1. **Swisslog SynQ Automated Storage Retrieval System (ASRS)**

To configure ASRS functionality, you must have the following role:

* General System Administrator

To place requests for remote storage items, you must have the following role:

* Fulfillment Services Operator

An Automated Storage and Retrieval System (ASRS) is a system for storing library resources using special cost-effective storing techniques, and based on an automated system which is used whenever a resource needs to be retrieved from the storage. The ASRS utilizes an automated retrieval machine and a special integrated software control system to provide fully automated, high density media archiving.

The Automated Remote Storage must be notified each time items are added or removed from the remote storage. Alma uses the [Inventory Remote Storage Update job](https://knowledge.exlibrisgroup.com/Alma/Product_Documentation/010Alma_Online_Help_%28English%29/050Administration/070Managing_Jobs/030Scheduled_Jobs#Inventory_Remote_Storage_Update) to send messages to the remote storage so that the ASRS can update its own database of inventory stored in the remote storage.

Additionally, Alma sends a message to the remote storage whenever a request is created, so that the ASRS system can automatically pull the proper bin off the shelf and supply the requested item.  Immediately after the requests are placed from Primo or from Alma, they are communicated to the remote storage online. This communication of the requests is **not**related to the job schedule of the the [Inventory Remote Storage Update job](https://knowledge.exlibrisgroup.com/Alma/Product_Documentation/010Alma_Online_Help_%28English%29/050Administration/070Managing_Jobs/030Scheduled_Jobs#Inventory_Remote_Storage_Update).

To use Swisslog SynQ ASRS, perform the following actions:

* Configure Swisslog SynQ ASRS
* Request a Swisslog SynQ ASRS item
* Update Swisslog SynQ ASRS inventory

For a typical ASRS request ASRS workflow and other frequently asked questions about using automated storage and retrieval systems in Alma, see [Closed Storage, ASRS](https://knowledge.exlibrisgroup.com/Alma/Product_Materials/050Alma_FAQs/Fulfillment/Request_Management#Closed_Storage.2C_ASRS).

**Configuring Swisslog SynQ ASRS**

Configuring Swisslog SynQ ASRS includes the following steps:

* Configure a Swisslog SynQ ASRS integration profile
* Configure remote storage – See [Adding a Remote Storage Facility](https://knowledge.exlibrisgroup.com/Alma/Product_Documentation/010Alma_Online_Help_%28English%29/030Fulfillment/080Configuring_Fulfillment/020Fulfillment_Infrastructure/Configuring_Remote_Storage_Facilities#Adding_a_Remote_Storage_Facility).
* Configure locations – See [Adding a Physical Location](https://knowledge.exlibrisgroup.com/Alma/Product_Documentation/010Alma_Online_Help_%28English%29/030Fulfillment/080Configuring_Fulfillment/020Fulfillment_Infrastructure/Configuring_Physical_Locations#Adding_a_Physical_Location).

**Configuring a Swisslog SynQ ASRS Integration Profile**

**To configure a Swisslog SynQ ASRS integration profile**

1. On the Integration Profiles List page (**Configuration Menu > General > External Systems > Integration Profiles**), select **Add Integration Profile**. The first page of the integration profile wizard opens.
2. In the **Code** and **Name** fields, enter a code and name for the profile, respectively.
3. In the **Integration type** field, select **Remote Storage**. The **System (for Ex Libris’ informational purposes)** field appears.
4. In the **System (for Ex Libris’ informational purposes)** field, select **Swisslog SynQ**.
5. Select **Next**. The second page of the wizard opens.
6. In the **Integration type** field, select **Swisslog SynQ**. The page refreshes and displays additional fields.



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1. In the **Remote system URL** field, which is the URL of the remote Swisslog SynQ system
2. In the **Owner**field type in the code that identifies your system, as per Swisslog requirements.
3. In the **Confidential Item Policies** field, select that item policies that, if attached to an item, will cause it to be updated in the Swisslog system as confidential=true
4. In the **Active inventory remote storage job**field, select **Active**.
5. In the **Schedule inventory remote storage job**field, select the relevant scheduling for the inventory job to run the job automatically.
6. Select **Save** to save the profile.

**Requesting a Swisslog SynQ ASRS Item**

**To request a Swisslog SynQ ASRS item:**

1. From the search bar, search for a title or item whose location is connected to remote storage, or whose integration profile has a type of **ASRS Remote Storage**.
2. Select **Request** to place a request. If an ASRS item is available to fulfill the request, the item's **Process Type = Requested** on the Repository Search page.
3. The request displays on the Resource Request Monitoring page (**Fulfillment > Resource Requests > Monitor Requests & Item Processes**) with **Workflow Step = Request Communicated to Storage**.

When an ASRS system needs to be automatically updated by Alma with the addition (Item Add) or removal (Item Delete) of items from the remote storage facility, the [Inventory Remote Storage Update job](https://knowledge.exlibrisgroup.com/Alma/Product_Documentation/010Alma_Online_Help_%28English%29/050Administration/070Managing_Jobs/030Scheduled_Jobs#Inventory_Remote_Storage_Update) must be activated (see the procedure in [Running the ASRS Update Job](https://knowledge.exlibrisgroup.com/Alma/Product_Documentation/010Alma_Online_Help_%28English%29/090Integrations_with_External_Systems/040Fulfillment/050Dematic_Automated_Storage_Retrieval_System_%28ASRS%29#Running_the_ASRS_Update_Job), below).

The Item Delete message is only sent when:

* + The previous current location is storage and the current location is not a storage location, or they are not the same remote storage location.
	+ The permanent location is not a storage location.

The Item Add message will now only be sent when the item's current location is changed from a non-storage location to a storage location and the previous permanent location was not a storage location (or not the same storage location).

**Running the ASRS Update Job**

**To run the job to update the ASRS with inventory changes:**

1. Ensure the Swisslog SynQ ASRS integration profile is configured, as described in [Configuring a Swisslog SynQ ASRS Integration Profile](https://knowledge.exlibrisgroup.com/Alma/Product_Documentation/010Alma_Online_Help_%28English%29/090Integrations_with_External_Systems/040Fulfillment/050Dematic_Automated_Storage_Retrieval_System_%28ASRS%29#Configuring_a_Dematic_ASRS_Integration_Profile).
2. On the Integration Profiles List page (**Configuration Menu > General > External Systems > Integration Profiles**), select from the following options:
	* To schedule the Inventory Remote Storage Update Job to run automatically, select the interval to run the job in the **Schedule inventory remote storage update job** field, and select **Save**.

The scheduled job appears on the Monitor Jobs page (see [Viewing Scheduled Jobs](https://knowledge.exlibrisgroup.com/Alma/Product_Documentation/010Alma_Online_Help_%28English%29/050Administration/070Managing_Jobs/030Scheduled_Jobs)) with the name **Inventory Remote Storage Update <Integration Profile Name>**

* + To run the Inventory Remote Storage Update Job manually, select **Run Inventory Remote Storage Update Job**.

The job's output appears in a job report. For more information on job reports, see [Viewing Job Reports](https://knowledge.exlibrisgroup.com/Alma/Product_Documentation/010Alma_Online_Help_%28English%29/050Administration/070Managing_Jobs/050Viewing_Completed_Jobs#Viewing_Job_Reports).