Custom Target Database Schema using Table Maps

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By default, data replicated from existing tables will automatically create the same schema at the replicated database. The targeted database schema of replication needs to be flexible and customized in certain situations, such as:

- An existing schema that the replicated data need to fit in
- A need to rename the field names or transform the field values using script at the source
- The resulting field types need to be modified to a specific type or field length

Customizing target database schema can all be done by using table maps in your dynamic share or bulk share.

Prerequisites

⚠️ You will need to install DataSync for ServiceNow, run the Finish Install scripts, and set your initial Perspectium & Replicator properties.

Procedure

To customize your **target database schema** using **table maps**, complete the procedures below:

1

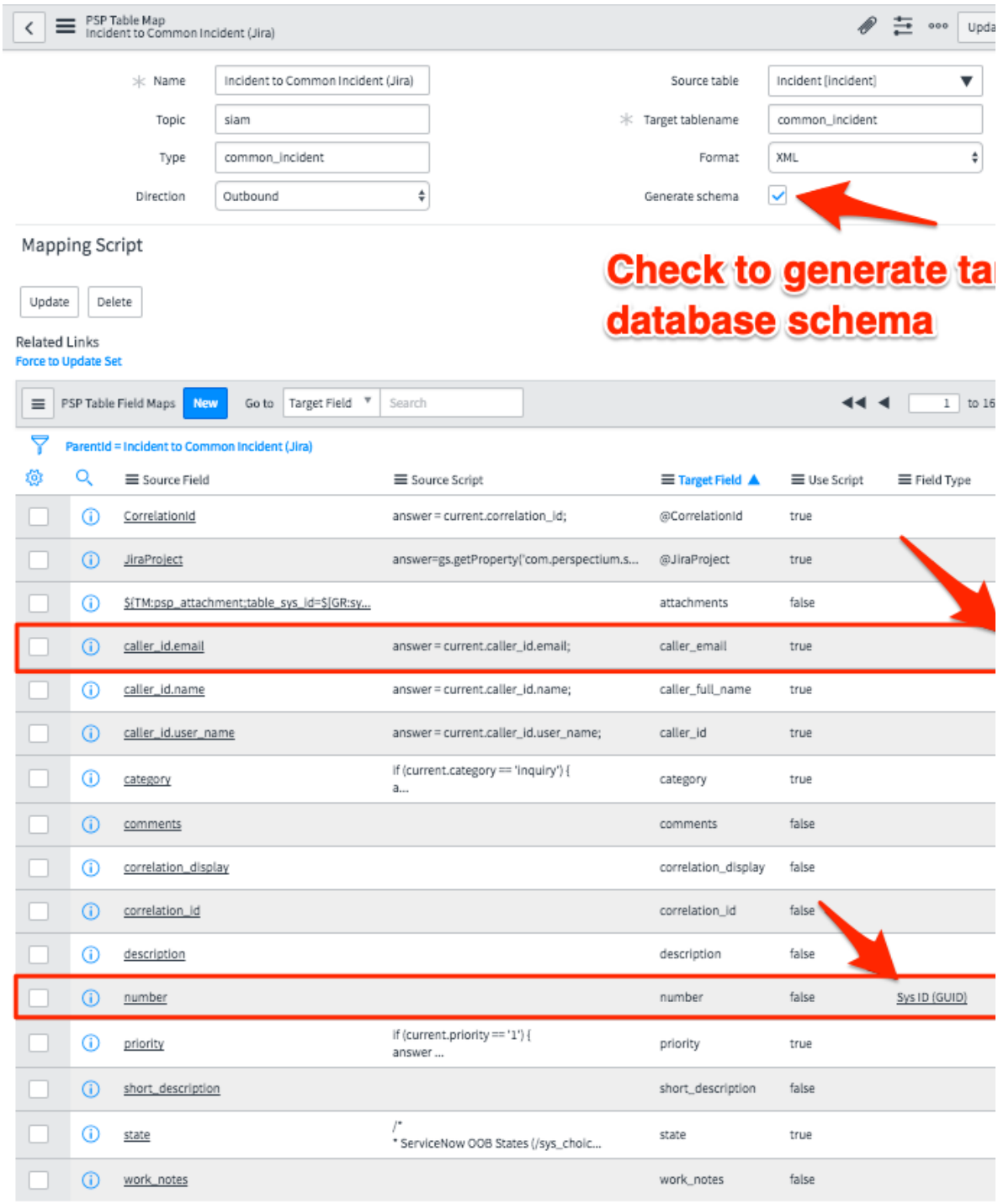
Define a table map with schema support

Log into your sharing ServiceNow instance and navigate to **Perspectium** > **Control and Configuration** > **Table Maps**. Select the table map you want to use, in this example, select **Incident to Common Incident.** Then, check the **Generate schema** box.

NOTE:

- Checking the **Generate schema** box is required in the initial sharing of your records.
- Specifying **Field Type** and **Field Length** is optional except for designating at least one field as **Sys ID (GUID)**. This is required for the target database table to be created and queried for updates and deletes.
- The value specified in the **Target table name** field will be used as the name of the table in the database.

⚠️ **WARNING**: If there are multiple table maps with the same **Target table name**, the agent will return the first record when querying against ServiceNow for the schema.



2

Share the table map output

Create a dynamic share or bulk share and select the table map you altered in the **table map** field. The generated payload can be subscribed by an agent and the schema created dynamically.

The **common incident** example will result in the following table schema to be created if consumed by a database agent for MySQL:

```
mysql> describe common_incident;
+---------------------+--------------+------+-----+---------+-------+
| Field               | Type         | Null | Key | Default | Extra |
+---------------------+--------------+------+-----+---------+-------+
| state               | mediumtext   | YES  |     | NULL    |       |
| short_description   | varchar(160) | YES  |     | NULL    |       |
| description         | mediumtext   | YES  |     | NULL    |       |
| priority            | mediumtext   | YES  |     | NULL    |       |
| attachments         | mediumtext   | YES  |     | NULL    |       |
| category            | mediumtext   | YES  |     | NULL    |       |
| correlation_id      | varchar(100) | YES  |     | NULL    |       |
| number              | varchar(40)  | YES  |     | NULL    |       |
| correlation_display | varchar(100) | YES  |     | NULL    |       |
| caller_id           | mediumtext   | YES  |     | NULL    |       |
| caller_email        | varchar(100) | YES  |     | NULL    |       |
| caller_full_name    | mediumtext   | YES  |     | NULL    |       |
| comments            | mediumtext   | YES  |     | NULL    |       |
| sys_id              | varchar(224) | NO   | PRI |         |       |
| work_notes          | mediumtext   | YES  |     | NULL    |       |
+---------------------+--------------+------+-----+---------+-------+
15 rows in set (0.00 sec)
```

NOTE: Even though we specified the **number** field as the required **Sys ID (GUID)** field in the **table map**, the **number** field does not become the **GUID**. Instead, the **sys_id** field is created as **GUID (PRI key)** and contains **number** values to be used for lookup during updates/deletes. This is consistent with replicating database views.

Similar topics

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- Database indexes
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- DataSync for ServiceNow (Replicator)
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