Metalogix® Replicator 7.4

September 2023

Redirecting Replicator to Specific Targets

Metalogix Replicator 5.0 introduced the ability to redirect SharePoint events to specific replication targets based on rules. This article describes the configuration steps required to use this feature. It is important to note that this feature only replicates changes to a subset of the original map family's targets. When creating your groups and connections, ensure the default group for the map family includes all possible targets for your replication requirements. You can then use replication rules to determine which groups and connections to replicate SharePoint changes to.

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Sample Replicator Configuration

The examples in this document use a Replication Network where all SharePoint changes are replicated bidirectionally between all web applications using a Map Family with the Branch Offices Group. Additional groups exist for limiting replication to only branch offices in either the American or European regions.

Branch Offices Replication Group Members

All Replication Connections are members of the Branch Offices group. Any map families using this group replicate events bidirectionally to the Corporate and branch portals. In the following sections, the map family for the rules is configured to use this group.

American Offices Replication Group Members

Connections between the Corporate and New York branch portals are members of the American Offices group. Any map families using this group replicate events bidirectionally between these web applications.

European Offices Replication Group Members

Connections between the Corporate, London, and Paris branch portals are members of the European Offices group. Any map families using this group replicate events bidirectionally between these web applications.

Redirecting to Selected Connections

Before creating a rule that redirects events to targets, you must first configure Replicator as described in the *Metalogix Replicator Quick Start Guide*. Once the Replication Map Family is created, you can create a rule that redirects events as follows:

1. In Central Administration, open **Application Management**, and then under Metalogix Replicator, select **Manage map families**.

2. For the map family where you want to create the rule, click **View Maps**.

3. If you want to create a rule for a specific site collection or web site under the root replication URL, then expand the **Map Hierarchy** and select the map where you want to apply the rule. By default, the rule is applied to the map you select and any of its children. If you want this rule to apply to all maps in the map family, then skip this step.

4. To the right of the Replication Map, select **Rules**.

5. On the Manage Replication Rules page, click **Add Rule**. This starts the Configure Replication Rule wizard.

6. Specify the rule's general settings as appropriate for your replication needs.

    Rule Name:

    | Redirect Documents for Americas Region |

    Description:

    | Only replicate documents marked for the Americas region to American Branch Offices. |

    Process Order for this Rule:

    | 1 |

    Apply this rule to events originating on:

    | http://corporateoffice |

    Process this rule on:

    | Outbound events |

    Use this Rule on:

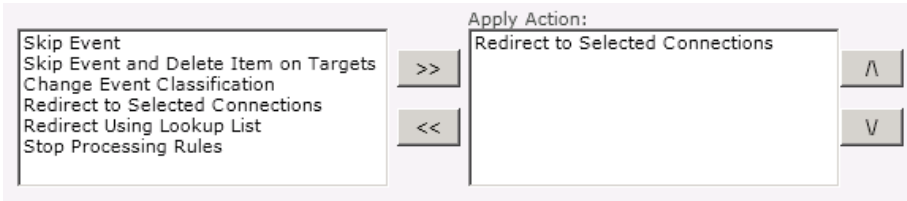 | Captured and Queued Events |

7. Select the rule conditions that you want to match on. For example, if you want to apply this rule to a specific column, "Region", in a specific library, "HR Documents", then select both the **List Name** and **List Item Column** conditions.
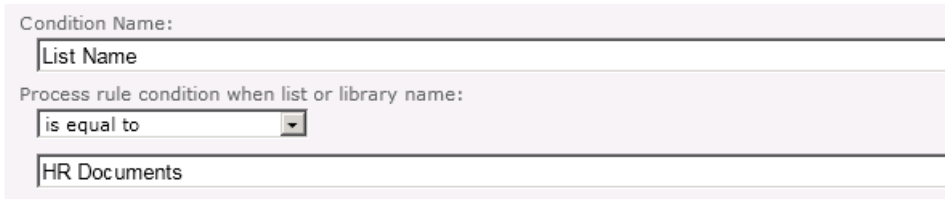
    List Name
    List Item Column
    List Item Content Type

    Match on:
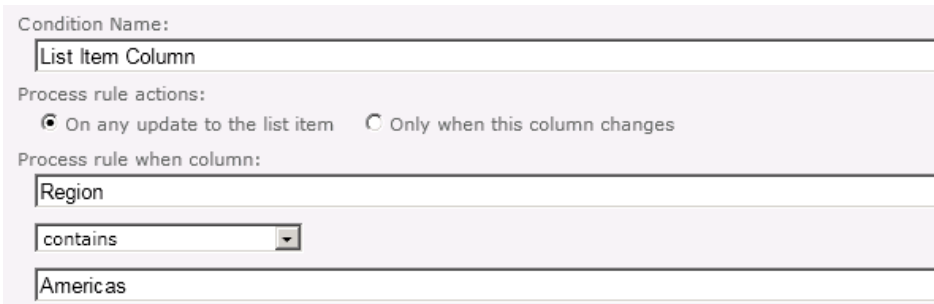   List Name
    List Item Column

    >>
    <<
    ∧
    ∨

8. Select the rule actions you want to perform on events that match the rule conditions. To define the specific targets to replicate matching documents to, select **Redirect to Selected Connections**.

9. Click Next to configure the conditions.

10. Configure the rule conditions as required to identify the list items you want to redirect. For example, to match list items from the HR Document library, configure the List Name condition as follows:
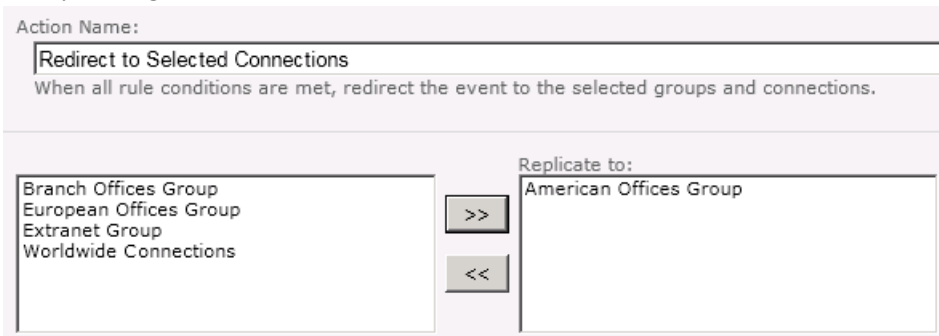

Also, to match list items with a "Region" of "Americas", configure the List Item Condition as follows:

All of a rule's conditions must be met to process its actions. In our case, the list item must be in the "HR Documents" library and its Region value must be "Americas".

Click **Next** to configure each condition. After configuring the last condition, click **Next** to configure the actions.

11. Configure the rule actions as required to meet your replication needs. For the Redirect to Selected Connections action, select the groups and connections to replicate matching list items to. For example, to replicate matching list items using connections in the American Offices Group, configure the action as follows:

Click **Next** to configure each action. After configuring the last action, click **Next** to review and create the rule.

12. On the Rule Summary page, review the rule's configuration. Click **Finish** to create the rule.

After creating the rule, all subsequent events will be matched against the rule's conditions. Events matching all of the defined conditions will have the rule's actions performed on them. Events that do not meet the rule's conditions will be replicated using the default map family settings.

In the example we used, documents with a "Region" value of "Americas" will only be replicated from the Corporate Portal to the New York Branch Portal. Documents with any other "Region" value would be replicated to all connections in the Branch Offices Group.

For more information on the available conditions and actions for rules, see the *Metalogix Replicator Reference Guide*.

At this point, we could configure a second rule that matches "Region" values of "Europe", but a better solution would be to create a single rule that matches the "Region" value against a lookup list and redirects the event to the appropriate targets. The following section explains this configuration.

Redirecting to Targets Using a Lookup List

In environments where there are many groups or connections that you will redirect events to, it is simpler to create a lookup list that is used by Replicator to determine which targets to replicate list items to. This section describes the tasks you must perform to configure Replicator to replicate to targets based on a lookup list.

Before creating the lookup list or rule that redirects events to targets, you must first configure Replicator as described in the *Metalogix Replicator Quick Start Guide*. Once the Replication Map Family is created, you can create the lookup list and rule. This ensures the lookup list is replicated to the other web applications as well.

Creating a Lookup List

To create a lookup list:

1. Create a new list in the web site you are replicating or any of its subsites.

2. Add columns to the list to store the names of the Replication Groups and Replication Connections to redirect events to.

3. Add list items matching a value from the lists you are replicating to the groups and connections you will use to determine the targets. For example, we will use the following list to redirect events.

Target Name	Target Group	Target Connection
Global	Branch Offices Group	
Europe	European Offices Group	
Americas	American Offices Group	
New York		Corporate to New York
Paris		Corporate to Paris
London		Corporate to London

Once the list has been created, you can then create the rule. Note that the contents of this list can change and Replicator will dynamically adjust its targets based on the contents of the lookup list.

Creating a Rule that Uses the Lookup List

Before creating a rule that redirects events to targets, you must first configure Replicator as described in the _Metalogix Replicator Quick Start Guide_. Once the Replication Map Family is created, you can create a rule that redirects events as follows:

1. In Central Administration, open **Application Management**, and then under Metalogix Replicator, select **Manage map families**.

2. For the map family where you want to create the rule, click View Maps.

3. If you want to create a rule for a specific site collection or web site under the root replication URL, then expand the **Map Hierarchy** and select the map where you want to apply the rule. By default, the rule is applied to the map you select and any of its children. If you want this rule to apply to all maps in the map family, then skip this step.

4. To the right of the Replication Map, select **Rules**.

5. On the Manage Replication Rules page, click **Add Rule**. This starts the Configure Replication Rule wizard.

   Rule wizard.

6. Specify the rule's general settings as appropriate for your replication needs.

7. Select the rule conditions that you want to match on. For example, if you want to apply this rule to any list with a Region column, then select **List Item Column** condition.

8. Select the rule actions you want to perform on events that match the rule conditions. To define the specific targets to replicate matching documents to, select **Redirect Using Lookup List**.

9. Click Next to configure the conditions.

10. Configure the rule condition as required to identify the list items you want to redirect. For example, configure the rule to check if the column ☐Region☐ exists.

All of a rule's conditions must be met to process its actions. In our case, the column name ☐Region☐ must exist for the rule to be processed.

Click **Next** to configure the condition, then click **Next** to configure the actions.

11. Configure the rule actions as required to meet your replication needs. For the Redirect Using Lookup List action, select the lookup list and its columns to use for redirecting replication. For example, to use the list we created earlier, configure the action as follows:

12. Under Lookup Conditions, on the same page, add conditions that match the lookup list columns with the corresponding columns in your content lists.

Click **Next** to configure each action. After configuring the last action, click **Next** to review and create the rule.

13. On the Rule Summary page, review the rule's configuration. Click **Finish** to create the rule.

After creating the rule, all subsequent events will be matched against the rule's conditions. Events matching all of the defined conditions will have the rule's actions performed on them. Events that do not meet the rule's conditions will be replicated using the default map family settings.

In the example we used, documents and items in any list containing a Region column are replicated to targets based on the value in their "Region" column. Any other list items in the site are replicated to all connections in the Branch Offices Group.

Creating an "And" condition using two or more conditions in Lookup List

If you want to compare two or more columns in the replicated list, with columns in the Lookup list to create an "And" condition to redirect the replication, you can use Add Condition to add more conditions.

In the following example the rule will scan the lookup list for entries that match the value of the TargetVesselType and TargetFlag fields on the replicated item with the VesselType and VesselFlag in the look up list to identify the group and or connection to redirect replication to.

Creating an "Or" condition using two or more Redirect Using Lookup List actions in the rule

If you want to create a rule that redirects using an "Or" condition, add two Redirect Using Lookup List actions to the rule.
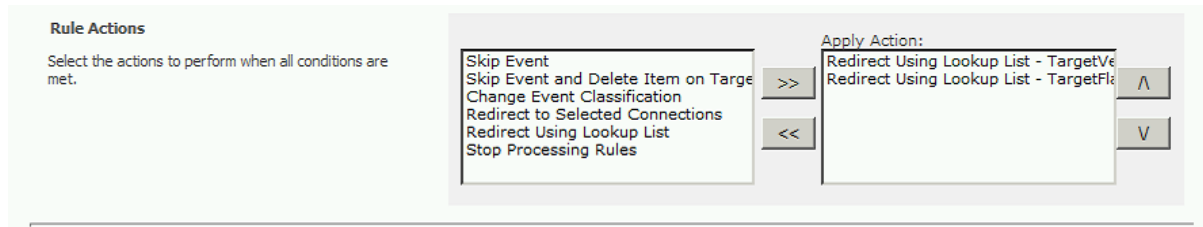
The two actions will be evaluated separately and the resulting target connections will be joined togther in an Or statement.

For more information on the available conditions and actions for rules, see the *Metalogix Replicator Reference Guide*.