft.stitle={rft.stitle}
```

ProQuest - Dissertation Service. For example:

```
http://gateway.proquest.com/  
openurl?res_dat=xri%3Apqm&title={rft.btitle}&rft_val_fmt=info%3Aofi%2Ffmt%3Akev%3Amtx%3Adisserta
```

The following values can be specified in the URL Template parameter between the curly brackets used for normalizing the ISBN, ISSN, eISBN, or eISSN:

- rft.normalized_isbn

This normalization removes the text after digits and the hyphen (-) and converts ISBN 10 to ISBN 13

- rft.normalized_issn

This normalization removes the text after digits and changes text to lower case.

- rft.normalized_Eisbn

This normalization removes the text after digits and the hyphen (-) and converts ISBN 10 to ISBN 13.

- rft.normalized_Eissn

This normalization removes the text after digits and changes text to lower case.

For more information regarding OpenURL, refer to the following:

- [Commonly Used OpenURL Attributes for the URL Template](#)

- <http://en.wikipedia.org/wiki/OpenURL>
- Specific vendor web sites for OpenURL details

Commonly Used OpenURL Attributes for the URL Template

The following table describes general categories by which the OpenURL attributes returned from Alma's link resolver are grouped.

OpenURL Attribute Categories

Category	Prefix	Description
Requester	req.	Information about the requesting entity, that is, the patron. Not used when creating service availability rules for general electronic services.
ReferringEntity	rfe.	Information about the referring entity, i.e. Primo. Not used when creating service availability rules for general electronic services.
Referent	rft.	Information about the requested item.
ServiceType	svc.	Whether a particular format of the Referent is available: "yes" or "no". For example, whether the requested target is available as an abstract or as full text. Multiple service types may be available.
Other	various	Other returned values are unused, unless noted below.

Note

Any attributes returned by the link resolver, that do not belong to any of the categories above (such as DC attributes), are unused and will not appear in the URL template. They should not be selected when creating an input parameter for a Service Availability Rule. For additional information about OpenURL attribute categories see the related [knowledge article](#).

The following are commonly returned attributes that can be used to create service availability rules. Some of these attributes are taken from the MARC 21 fields of the relevant records. For these attributes, the MARC 21 sources appear in the *MARC 21 Fields* column. Attributes that are not taken from MARC 21 fields are retrieved from various other sources, including CDI records, Primo, OpenURL, and other external sources.

Commonly Returned OpenURL Attributes from Alma's Link Resolver

Attribute	PNX Mapping	MARC 21 Fields	Description
req_id			The PDS handle (see Identify Patrons to Provide Relevant Services)
rft.advisor			Advisor, for a dissertation
rft.applcc			Application country code in ISO two-character format, for a patent. The country in which the patent application was main.
rft.appldate			Date of application for a patent

rft.applyear			Year of application for a patent
rft.artnum	addata/ artnum		Article number. Assigned by the publisher. A URL may be the only usable ID for an online article.
rft.assignee			Assignee, for a patent: "Smith, John J.", "IBM"
rft.atitle	addata/ atitle		Article or chapter title
rft.au	addata/ au	100 or 110 or 111	One author's full name: "Smith, Fred James Jr."
rft.aucorp	addata/ aucorp		Organization or corporation that created document: "Mellon Foundation"
rft.aufirst			First author's given name: "Fred James" May have spaces and punctuation.
rft.auinit	addata/ auinit		First author's first and middle initials
rft.auinit1	addata/ auinit1		First author's first initial
rft.auinitm	addata/ auinitm		First author's middle initial
rft.aulast	addata/ aulast		First author's last name: "Smith" May have spaces and punctuation.
rft.ausuffix	addata/ ausuffix		First author's name suffix: "Jr." etc.
rft.bici	addata/ bici		Book Item and Component Identifier (BICI code)
rft.btitle	addata/ btitle	For the LDR positions, see Fields that Identify the Bibliographic Material Type .	Book title, if the LDR material_type = BK. See rft.jtitle.
rft.cc			Publication country code, in ISO two-character format: "US". See co.
rft.chron			Enumeration or chronology not in standard format: "1st quarter". Where possible, use date. See ssn and quarter.
rft.co			Publication country: "United States". See cc.
rft.coden	addata/ coden	030 a	CODEN (alphanumeric code)
rft.date	addata/ date		Publication date. For a patent, this is the date that the patent was issued. Format is YYYY, YYYY-MM, or YYYY-MM-DD.
rft.day			Publication day
rft.dcContributor			Dublin Core contributor: person, organization, or service

rft.dcCreator			Dublin Core creator: person, organization, or service
rft.dcDescription			Dublin Core description: abstract, table of contents, graphical representation, or free text
rft.dcFormat			Dublin Core format: File format, physical medium, or dimensions, such as MIME type
rft.dclIdentifier			Dublin Core identifier: Unambiguous resource identifier
rft.dcLanguage			Dublin Core language: Resource language
rft.dcPublisher			Dublin Core publisher: person, organization, or service
rft.dcRelation			Dublin Core relation: A related resource
rft.dcRights			Dublin Core rights: Terms rights and access rights information
rft.dcSource			Dublin Core source: A related resource from which this resource was taken
rft.dcSubject			Dublin Core subject: keywords and classification codes
rft.dcTitle			Dublin Core title: Resource title
rft.dcType			Dublin Core type: nature and genre, such as described by DCMITYPE. For format, see dcFormat.
rft.degree			Degree issued, for a dissertation
rft.doi	addata/ doi		DOI (digital object identifier) field
rft.edition	display/ edition	250 a	Book edition, typically a phrase, with or without numbers: "First edition", "4th ed.".
rft.eisbn	addata/ eisbn	020 a if there is no 020 e and the record is not physical; otherwise, 020 e	International Standard Book Number for electronic version. May be multiple ISBN, separated by commas. May contain a hyphen. May or may not be distinct from rft.isbn.
rft.eissn	addata/ eissn	022 a if there is no 022 e and the record is not physical; otherwise, 022 e	International Standard Serial Number for electronic version. May be multiple ISSN, separated by commas. May contain a hyphen. May or may not be distinct from rft.issn.
rft.epage	addata/ epage		End page of article/chapter within volume/issue.
rft.format	addata/ format		MIME type of the format
rft.genre	addata/ genre		<hr/> <p>Note</p> <p>It is not recommended to create GES rules based on rft.genre=unknown. You can create rules for specific genres instead.</p> <hr/>

			<p>One of:</p> <ul style="list-style-type: none"> • article: document published in a journal • book: complete in a single part, often identified by an ISBN • bookitem: section of a book, usually with a title or number • conference: record of a conference (one or more conference papers) • issue: single issue • preprint: paper or report published in print or electronically prior to publication in journal or serial • proceeding: conference presentation published in a journal or serial publication • report: report or technical report published by an organization, agency, or governmental body • unknown • document • dissertation • journal • patent • audio • series • score • video • videorecording
rft.inst			Issuing institution, for a dissertation
rft.inventor			Inventor's full name: "Smith, John J.". For a patent.
rft.invfirst			Inventor's given names: "John J.". For a patent.
rft.invlast			Inventor's last name: "Smith". For a patent.
rft.isbn	addata/ isbn	020 a if there is an 020 e; otherwise, 776 z if the record is not physical or 020 a if there is no 020 e and the record is physical	International Standard Book Number. Nine digits plus a check digit. May contain hyphens.
rft.issn	addata/ issn	022 a if there is no 022 e and the record is physical; otherwise, 022 a if there is an 022 e or 776 x if the record is not physical	International Standard Serial Number. May contain a hyphen. ISSN for a book may be associated with the series.
rft.issue	addata/ issue		Journal issue: "Spring 1998". Typically numeric.
rft.jtitle	addata/ jtitle	For the LDR positions, see Fields that Identify the Bibliographic Material Type .	Full journal title, if the LDR material_type = CR. See rft.btitle. For example, "Journal of the American Medical Association". For short title, use stitle.
rft.kind			Patent kind code, for a patent: "AU A1". Kind codes are

			meaningful within the country of origin.
rft.lccn	addata/ lccn	010 a,z	Library of Congress control number
rft.mms_id			MMS ID of the item
rft.month			Publication month
rft.number			Application number, for a patent
rft.object_type		For the LDR positions, see Fields that Identify the Bibliographic Material Type .	The LDR material_type. The default is BOOK.
rft.oclcnum	addata/ oclcid	035 a,z	OCLC control number or journal level OCLC number. May be multiple OCLC control numbers, separated by commas.
rft.pages	addata/ pages		Start and end pages of article/chapter within volume/issue: "53-58". Can also contain pages not in sequence, e.g. "12-6,64-67". See spage and epage.
rft.part	addata/ part		Either a subdivision of, or in place of, volume. Examples: "B", "Supplement".
rft.place	addata/ cop	260 a or 264 a	Publication place: "New York".
rft.prioritydate			Priority date for a patent
rft.pub	addata/ pub	502 a,c or 260 b or 264 b	Publisher name: "Harper and Row".
rft.pubdate		260 c or 260 g or 264 c or 362 a or 008(date1)	Publication date, for a patent
rft.publisher		502 a,c or 260 b or 264 b	Publisher name
rft.pbyear			Year of publication
rft.quarter	addata/ quarter		Chronology: "1", "2", "3", or "4". For non-standard chronology, use chron.
rft.series	addata/ seriestitle		Title of the series that contains this book. There may also be an ISSN associated with the series.
rft.sici	addata/ sici		Serial Item and Contribution Identifier (SICI code)
rft.spage	addata/ spage		Start page of article/chapter within volume/issue
rft.ssn	addata/ ssn		Season: "winter", "spring", "summer", or "fall". For non-standard season, use chron.
rft.stitle	addata/ stitle	245 a	Short journal title: "J Am Med Assn". For full title, use jtitle.

rft.title		245 a,b	Book title (deprecated: use btitle), journal title (deprecated: use jtitle), dissertation title, patent title
rft.tpages			Total pages: "392". Typically only for monographs (books and printed reports). May not be numeric: "F96".
rft.volume	addata/ volume		Journal volume: "124". Typically numeric, but may be roman numerals, etc.
svc.abstract			Abstract
svc.any			Any format
svc.citation			Citation
svc.fulltext			Full text
svc holdings			Holdings information. This field is not used to hide services based on whether the record has holdings. If it is included in the OpenURL, it will be saved in the Context Object for use in the GES.
svc.ill			Interlibrary loan

Item Level General Electronic Services

When the General Electronic Service is added as an item level service, you can configure the URL template to include the following Holdings and item level information:

Holdings/Item Element	Name of Placeholder
Current Library (Code)	library
Current Location (Code)	location
Current Call Number	call_number
Barcode	barcode
Material Type (Code)	material_type
Current Item Policy (Code)	item_policy
MMS ID	mms_id
Process Type (Code)	process_type
Item description	description
Storage Location ID	storage_location_id
Item Call Number	item_call_number

In addition, it is possible to add fields from the Holdings record to the URL template. The placeholder syntax is `HOL_{field}_{indicators}_{subfields}`. The use of indicators is optional. For example:

- HOL_506_ab - Alma will extract subfields a and subfield b from 506 field. Each subfield will be delimited from the next one with a space. The indicators are not taken into account.
- HOL_506_12_df - Alma will extract subfields d and subfield f from 506 field only when indicators 1 and 2 exists. Each subfield will be delimited from the next one with a space.
- HOL_506_1#_g - In this scenario, Alma will extract subfields g from 506 field only when the first indicator value is 1 with no dependency on the second indicator.

A sample URL template may be : <baseUrl>?LIB={library}&BARCODE={barcode}&FIELD1={HOL_506_ab}.

Allow any Field from the Bibliographic Record to be Used when Defining a General Electronic Service

The General Electronic Services Bib Fields Enrichment configuration screen (**Configuration > Fulfillment > Discovery Interface Display Logic > General Electronic Services Bib Fields Enrichment**) enables institutions to define which field are extracted from the record's metadata and be available for use when defining an **Availability Rule** or enhancing the **URL template** field upon definition of a **General Electronic Service** (**Configuration > Fulfillment > Discovery Interface Display Logic > General Electronic Services**).

Note

- Each General Electronic Service (GES) template generates only one GES link per record. If the bibliographic field specified in the template appears multiple times in the record, only the first instance of the field (for example, the first one that appears in the bibliographic record) is used.
- Columns **Indicator 1** and **Indicator 2** are not mandatory. All other columns are mandatory. Only **Enabled** rows are considered.
- If you choose to export the table and use the file to import it again, you need to add the **Enabled** and **Target Code** columns to the file.

Below is an example workflow:

1. Access the configuration screen and add a new row to point to the specific bibliographic field (020_a in the example).

Enabled	Record Format	Bibliographic Field	indicator 1	indicator 2	subfield	Field Name in General Electronic Service	Updated By	Last Updated
<input checked="" type="checkbox"/>	MARC21 Bibliogra	856	4	1	u	856_41_u	ext_tmpl	15/06/2023
<input checked="" type="checkbox"/>	MARC21 Bibliogra	856	4	2	u	856_42_u	ext_tmpl	15/06/2023
<input checked="" type="checkbox"/>	MARC21 Bibliogra	035	#	-	a	035_a	ext_tmpl	18/06/2023
<input checked="" type="checkbox"/>	UNIMARC Bibliogra	CCC			a	ccc_a	ext_tmpl	18/06/2023
<input checked="" type="checkbox"/>	MARC21 Bibliogra	020	#	-	a	020_a	ext_tmpl	03/07/2023

Define the Bib Field

2. You can find the newly defined bibliographic field in the input parameters section of a rule.

Name	Operator	Value
020_a	Is Not Empty	-

Define GES Rule

3. You can also utilize the newly defined field in the URL Template field of the general electronic service.

Add New Name to URL Template

4. Below is an example of how this will appear to patrons in the Discovery (Primo) system, as well as how the actual URL is constructed.
(Constructed URL example: <https://www.google.com/isbn=0491001304>)

Constructed URL

When adding a row to the "General Electronic Service Bib Fields Enrichment" configuration screen, you need to define the Record format, Bibliographic field and subfield. The defined value within the "Field Name in General Electronic Service" will be the one that appears when defining the General Electronic Rule/URL template.

Note

1. When two bibliographic records are matched, the logic only applies to the **Selected** bibliographic record.
2. If the URL template field starts with a parameter placeholder with no text or URL before it (and regardless of what comes after it), no decoding is applied to the first parameter's information.
3. For Network Zone members whose General Electronic Services derive values from the General Electronic Service Bib Fields Enrichment page, we recommend using the same names as in the network zone. This is in order to display

the General Electronic Service for institution or network zone resources.

For more information, see [General Electronic Services](#).

Sharing General Electronic Services in the Community Zone

To share and copy shared General Electronic Services, you must have one of the following roles:

- Fulfillment Administrator
- General System Administrator

Institutions spend many hours creating general electronic services. In order for these institutions to save time and effort, librarians can contribute their general electronic services to the Community Zone and copy and use the general electronic services that other institutions contributed to the Community Zone. Once the general electronic service has been copied to the institution, the institution can make changes to it in order to customize it for its needs.

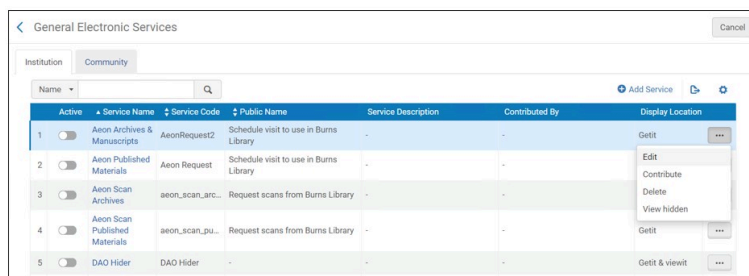
When a general electronic service is contributed, all its related rules are contributed as well.

Contributed general electronic services appear in the Community tab on the General Electronic Services page (**Configuration Menu > Fulfillment > Discovery Interface Display Logic > General Electronic Services**). Copied general electronic services appear in the Institution tab.

The general electronic services set by the network institution also appear in the **Institution** tab. To distribute the general electronic service to consortia members, the Distribute Fulfillment Network Configuration job is used (see [Configuring Fulfillment Information in the Network Zone](#)). This is since these general electronic services are managed by the network institution and therefore, cannot be edited or contributed by the member institution.

To contribute general electronic services to the Community Zone:

1. From the row actions, select **Contribute** for a general electronic service on the Institution tab of the General Electronic Services page (**Configuration Menu > Fulfillment > Discovery Interface Display Logic > General Electronic Services**).



Active	Service Name	Service Code	Public Name	Service Description	Contributed By	Display Location
<input type="checkbox"/>	Aeon Archives & Manuscripts	AeonRequest2	Schedule visit to use in Burns Library	-	-	GetIt
<input type="checkbox"/>	Aeon Published Materials	Aeon Request	Schedule visit to use in Burns Library	-	-	Edit Contribute Delete View hidden
<input type="checkbox"/>	Aeon Scan Archives	aeon_scan_arc...	Request scans from Burns Library	-	-	GetIt
<input type="checkbox"/>	Aeon Scan Published Materials	aeon_scan_pu...	Request scans from Burns Library	-	-	GetIt
<input type="checkbox"/>	DAO Hider	DAO Hider	-	-	-	GetIt & viewIt

A confirmation message appears.

The image shows a 'Confirmation Message' dialog box. At the top, it says 'You are about to contribute the following to the community'. Below this are several input fields: 'Service Code *' with the value 'aeon_scan_archives', 'Service Name *' with the value 'Aeon Scan Archives', 'Service Description' (empty), 'Contact person name' with the value 'ext_impl', and 'Contact person email' with the value 'auto.tester.mail@gmail.com'. A blue information icon and text note that contact person details will be displayed to all Alma community members. Below the fields is the question 'Are you sure you want to continue?'. At the bottom right are 'Cancel' and 'Confirm' buttons.

2. You can optionally change the **Service Code** and **Service Name**.
3. We recommend changing the **Description** to include detailed information for institutions that copy the GES.
4. You can optionally enter or change the name and email address for the **Contact person**.
5. Select **Confirm**. The service appears in the **Community** tab and can be copied by any institution.

If the general electronic service has already been contributed by the institution to the CZ, you may also edit and re-contribute an edited general electronic service. The latest general electronic service overwrites the previous general electronic service. This action has no effect on local copies of the general electronic services used by other institutions.

To view contributed general electronic services and/or copy a contributed service:

1. Open the **Community** tab on the General Electronic Services page ([Configuration Menu > Fulfillment > Discovery Interface Display Logic > General Electronic Services](#)).

To view more information about the general electronic services, from the row actions, select **View**. The profile details appear.

2. Select **Copy** in the row actions list of the general electronic service. The general electronic service is copied to your institution, and the new general electronic service is opened for editing. The general electronic service is copied, and its status is **Inactive** by default.
3. Edit the general electronic service details to match your requirements.
4. When you are done, select **Save**.
5. Select the **Institution** tab to view the general electronic service that you copied.

To remove (unshare) a general electronic service you contributed from the Community Zone:

- Select **Delete** in the row actions list of the general electronic service and select **Confirm** in the confirmation dialog box.

The general electronic service is no longer available to other institutions. However, it is not deleted; you can continue using it in the **Institution** tab. Also, if another institution has already copied this general electronic service, the deletion of your general electronic service has no effect on their local copy.

Configuring the Order of General Electronic Services

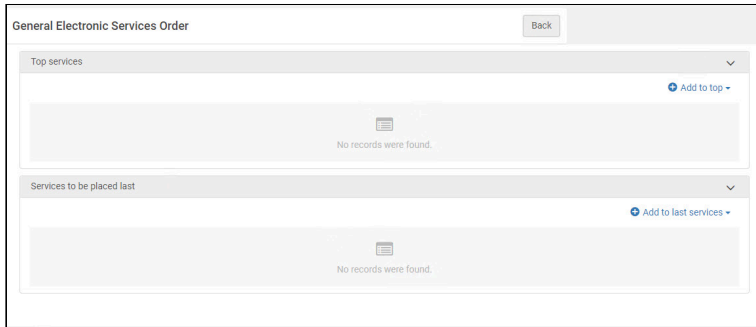
To configure the order of general electronic services, you must have one of the following roles:

- General System Administrator
- Fulfillment Administrator

With the General Electronic Services Order page, you can configure the order in which general electronic services appear in Primo. Like other services, you can also assign services to appear in the first or last group in the list.

Note

You can only configure the order of general electronic services at the institution level. Select the required institution from the **Configuring** filter on the Fulfillment Configuration page.



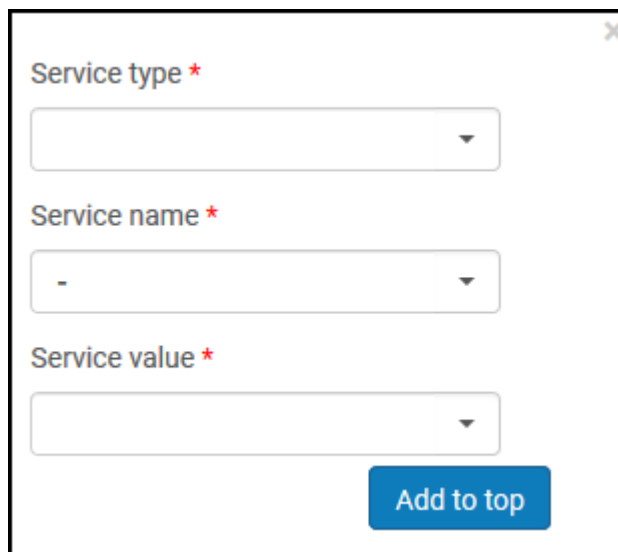
General Electronic Services Order Page

Note

This page does not have a **Save** button. Every selection made here is saved in Alma automatically.

To configure the display order of general electronic services:

1. Open the General Electronic Services Order page ([Configuration Menu > Fulfillment > Discovery Interface Display Logic > General Electronic Services Order](#)).
2. Select **Add to top** or **Add to last services** to configure the order of services at the top and bottom of the list of results, respectively.



3. In the **Service type** field, select **General Electronic Service**.
4. In the **Service name** field, select **Service**.

5. In the **Service value** field, select a service value.
6. Depending on which list you are defining, select either **Add to top** / **Add to last services**. The service appears in the list that you are defining.
7. For each list, select the arrows in the **Move Up** and **Move Down** columns to order the services.

消息自定义

当没有全文服务对OpenURL请求可用时，电子服务页面显示一条消息。管理员可以自定义消息的措辞。

Note

该配置适用于Alma-Primo环境，不适用于Primo VE。

要自定义‘无全文’消息的措辞：

1. 打开发现界面标签代码表（**配置菜单>发现界面显示逻辑>标签**）。
2. 在代码列中找到`c.uresolver.emptyList`。
3. 选择自定义。此行的描述列将出现，供您输入自定义的消息文本。
4. 当没有全文可用时，输入要显示在电子服务页面上的文本。

Note

如果您希望没有全文可用时不显示任何消息，请将此选项留空。

5. 选择保存。

故障排除 - 使用OpenURL链接解析器调试工具

您可以使用调试工具来分析OpenURL链接解析器提供的上下文服务。

该工具使您可以获取以下信息：

- 确定服务计算：
 - 查看基于OpenURL解析器，扩充和相关服务计算的上下文对象。
 - 了解上下文服务对象的生成方式：
 - 什么是潜在的服务？
 - 根据相关服务的计算增加了哪些服务？
 - 哪些服务根据常规电子服务和显示逻辑的覆盖范围或规则进行过滤？
- 确定链接解析率以及OpenURL的生成方式：
 - 使用哪个目标解析器？
 - 是否使用代理？
 - 它是资源库列表级别的静态URL吗？

- 有直接链接吗？
- 查看生成的targetURL。
- 在提供的调试内容中查看原始OpenURL。

Note

- 使用在匹配前处理的DOI完善来自CrossRef的数据（上下文对象）。
- 有关调试引文的uResolver（OpenURL）链接的信息，见[调试引文uResolver链接](#)。

要调试OpenURL：

1. 在仓储中检索要测试访问权限的电子题名或资源库列表。

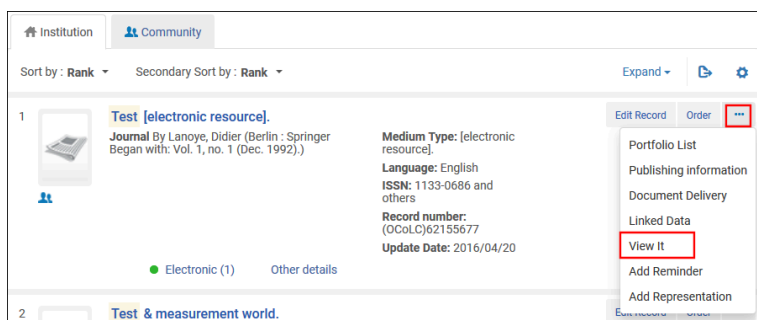
Note

对于Primo VE环境，您也可以使用Primo VE检索和显示完整的电子记录。跳转到Primo VE部分的[步骤ii](#)。

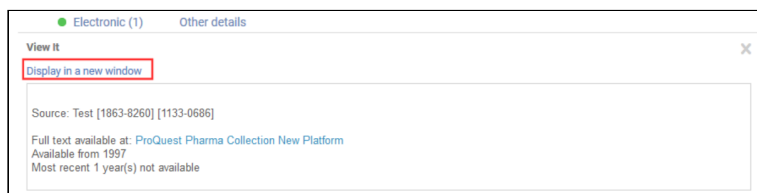
2. 根据您的Primo环境类型，执行以下步骤：

- **Alma-Primo：**

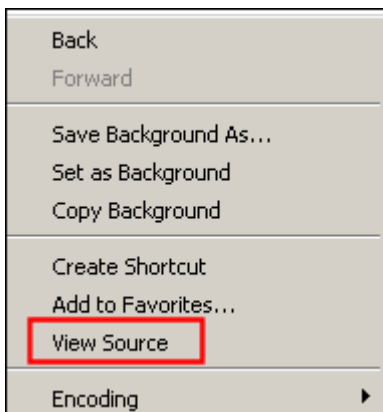
1. 根据结果类型，点击列表中的单册的查看（电子题名）或测试访问（电子资源库列表）。您还可以从资源库列表清单页面和电子服务编辑器页面的资源库列表选项卡测试访问。



2. 在查看选项卡中，点击在新窗口显示。



3. 右键点击电子服务页面上的框架，然后选择查看页面来源或框架源的选项。每个浏览器的选项有所不同。



选择查看页面源选项

4. 找到来源视图顶部的DEBUG部分。选择并复制URL。

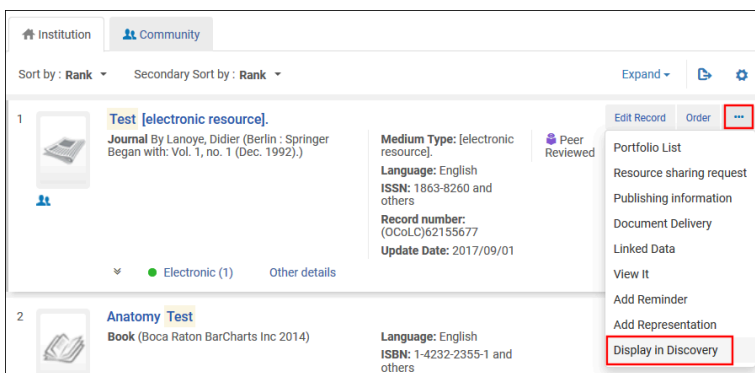


5. 打开新的浏览器页面或选项卡，粘贴从地址栏复制的调试URL，然后按回车键查看XML调试器输出。

Primo VE :

要调试，您需要启用显示**CTO**按钮，这在常规情况下隐藏。选择该按钮显示文本对象（CTO），提供结果的更多信息，帮助您处理OpenURL链接解析器提供的文本服务中的问题。

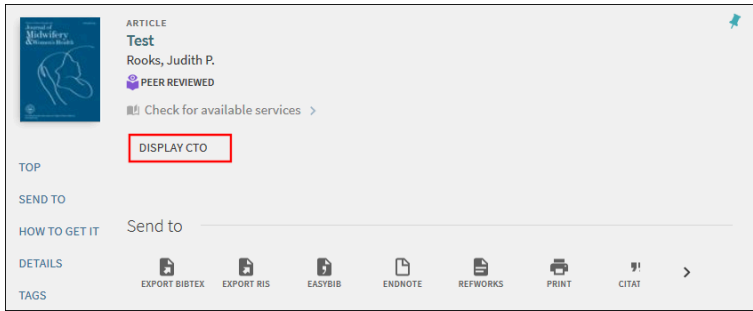
1. 对于结果列表中的记录，点击在发现系统显示打开完整显示。



2. 要启用显示**CTO**按钮，添加以下参数到记录的完整显示URL的末尾然后按回车：`&displayCTO=true`。

例如：

```
https://<Alma instance>/discovery/
fulldisplay?docid=alma9926095600521&context=U&vid=PRIMO_OAP_INST:Alma&lang=en&displa
```



3. 点击显示CTO显示XML调试器输出。

3. 滚动浏览XML以分析/调试检索结果问题。

XML输出

XML输出含有两个元素：

- <context object>元素 - 含有OpenURL对象的元数据信息。该元素是所有元数据信息的容易，例如ISSN、题名、出版日期等。该元数据由Alma作为OpenURL分析的一部分而收集。
- <context services>元素 - 含有关于服务类型、解析、代理、目标URL等的信息。Alma计算与OpenURL相关的这些服务。该服务也含有target_url。

这是XML调试器输出的示例：

```
<uresolver_content xmlns="http://com/exlibris/urm/uresolver/xmlbeans/u"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <context_object>
    <keys>
      <key id="rft.stitle">Test</key>
      <key id="rft.pub">Springer</key>
      <key id="rft.place">Berlin :</key>
      <key id="licenseEnable">>true</key>
      <key id="sfx.sid">primo.exlibrisgroup.com</key>
      <key id="rft.jtitle">Test</key>
      <key id="available_services">viewit</key>
      <key id="available_services">getit</key>
      <key id="rft.genre">journal</key>
      <key id="Incoming_URL">http%3A%2F%2Fdocedu-
na01.alma.exlibrisgroup.com%2Fview%2Furesolver%2FTRAINING_1_INST%2Fopenurl%3Fdebug%3Dtrue%26svc_
      <key id="institution">521</key>
      <key id="internalAccess">>true</key>
      <key id="rft.oclcnum">62155677</key>
      <key id="u.ignore_af_filter">>true</key>
      <key id="req.id" xsi:nil="true"/>
      <key id="rft.mms_id">9926095600521</key>
      <key id="user_ip" xsi:nil="true"/>
      <key id="debug">>true</key>
      <key id="inventory_id">519285510000521</key>
      <key id="rfr_id">info:sid/primo.exlibrisgroup.com</key>
      <key id="rft.inventory_id">519285510000521</key>
    </keys>
  </context_object>
</uresolver_content>
```

```

<key id="publication_place">Berlin :</key>
<key id="rft.object_type">JOURNAL</key>
<key id="isInNewWindow">>true</key>
<key id="rft.publisher">Springer</key>
<key id="ctx_id">1325448060000521</key>
<key id="rft.pubdate">Began with: Vol. 1, no. 1 (Dec. 1992).</key>
<key id="full_text_indicator">>true</key>
<key id="u.ignore_date_coverage">>true</key>
<key id="rft.title">Test</key>
<key id="rft.lccn">2009252997</key>
<key id="customer">510</key>
<key id="rfr.rfr">primo.exlibrisgroup.com</key>
<key id="rft.eissn">1863-8260</key>
<key id="rft.eissn">1133-0686</key>
</keys>
</context_object>
<context_services>
  <context_service service_type="getFullTxt" context_service_id="1325447980000521">
    <keys>
      <key id="package_name">ProQuest New Platform</key>
      <key id="package_public_name">ProQuest Pharma Collection New Platform</key>
      <key id="package_display_name">ProQuest Pharma Collection New Platform</key>
      <key id="package_internal_name">PROQUEST_PHARMA_COLLECTION_NEW_PLATFORM</key>
      <key id="interface_name">ProQuest New Platform</key>
      <key id="package_pid">619246910000521</key>
      <key id="service_type_description">Full text available via</key>
      <key id="character_set">iso-8859-1</key>
      <key id="Is_free">0</key>
      <key id="portfolio_PID">5310098520000521</key>
      <key id="cz_link_id">532670000001098994</key>
      <key id="electronic_material_type">JOURNAL</key>
      <key id="Availability">Available from 1997&lt;br> Most recent 1 year(s) not
available&lt;br></key>
      <key id="static_url">>true</key>
      <key id="parser_program">PROQUEST::open</key>
      <key id="parse_parameters">url=http://gateway.proquest.com/openurl &amp;
clientid= &amp; url2=http://search.proquest.com&amp;jkey=1486339</key>
      <key id="Authentication_note"/>
      <key id="public_note"/>
      <key id="proxy_enabled">>false</key>
      <key id="proxy_selected">DEFAULT</key>
      <key id="related_title">@TITLE (@RelationType)</key>
      <key id="is_related_service">>false</key>
      <key id="is_closly_related">>false</key>
      <key id="license_exist">>false</key>
      <key id="crossref_enabled">no</key>
    </keys>
    <resolution_url>https://docedu-
na01.alma.exlibrisgro...customerId=510</resolution_url>
    <target_url>http://gateway.proquest.com/openurl?...%2Fsid%3Aprimo</target_url>
  </context_service>
</context_services>

```

Note: to get the `<target_url>` result in Primo VE, it's not sufficient to use `showCTO=true`. 您必须打开CTO, 找到“传入URL”并添加`debug=true&svc_dat=CTO`到其中 (要使目标URL显示, 需要`debug=true`)。

```
<is_error>>false</is_error>
<error_code>>null</error_code>
</context_service>
</context_services>
<performance_counters>
  <performance_counter name="TOTAL" duration="0.0"/>
  <performance_counter name="MMS_LOOKUP" duration="0.0"/>
  <performance_counter name="ENRICH" duration="0.0"/>
  <performance_counter name="PARSE" duration="0.0"/>
  <performance_counter name="GET_SERVICES" duration="0.01"/>
  <performance_counter name="FILTER" duration="0.003"/>
  <performance_counter name="SAVE" duration="0.005"/>
  <performance_counter name="GET_ZERO_TITLE_SERVICES" duration="0.0"/>
  <performance_counter name="FETCH_SERVICE_THRESHOLD_RULES" duration="0.0"/>
  <performance_counter name="CREATE_ZERO_TITLE_SERVICES" duration="0.0"/>
  <performance_counter name="SAVE_ZERO_TITLE_SERVICES" duration="0.0"/>
  <performance_counter name="GET_SINGLE_SERVICE" duration="0.0"/>
  <performance_counter name="EXECUTE_TARGET_PARSER" duration="0.0"/>
  <performance_counter name="GET_URESOLVER_CONTENT" duration="0.0"/>
  <performance_counter name="UPDATE_SELECTED" duration="0.0"/>
</performance_counters>
</uresolver_content>
```

分析/调试检索结果问题

调试器提供关于处理OpenURL、服务计算的信息, 也提供用于链接题名而创建的`target_url`。

通过`<context services>`元素, 可以看到Alma计算的与该OpenURL相关的所有服务。这通过以下方式有所帮助:

- `target_url`密钥显示由Alma生成的链接。这可以帮助您查看Alma创建的URL是否有问题, 或者供应商侧是否有问题。该链接含有可以帮助您调试部分问题的信息。
- 您也可以更好地了解链接器服务页面。例如, 如果希望显示特定服务, 但是没有显示, 检查以下内容:
 - 覆盖范围信息。服务可能不符合覆盖范围信息。例如, 您可能希望看到卷1第1期, 但是图书馆值采购了卷2。因此, Alma过滤掉了该服务。
 - ISBN/ISSN编号。链接可能需要ISBN。您的引文可能有ISSN。因此, Alma的链接不显示。
 - 显示逻辑规则。服务也有可能由于定义的显示逻辑规则而过滤掉。

请注意, 记录从结果中显示过滤出来的地方, XML输出包含过滤器 (`true`或`false`) 和过滤原因的密钥ID。例如, 如果过滤器原因参数包含日期过滤器, 并且OpenURL输入指定了`year=2010`的数据参数, 则可能表示该记录已被过滤, 因为该范围超出了指定的日期范围。

链接解析器使用分析报告

有关Alma分析中可用于创建链接解析器使用分析报告的字段，见[链接解析器使用](#)。有关Alma分析的通用信息，见[分析](#)。

Alma链接解析器特殊服务

开放获取

用户可以对Unpaywall Open Access文章启用链接解析服务：

- 要启用该服务，设置 `enable_open_access_services_from_unpaywall_api` 客户参数为 `true`（见[配置其他设置（读者服务）](#)中的[enable_open_access_services_from_unpaywall_api](#)）。
- 开发获取信息提交的位置可以在在线服务顺序配置（[配置菜单 > 读者服务 > 发现界面显示逻辑 > 在线服务顺序](#)）中配置。有关更多信息，见[配置在线服务的顺序](#)。开发获取信息的默认位置在末端。
- 可以配置开放获取规则指定哪些显示或隐藏。见[配置显示逻辑规则](#)。
- 也可以配置开放获取的直接链接。见[配置直接链接](#)。
- 对于免费的开放获取文章的检索结果，请注意，Alma只在从发现系统（Primo VE）打开记录的完整视图时检查免费全文访问。如果文章或资源的唯一可用全文资源免费，则不会显示在检索结果中（除非在Primo中应用“扩展我的结果”过滤器）。
- 此外，如果在Unpaywall API响应中没有PDF响应，不会显示Unpaywall Service。
- Unpaywall服务根据在API请求中发送的电子邮件限制呼叫。如果没有定义机构电子邮件，创建机构特定的通用无效电子邮件并包含在API中。转至[配置 > 通用 > 添加图书馆或编辑图书馆信息 > 联系信息](#)。
- 添加指示用于认证CDI链接中使用的OA链接没有代理。Alma认证由CDI返回的链接中没有对OA链接使用代理。这在客户设置了代理但是不想对OA链接使用时特别有用。

要认证未使用代理，添加OA指示。指示应用于以下由CDI返回的链接：

- `linktorsc`（常规‘记录中的链接’链接）
- `linktorsradditional`（所有链接）
- `linktopdf`（快速链接）
- `linktohtml`（快速链接）

CDI对`linktorsc` /`linktorsradditional`部分中的每个OA链接提供以下信息：

```
<links>
<linktorsradditional>$$U<link>$$G<Provider>$$H<OA></linktorsradditional>
<linktorsradditional>$$U<link>$$G<Provider>$$H<OA></linktorsradditional>
<linktorscr>$$U<link>$$G<Provider>$$H<OA></linktorscr>
</links>
```

对OA链接，`$$H`含有字符串“free_for_read”指示如果未检测到OA链接，`$$H`留空或不存在。如果链接包含“free_for_read”指示，这会在决定是否前置代理URL时纳入考虑范围。

例如：

```
<linktorscr>$$Uhttps://www.doaj.org/ABC/123.pdf$$EPDF$$P1$$GDOAJ$$Hfree_for_read</linktorscr>
<linktorscradditional>$$Uhttps://www.doaj.org/ABC/
123.pdf$$EPDF$$P1$$GDOAJ$$Hfree_for_read</linktorscradditional>
<linktorsrcadditional>$$Uhttp://api.digitalnz.org/records/43...n $$GDigitalNZ$$Hfree_to_read</linktorsrcadditional>
<linktohtml>$$Uhttps://www.proquest.com/docview/18...P50$$Gproquest$$Hfree_for_read</linktohtml>
<linktopdf>$$Uhttps://www.sciencedirect.com/scien...hub$$GElsevier$$Hfree_for_read</linktopdf>
```

链接解析器 - 相关记录的服务

配置电子服务的相关记录

Note

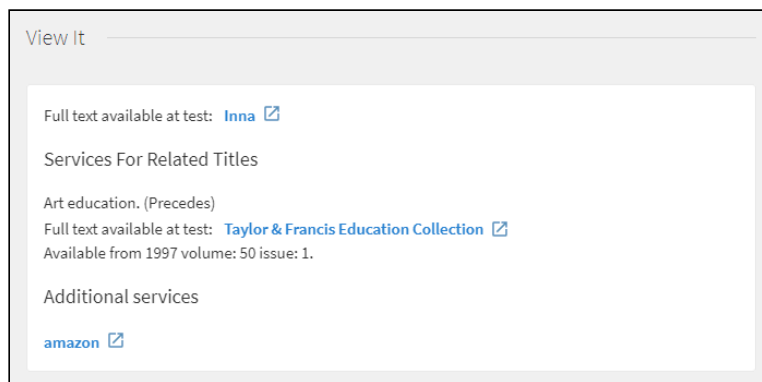
该部分仅对Primo适用。有关如何在Primo VE和中配置相关记录的信息，见[配置Primo VE的相关记录服务](#)。

相关记录指向OpenURL链接解析器，当用户在搜索结果中接收某个记录时，还应返回相关记录。特定MARC字段，称为链接条目（例如MARC字段76X-78X），允许记录链接到相关书目记录以及对用户区分它们的关系。对于用于链接条目的MARC字段的完整列表，见[修改相关电子服务的显示标签](#)。有关纸本资源的更多信息，见[配置纸本馆藏的相关记录](#)。

对于电子服务，相关记录的配置是有用的，原因如下：

- 用户寻求的文章只能在相关版本的期刊上提供。
- OpenURL中的元数据可以用于一个发布，但实际上，另一个名字的相关期刊才是终端用户寻求的。
- 供应商可能在馆藏中列出之前的或更新的版本，导致共享区不一致。例如，期刊*Civil Engineering Systems*现在名为*Civil Engineering and Environmental Systems*。

下例中，查看显示已发现记录和相关记录的可用服务：



相关记录如查看中所示

密切关系表明，这两条记录在搜索结果中应该被认为是相同的。如果OpenURL要求的记录与另一个记录有密切关系（MARC 773和774），则相关记录的电子服务包含在查看中，但并不指明这些服务是相关记录。对于用户来说，似乎这些服务用于在OpenURL中发送的记录。由于关系类型非常接近，可以认为是等价的；就用户而言，不需要区分。其他类型的关系被认为较远，并列在查看的相关标题服务部分。

Note

要在查看中配置与相关标题相同的部分中配置关联关系，见[启用Primo中相关记录显示](#)中的显示密切相关的记录服务选项。

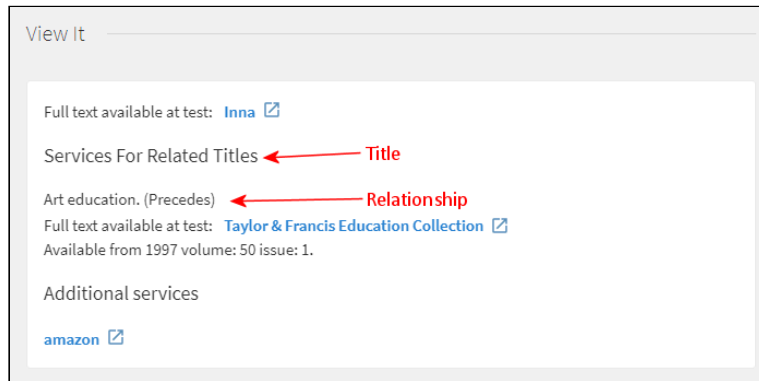
Note

如果有773\$g过滤器且相应单册字段字段为空，单册满足过滤条件。

修改相关电子服务的显示标签

发现界面标签代码表（[配置 > 读者服务 > 发现界面显示逻辑 > 标签](#)）使您可以自定义和翻译查看中的以下标签：

- 题名 - 在查看中相关记录列表上方显示的标签：
- 关系 - 在查看和获取中显示每个相关条目的标签。要修改标签，见下表中的相关关系。



相关记录如查看中所示

对于上述示例，您可以通过修改发现显示标签代码表中的以下代码的描述字段自定义题名和关系的标签：

发现界面标签代码表

代码	描述
c.uresolver.ServicesForRelatedTitles	适用于相关题名的服务
c.uresolver.viewit.related_type_list.PRECEDES	先于

下表显示了在查看中为每种类型的关系出现的书目记录中定义的MARC字段和出厂标签之间的相关性。有关修改标签的信息，见[配置发现界面中的服务标签](#)。

Note

Primo详情部分显示的标签和信息由Primo中定义的规范化规则确定。

相关记录类型

关联/类型	MARC字段	UNIMARC字段	在Primo的位置
主系列条目 (远程)	760	410	查看: c.uresolver.viewit.related_type_list.MAIN_SERIES = Main Series
	指示符 0#		
	\$w, \$x	\$1且从001开始	
子系列条目 (远程)	762	411	查看: c.uresolver.viewit.related_type_list.SUBSERIES = Subseries
	指示符 0#		
	\$w, \$x	\$1且从001开始	
原始语言条目 (远程)	765	454	查看: c.uresolver.viewit.related_type_list.ORIGINAL_LANGUAGE = Original Language
	指示符 0#		
	\$w, \$x, \$z	\$1且从001开始	
翻译条目 (远程)	767	453	查看: c.uresolver.viewit.related_type_list.TRANSLATION = Translation
	指示符 0#		
	\$w, \$x, \$z	\$1且从001开始	
补充条目 (远程)	770	421	查看: c.uresolver.viewit.related_type_list.SUPPLEMENT = Supplement
	指示符 0#		
	\$w, \$x, \$z	\$1且从001开始	
补充父条目 (远程)	772	422	查看: c.uresolver.viewit.related_type_list.SUPPLEMENT_PARENT = Supplement Parent
	指示符 00		
	\$w, \$x, \$z	\$1且从001开始	
馆藏单册条目 (关闭)	773	461	查看和获取: c.uresolver.viewit.related_type_list.PART_OF = Part Of
	指示符##		详情: 显示/是部分 (在Primo规范化规则中定义)
	\$w, \$x, \$z	\$1且从001开始	<hr/> Note 对于Primo VE, 获取不在题名后显示关系类型, 密切关联的单册始终显示在相关题名位置部分中。 <hr/>
组成单位条目 (关闭)	774	462-464	查看和获取: c.uresolver.viewit.related_type_list.CONTAINS = Contains
	指示符 0#		

关联/类型	MARC 字段	UNIMARC 字段	在Primo的位置
	\$w	462 \$1且从001开始 463 \$1且从001开始 464 \$1且从001开始	<hr/> Note 对于Primo VE，获取不在题名后显示关系类型，密切相关关联的单册总会显示在 相关题名位置 部分中。 <hr/>
	\$x		
	\$z		
其他版本条目（远程）	775	451	查看：c.uresolver.viewit.related_type_list.OTHER_EDITION = Other Edition
	指示符 0#		
	\$w, \$x, \$z	\$1且从001开始	
其他纸本表单条目（远程）	776	452	查看：c.uresolver.viewit.related_type_list.ADDITIONAL_FORM = Additional form
	指示符 0#		
	\$w, \$x, \$z	\$1且从001开始	
有条目的发行（远程）	777	423	查看：c.uresolver.viewit.related_type_list.ISSUED_WITH = Issued With
	指示符 0#		
	\$x	\$1且从001开始	
	\$w		
上一条目（远程）	780	430 431 432 433 434 435 436 437	查看：c.uresolver.viewit.related_type_list.PRECEDES = Precedes 详情：显示/关系 - 相关题名：较早的题名（在Primo规范化规则中定义）
	指示符 00, 01, 02, 03, 04, 05, 06, 07		
	\$w, \$x, \$z	\$1且从001开始	
下一条目（远程）	785	440 441 442 443 444 445 446 447	查看：c.uresolver.viewit.related_type_list.SUCCEEDS = Succeeds 详情：显示/关系 - 相关题名：之后的题名（在Primo规范化规则中定义）
	指示符 00, 01, 02, 03, 04, 05, 06, 07, 08		

关联/类型	MARC字段	UNIMARC字段	在Primo的位置
	\$w, \$x, \$z	\$1且从001开始	
数据源条目	786 \$w, \$x, \$z		查看：c.uresolver.viewit.related_type_list.CONTAINS = Contains
其他关系条目（远程）	787	412 413 424 425 455 456 470 481 482 488	查看：c.uresolver.viewit.related_type_list.OTHER_RELATIONSHIP = Other Relationship
	指示符 0#		
	\$w, \$x, \$z	\$1且从001开始	
添加条目个人名称的连续出版物	800 \$w, \$x		查看：c.uresolver.viewit.related_type_list.CONTAINS = Contains 详情：显示/关联 – 连续出版物：（在Primo规范化规则中定义）
添加条目团体名称的连续出版物	810 \$w, \$x		查看：c.uresolver.viewit.related_type_list.CONTAINS = Contains 详情：显示/关联 – 连续出版物：（在Primo规范化规则中定义）
添加会议名称的连续出版物	811 \$w, \$x		查看：c.uresolver.viewit.related_type_list.CONTAINS = Contains 详情：显示/关联 – 连续出版物：（在Primo规范化规则中定义）
添加条目同一题名的连续出版物	830 \$w, \$x		查看：c.uresolver.viewit.related_type_list.CONTAINS = Contains 详情：显示/关联 – 连续出版物：（在Primo规范化规则中定义）
有效的ISBN，ISSN或其他标准号码（远程）	020 \$a, \$e	010 \$a	查看：c.uresolver.viewit.related_type_list.REPLACED_BY = Replaced By
	022 \$a, \$e	011 \$a	
	024 \$a	013 \$a, 014 \$a, 015 \$a, 016 \$a, 017 \$a, 072 \$a, 073 \$a	
取消/无效的ISBN，ISSN	020 \$z	010 \$z	查看：c.uresolver.viewit.related_type_list.REPLACES

关联/类型	MARC字段	UNIMARC字段	在Primo的位置
或其他标准号码 (远程)	022 \$y, \$z	011 \$g, 011 \$y, 011 \$z	= Replaces
	024 \$z	013 \$z, 014 \$z, 015 \$z, 01 \$z, 017 \$z, 072 \$z, 073 \$z	
链接ISSN (远程)	022 \$l	011 \$f	查看 : c.uresolver.viewit.related_type_list.LINKS_TO = Links To

有关配置相关记录的更多信息，请见[配置电子服务的相关记录](#)。

在Primo中启用显示相关记录

要配置相关记录，您必须具有以下角色之一：

- 通用系统管理员
- 读者服务管理员

相关记录服务配置页面使您能够配置出现在Primo/Primo VE的查看和获取中的相关题名的电子服务。

要启用相关记录服务：

1. 打开相关记录服务配置页面（[配置菜单](#) > [读者服务](#) > [发现界面显示逻辑](#) > [相关记录](#)）。

相关记录服务配置页面

2. 对于电子馆藏，参考下表配置相关记录在查看中的显示方式。有关更多信息，见[配置电子服务的相关记录](#)和[修改相关电子服务的显示标签](#)。

参数	描述
启用相关记录服务	<p>如果您想在“查看”中显示记录的相关题名，则选择是，并且启用以下字段来限制或修改特定类型记录的相关题名的显示。</p> <hr/> <p>Note</p> <p>当设置为是时，“查看”将仅显示相关记录的服务，并且对于使用来自网络区的分布式电子资源访问的环境，如果在机构区中找不到匹配的题名，则不会显示来自网络区的匹配记录。</p> <hr/> <p>如果不想在“查看”中显示记录的相关题名，选择否。</p> <hr/> <p>Note</p> <p>当设置为否时，对于使用来自网络区的分布式访问电子资源的环境，如果在机构区中找不到匹配的题名，“查看”将显示来自网络区的匹配记录。</p> <hr/>
如果全文可获取，则显示相关服务	<p>如果有全文可用，显示相关记录的服务。如果OpenURL中的原始记录有全文服务，则不会显示相关记录的服务。</p>
显示连续出版物的相关服务	<p>显示连续出版物的相关服务（具有期刊资料类型）。</p>
显示专著的相关服务	<p>包含专著（具有图书材料类型）的相关服务。</p>
复制电子资源库服务	<p>为远程相关服务使用复制电子资源库服务。如果相关记录与相同的电子资源库相关联，则Primo仅显示一个服务。</p> <hr/> <p>Note</p> <p>该函数由本地副本过滤器处理，该过滤器无法关闭。</p> <hr/>
为相关服务启用直接链接	<p>打开直链功能。</p>
禁用数字记录的相关记录服务	<p>禁用数字记录的相关记录服务。</p>
显示密切相关记录服务	<p>紧密相关的服务（在书目记录中定义为MARC 773或774字段）应如何显示：</p> <ul style="list-style-type: none"> ◦ 作为原有服务的一部分 – 紧密相关的服务放置在查看的常规服务列表中，没有指示这些是相关题名的服务。 ◦ 从初始记录服务分离 – 密切相关的服务放置在查看的相关题名服务部分。

3. 对于纸本馆藏，参考下表配置相关记录在获取中的显示方式。有关更多信息，见[配置纸本馆藏的相关记录](#)。

相关记录服务配置选项 - 获取部分

参数	描述
启用相关记录馆藏	<p>如果想要在获取中显示记录的相关题名，选择是。如果启用，剩余的字段会使您配置限制或修改特定类型记录的相关题名显示。</p> <hr/> <p>Note</p> <p>即使相关的书目记录被屏蔽，相关记录也会显示在“获取”中。如果您不想显示已屏蔽相关记录的相关馆藏，则必须屏蔽其馆藏。</p> <hr/>
显示连续出版物的相关馆藏	<p>选择该选项显示连续出版物的相关馆藏记录。</p>
显示专著的相关馆藏	<p>选择该选项显示专著的相关馆藏记录。</p> <p>请注意，对于专著，在读者提交读者服务题名层级的请求时，会考虑显示在获取中的相关馆藏。如果禁用了专著的相关记录显示，读者服务题名层级请求不会考虑未显示的馆藏相关记录。</p>
显示密切相关记录馆藏	<p>选择以下选项指示想要如何在获取中显示密切相关记录（通过书目记录的MARC 773或774字段定义）：</p> <ul style="list-style-type: none"> 作为原有馆藏的一部分 – 紧密相关的记录放置在获取的初始馆藏列表中，没有指示这些是相关馆藏，包括题名和相关类型。 从初始记录馆藏分离 – 密切相关的记录放置在查看的相关题名服务部分。有关更多信息，见上表中的c.uresolver.getit2.display_related_holding_separately_from_original_record。 <hr/> <p>Note</p> <ul style="list-style-type: none"> 对于Primo VE，不管如何设置，相关记录会分开显示。 默认情况下，最多显示10个相关题名的位置。要增加最大位置数，请编辑“发现客户设置”映射表中的max_holding_per_record参数（配置菜单 > 发现 > 其他 > 客户设置）。 <hr/>

4. 选择保存。