



Optional features for bulk share


Once you have [installed and configured DataSync for ServiceNow](#), and have successfully [set up a bulk share](#) and understand how it works, there are various bulk share settings you can configure. These optional features can help you customize your DataSync experience and leverage DataSync's robust capabilities to make your organization's integration processes more powerful and streamlined.



Create New Bulk Share
Create a new bulk share record.



View Bulk Shares
View and manage your bulk share records.



Data Obfuscation Dashboard
View the obfuscation rules created for dynamic shares and bulk shares.

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Explore all of these available features below!

Bulk share history set data

This feature allows you to share history set data for the table that you are bulk sharing. History sets in ServiceNow identify which particular records from an audited table contain historical information. History set records only contain a recent subset of historical information (within the past 30 days of inactivity). The following fields will be visible to you in list view for history sets:

| Field | Description |
|-----------|--|
| ID | An identifier for the record whose history is being recorded |
| Table | The audited table for the record whose history is being recorded |
| Load Time | The amount of time it took to generate the history set |

For more information about ServiceNow history sets, see [history sets](#) and [differences between audit and history sets](#).

Here's how to enable the sharing of history set data for a bulk share:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to share the history set data for.
3. In the resulting bulk share page, click the **Miscellaneous** tab, and check the **Include history set** box.
4. Click **Update**.

 With [DataSync Agent](#), this option will create a sys_history_xxx table on the target database.

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Clone a bulk share

This feature allows you to simply clone an existing bulk share or clone and immediately run an existing bulk share.

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.

2. Find and click into the bulk share (the clickable timestamp) that you want to clone.
3. In the resulting bulk share page, scroll down to the **Related Links** section, and click **Clone bulk configuration** to create a duplicate of the current bulk share, or click **Clone and run bulk share** to create a duplicate of the current bulk share and then immediately execute the newly duplicated share.

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Preview a bulk share

This feature allows you to preview a bulk share before executing it. You can see how many records will be shared out and details about when the shared records were created.

What details will display on the preview page? (click to reveal)

- The number of records that will be shared from the selected table.
- If **include attachments** is selected, an estimate on the number of **attachment** records that will be shared. This will be the combined total of both **sys_attachment** and **sys_attachment_doc** records since both tables are required to re-construct attachments when replicating.
- If **include journal fields** is selected, an estimate on the number of **sys_journal_field** records that will be shared.
- If **include audit log** is selected, an estimate on the number of **sys_audit** records that will be shared.
- A trend chart showing a monthly breakdown of when records were created in the selected table in the last 12 months.
- If **include all child tables** is selected, the number of child records will be shared.

Here's how to preview a bulk share:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to preview.
3. In the resulting bulk share page, scroll down to the **Related Links** section, and click **Preview**.
4. On the resulting preview page, you'll see a the number of records to be shared, and a graph showing when the records were created. Click the menu icon () if you want to download the graph. Click **Back to Bulk Share** to return to the bulk share record.

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Run a bulk share as another user

This feature allows you to run a bulk share as another user, rather than the default system user that has access to all of the table's records. This feature can be useful when you want to limit the bulk share to a subset of data that certain users have access to, such as records in one domain in your [domain separated instance](#).

Here's how to enable this feature:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
 2. Find and click into the bulk share (the clickable timestamp) that you want to run as another user.
 3. In the resulting bulk share page, click the **Miscellaneous** tab, and click the **search** icon (magnifying glass) next to the **Run as** field.
 4. Choose the user to run as for your bulk share.
 5. Click **Update**.
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Run a bulk share again

This feature allows you to run an existing bulk share again, once it has a status of **Completed**. You may want to run the same bulk share multiple times if your intent is to migrate the same table data intermittently.

Here's how:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to run again. It must have a **Completed** status.
3. In the resulting bulk share page, click **Execute Again** in the top right corner.

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Bulk share only sys_id listed

This feature allows you to bulk share out only the **sys_ids** for specific records. This is useful for when you don't want to create filters for a bulk share.

Here's how:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) for which you want to share only the **sys_ids** on specific records.
3. In the resulting bulk share page, click the **Data Enrichment** tab, and check the **Share only Sys IDs listed** box.
4. Then, scroll down and click the **Sys IDs** tab. This tab will only appear once you check the box from Step 3.

The screenshot shows the 'Bulk Share' configuration page. The 'Data Enrichment' tab is selected. Under 'Field Conditions', the 'Share only Sys IDs listed' checkbox is checked, with a red arrow pointing to it. Below this, the 'Format Options' section shows a 'Table map' input field. At the bottom, the 'Related Links' section contains several links, with 'Legacy view' highlighted by a red arrow. The bottom navigation bar shows the 'Sys IDs' tab selected, with a 'New' button and a search field.

5. In the **Sys IDs** tab, click **New**. If using Google Chrome, you may see a popup asking if you want to leave the site—click **Leave**.
6. On the resulting page, type the **sys_id** for the first record you want to bulk share out in the **Record Sys ID** field.
7. Click **Submit**.
8. (Optional!!) Repeat steps 5-7 for any other record **sys_ids** you want to bulk share out.
9. Once you've added all **sys_ids**, click **Update**.

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Share database views with bulk share

This feature allows you to properly share database views with a bulk share. By default, bulk shares run by querying for records from the selected table in 1,000 record increments, with records ordered by **sys_id** in ascending order. This is done to minimize performance impact on the ServiceNow instance. However, the records of database views do not have **sys_ids** and therefore cannot be shared in the same way. In order to properly share database views with a bulk share, you need to query for all records from the view at once.

To do this, you need to specify the [glide.db.max_view_records](#) integer system property to a number above the records in your view. If this property is not set, it defaults to 10,000. A good number to use is 999,999.

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Limit the number of records shared

This feature allows you to limit the number of records shared once bulk share reaches a specific limit.

Here's how to turn it on:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to limit the number of records shared on.
3. In the resulting bulk share page, click the **Runtime Settings** tab, scroll to the **Runtime Behavior** section, and enter your desired record limit number in the **Limit number of records shared** field.
4. Then, scroll down and click the **Sys IDs** tab. This tab will only appear once you check the box from Step 3.
5. Click **Update**.

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Share updates since then

This feature allows you to share only records that have been inserted or updated since the last time the bulk share ran. This is useful for [Scheduled Bulk Shares](#) when you want to ensure you capture all records changed since the last execution of the bulk share.

Here's how to turn it on:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to configure.
3. In the resulting bulk share page, click the **Runtime Settings** tab, scroll to the **Triggers** section, and check the **Share updates since then** box.
4. Click **Update**.

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Share as archive

This feature will share archived records as regular table records as part of a bulk share, if and when there is an archived table for a specified table in the bulk share. If you choose to [share child records](#), it will also share the records from the archived child tables.

This feature is to be used with the [temporal feature](#) in the DataSync Agent (see step 3).

Here's how to enable share as archive:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to share archives for.
3. In the resulting bulk share page, use the **Table name** dropdown to select an archived table.
4. In the **Runtime Settings** tab, under the **Runtime Behavior** section, check the **Share as archive** box.
5. Click **Update**.



- Sharing additional records (i.e. attachments, journals, etc) are disabled
- "Insert Only" will be disabled if "Share as archive" is enabled
- Since archive tables do not retain table hierarchy (no parents or child tables), it stores one copy of the record to an archive leaf or child-most table. Therefore, "Include all child tables" and "Share base table" won't behave the same as sharing a regular table.

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Distribute bulk share workload

This feature allows you to distribute the work load of your bulk shares by allowing them to run on multiple nodes in your instance. This is useful if you're running multiple bulk shares or scheduled bulk shares, since they will run on the same node by default, and this could impact performance. If you use this feature, nodes will only be used if they are online and set to accept "any" scheduler.

Here's how to turn it on:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to configure.
3. In the resulting bulk share page, click the **Miscellaneous** tab, and check the **Advanced** box. This will reveal an **Advanced** tab.

The screenshot shows the 'Bulk Share - Documentation Example [Shared He20 Standard view*]' configuration page. The 'Miscellaneous' tab is selected and highlighted with a red box. Within this tab, the 'Advanced' checkbox is checked, indicated by a red arrow. Other visible elements include the 'Data Enrichment', 'Runtime Settings', and 'Scripting' tabs, and the 'Additional Settings' section with options like 'Include embedded images/videos', 'Include history set', 'Run as', and 'View name'. The 'Records per second' and 'Last share time' fields are also visible at the top.

4. Click the **Advanced** tab, and check the **Distribute bulk share workload** box.
5. Click **Update**.

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Multiple bulk share jobs

This feature allows you to choose the number of jobs (1, 2, 4, 8, or 16) it will take to process the bulk shared records. Each job will process a subset of the total records, split by **sys_id**.

Here's how to customize the number of jobs:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to configure.
3. In the resulting bulk share page, click the **Miscellaneous** tab, and check the **Advanced** box. This will reveal an **Advanced** tab (see [Distribute bulk share workload](#) for a screenshot).
4. Click the **Advanced** tab, and under the **Runtime Settings** section, use the **Number of Jobs** dropdown to select the number of jobs.
5. Click **Update**.



This feature is not compatible with the following bulk share features:

- Order by
- Share only Sys IDs listed
- Limit number of records shared
- Enable confirmation features

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Nodes to run on

This feature allows you to specify which node a bulk share will run on by referencing the **sys_cluster_state** table in ServiceNow. You need admin access (or a custom ACL rule) in order to see and set this value. You may want to run this feature in order to distribute the Perspectium processing across several nodes.

Here's how to specify nodes:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to configure.
3. In the resulting bulk share page, click the **Miscellaneous** tab, and check the **Advanced** box. This will reveal an **Advanced** tab (see [Distribute bulk share workload](#) for a screenshot).
4. Click the **Advanced** tab, and under the **Runtime Settings** section, use the **Node to run on** field to search for and select a node.
5. Click **Update**.

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Order by

This feature allows you to customize the order in which your records in bulk share are sent out by choosing which field (such as **Active**, **Updated**, **Created On** etc.) the records will be ordered by when sending out the records. For example, if you choose the **Created On** field, the bulk share will send the records in ascending order based on the date and time at which they were created. By default, bulk shares will order records by the **Sys ID (sys_id)** field when querying for records to share out.

Here's how to send records in a specific order:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to configure.
3. In the resulting bulk share page, click the **Miscellaneous** tab, and check the **Advanced** box. This will reveal an **Advanced** tab (see [Distribute bulk share workload](#) for a screenshot).
4. Click the **Advanced** tab, and under the **Runtime Settings** section, use the **Order by** dropdown to select the field for the records to be ordered by when shared.

5. Click **Update**.

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Share related lists

This feature allows you to share records from one or more related lists of the table being bulk shared. Here's how:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to configure.
3. In the resulting bulk share page, click the **Miscellaneous** tab, and check the **Advanced** box. This will reveal an **Advanced** tab (see [Distribute bulk share workload](#) for a screenshot).
4. Click the **Advanced** tab, and under the **Runtime Settings** section, check the **Share related lists** box. This will reveal a new **Related lists** field with a lock icon.

The screenshot shows the 'Advanced' tab of the Bulk Share configuration page. Under the 'Runtime Settings' section, the 'Share related lists' checkbox is checked. Below it, the 'Related lists' field is visible with a lock icon. A red arrow points to this lock icon. Other settings like 'Share schema', 'Share index', 'Enable confirmation', 'Order by', and 'Scheduled job priority' are also visible. On the right side, there are checkboxes for 'Enable debug logging', 'Distribute bulk share workload', 'Truncate before share', and 'Disable receipts', along with a 'Node to run on' dropdown and a 'Number of jobs' dropdown set to 4. At the bottom, there are 'Update', 'Execute Now', and 'Delete' buttons.

5. Click the lock icon next to the **Related lists** field to unlock the field. This will reveal an empty field and a search bar.

The screenshot shows the 'Share related lists' configuration dialog. It has a title bar with a green checkmark icon. Below the title, there is a section labeled 'Related lists' with a red asterisk icon. To the right of this section is a large empty text area. To the right of the text area is a vertical toolbar with icons for 'Close' (X), 'Info' (i), 'Add/Remove multiple' (plus and minus icons), and 'Lock' (lock icon). Below the text area is a search bar with a magnifying glass icon.

6. Use the search bar field to type your desired list, or click the search button to open all related lists of the table and select from there. Alternatively, you can click the **Add/Remove multiple** icon to add or remove multiple lists at once.
7. Click **Update**.

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Table replication in a subscribing instance

This feature allows you to create new tables in a subscribing ServiceNow instance by sharing a schema from one instance to another. This will create the table, field types, choices, labels, values, as well as the following:

- Table sys IDs, columns, and the selection for choice fields
- ACLs
- Other table information, such as extends, auto-number, application process, etc.

Upon receiving the schema message, the table will be created in the instance and a generic subscribe record will be created to allow for replication of any records that come with the table schema.

Here's how to use share schema to replicate tables in a subscribing instance:

1. In your sharing ServiceNow instance, go to **Perspectium > Perspectium Core > Shares > Bulk Share > View Bulk Shares**.
2. Find and click into the bulk share (the clickable timestamp) that you want to share the schema for.
3. In the resulting bulk share page, click the **Miscellaneous** tab, and check the **Advanced** box. This will reveal an **Advanced** tab (see [Distribute bulk share workload](#) for a screenshot).
4. Click the **Advanced** tab, and under the **Runtime Settings** section, check the **Share schema** box. This will reveal a **Target application** dropdown.

The screenshot shows the 'Advanced' tab of a bulk share configuration. It has tabs for 'Data Enrichment', 'Runtime Settings', 'Scripting', 'Miscellaneous', and 'Advanced'. The 'Data Enrichment' section includes options for 'Enable data obfuscation', 'Add display value language', and 'Change to DV tag suffix', all with unchecked checkboxes. The 'Runtime Settings' section includes a 'Share schema' checkbox which is checked, and a 'Target application' dropdown menu currently set to 'DataSync Agent'. A red rectangle highlights the 'Share schema' checkbox and the 'Target application' dropdown.

5. Select **ServiceNow** from the **Target application** dropdown.
6. Click **Update**.

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Click for additional features that apply to both bulk shares and dynamic shares.