

Prioritizing Replicator Events

Article 11120503-01

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Summary

Classifications are the means by which priority queuing is set up. This Knowledge Base article details information about Classifications and how they can be used to prioritize replication events. Furthermore, it will describe how classifications can be customized, through the use of the Manage Classification page, accessed through Central Administration, and how they can be applied via the Map Family settings and the application of Rules.

The following table details the ways in which prioritizing replication can be customized and applied in various scenarios.

Type of Prioritization	Action
Prioritize one list item or document ahead of another in the same list or library.	Create a rule with conditions that identify the list and list item and an action to change the classification of matching items.
Prioritize the contents of one list or library ahead of other lists or libraries.	Create a rule with a condition identifying the list and an action to change the classification of matching items.
Prioritize the contents of one web site ahead of other web sites in the same web application.	Disable replication for the specific web site's Replication Map. Then create a new Map Family specifically for that web site with a different default classification.

Classification Overview

The manage classifications page is accessed from the Central Administration Application Management page. This page details all the classifications that have been configured for a web

application. The default classifications are High, Normal and Low. Normal is designated as the default event classification for all map families.

Classifications work to form queues for replicated items. The queue number identifies a unique queue that is processed independently from the other queues. Items in each queue are processed in the order they occur, but you can change this ordering by changing the queue for specific events.

Microsoft SharePoint 2010 Central Administration > Manage Classifications
Use this page to add, modify and delete classifications.

[Add Classification](#) | [Delete Classification](#) | [Set as Default for new Map Families](#)

	Unique Identifier	Name	Queue Number	Use Secondary URL	Map Family Default Event Classification
<input type="checkbox"/>	1	High	1	False	False
<input type="checkbox"/>	2	Normal	2	False	True
<input type="checkbox"/>	3	Low	3	False	False

[Recycle Bin](#)
[All Site Content](#)

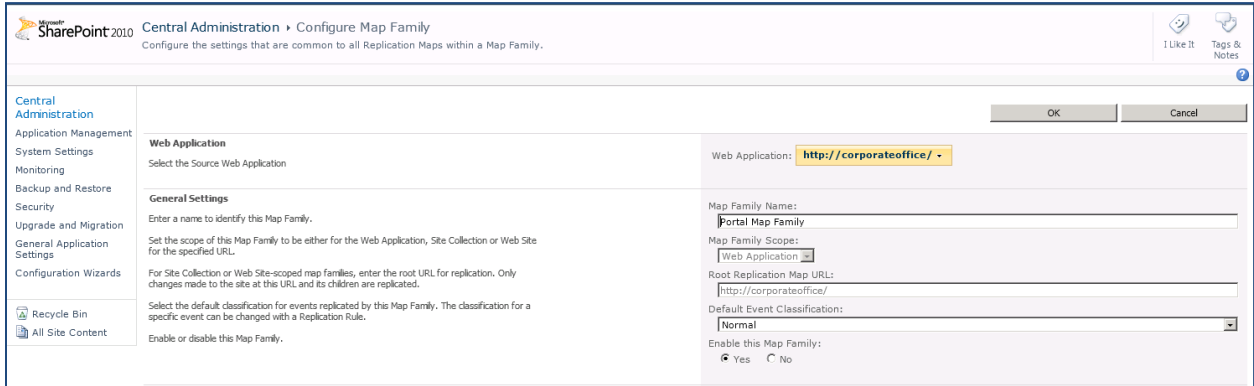
Queue

Queues can be likened to service lanes in an airport. There is the regular check-in lane, the equivalent of the Normal classification, and there is the express lane for elite members, the equivalent of the High classification. Since most events use the default Normal classification, the other queues have relatively fewer events. A new event entering a shorter queue is more likely to be processed and transferred earlier than if it entered the default queue.



Map Family Classification Setup

The default event classification is set up at the Map Family configuration level. This classification is then assigned to all events that occur within this map family. The default classification is Normal, which is queue number 2.



SharePoint 2010 Central Administration > Configure Map Family
Configure the settings that are common to all Replication Maps within a Map Family.

Web Application: **http://corporateoffice/**

General Settings

Map Family Name: **Portal Map Family**

Map Family Scope: **Web Application**

Root Replication Map URL: **http://corporateoffice/**

Default Event Classification: **Normal**

Enable this Map Family: Yes No

To change the classification for an event from this default event classification, a rule must be created. A rule can be created in order to assign a classification of High, which is queue 1, or classification of Low, which is queue 3, to any specific event which you do not want to behave at the defaulted Normal classification level.

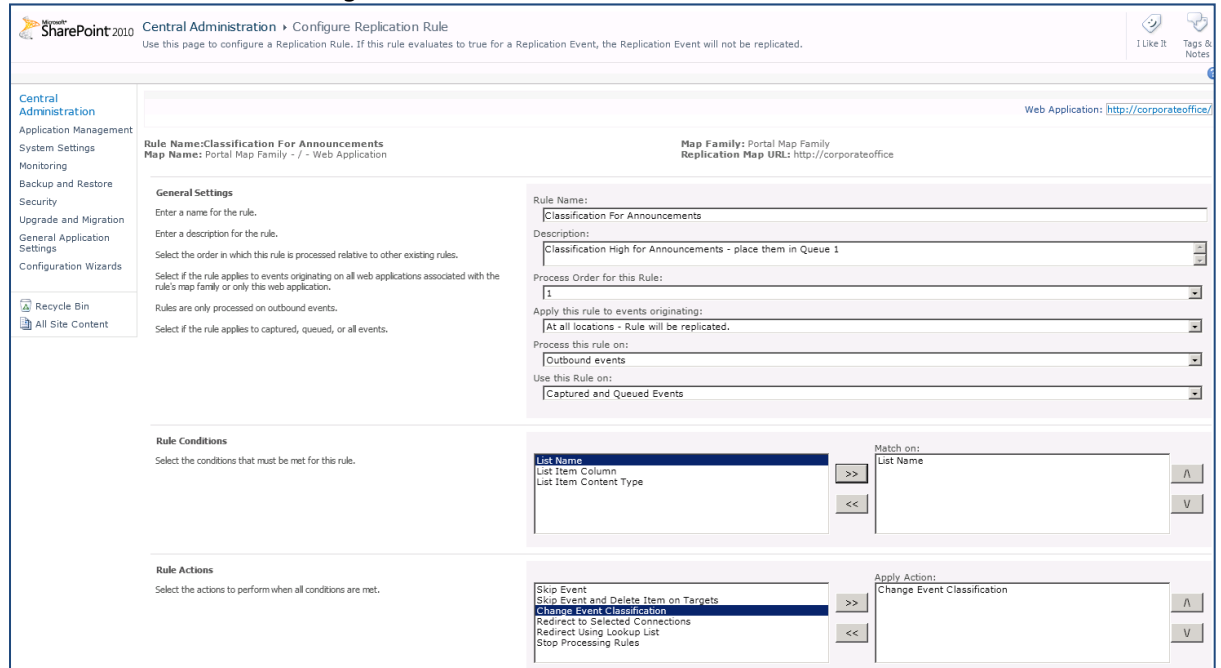
Rule Setup

Rules can be set up to change the default classification for particular list items and documents. This can prioritize their replication ahead of other events that occurred earlier.

The following rule example places all items in the Announcements list on both the target and source web applications in the high priority queue. This can expedite replication for announcements.

1. Select rule conditions that identify the list items to reclassify and select the rule action "Change Event Classification". Change Event Classification is the rule action that changes

the classification for matching items. Click OK to continue.



SharePoint 2010 Central Administration > Configure Replication Rule

Use this page to configure a Replication Rule. If this rule evaluates to true for a Replication Event, the Replication Event will not be replicated.

Web Application: <http://corporateoffice/>

Rule Name: Classification For Announcements
Map Name: Portal Map Family - / - Web Application
Map Family: Portal Map Family
Replication Map URL: http://corporateoffice

General Settings

Enter a name for the rule.
Enter a description for the rule.
Select the order in which this rule is processed relative to other existing rules.
Select if the rule applies to events originating on all web applications associated with the rule's map family or only this web application.
Rules are only processed on outbound events.
Select if the rule applies to captured, queued, or all events.

Rule Name: Classification For Announcements
Description: Classification High for Announcements - place them in Queue 1
Process Order for this Rule: 1
Apply this rule to events originating: At all locations - Rule will be replicated.
Process this rule on: Outbound events
Use this Rule on: Captured and Queued Events

Rule Conditions

Select the conditions that must be met for this rule.

List Name
List Item Column
List Item Content Type

Match on: List Name

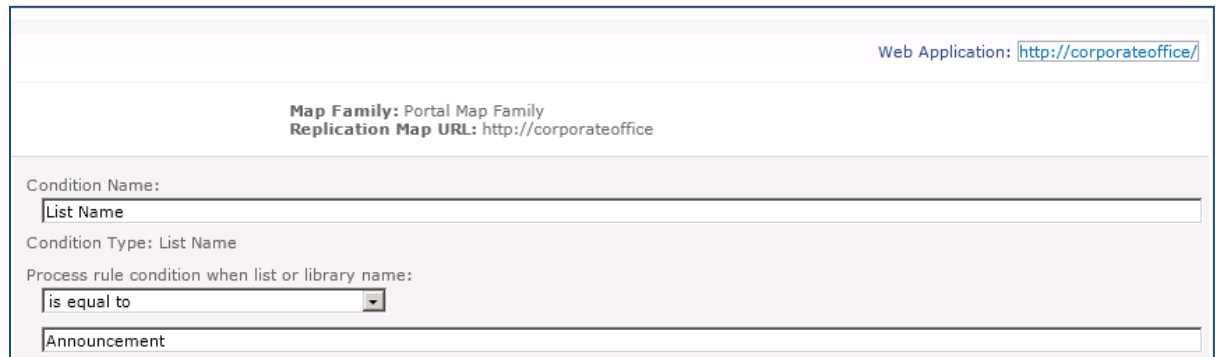
Rule Actions

Select the actions to perform when all conditions are met.

Skip Event
Skip Event and Delete Item on Targets
Change Event Classification
Redirect to Selected Connections
Redirect Using Lookup List
Stop Processing Rules

Apply Action: Change Event Classification

- Specify the rule conditions that identify the list items you want to change classifications for. In our example, we configure the condition to match the Announcements list by name.

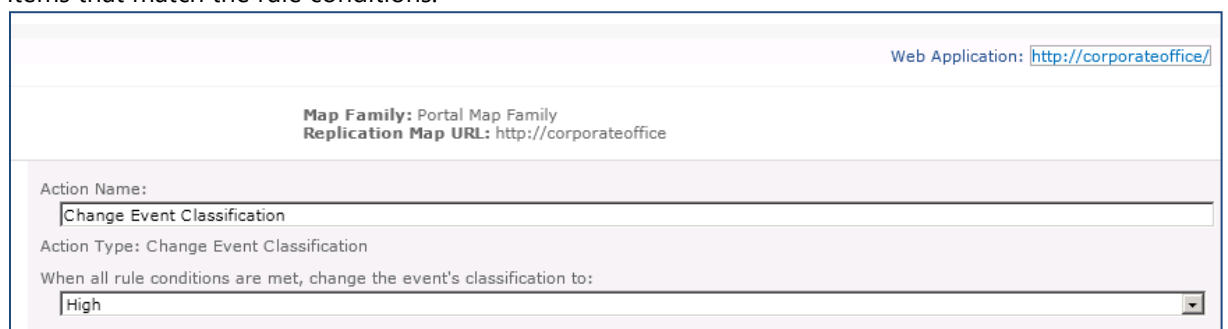


Web Application: <http://corporateoffice/>

Map Family: Portal Map Family
Replication Map URL: http://corporateoffice

Condition Name: List Name
Condition Type: List Name
Process rule condition when list or library name: is equal to
List Name: Announcement

- On the Change Event Classification action, select the classification you want to use for items that match the rule conditions.



Web Application: <http://corporateoffice/>

Map Family: Portal Map Family
Replication Map URL: http://corporateoffice

Action Name: Change Event Classification
Action Type: Change Event Classification
When all rule conditions are met, change the event's classification to: High



Best Practices

Replicator normally manages dependencies, organizing sequences to ensure that events are applied in the order they originally occurred. For example, if a list is created and then a document is added to the list, replication must occur in this order – otherwise there will be no list on the target for the document to be added to.

Classifications provide users with a way to apply events out of sequence. Users need to be careful when prioritizing events with sequence, as the management of dependencies is now on the Replicator administrator, and not on Replicator.



Publication Date

April 4, 2012

Applies To

- Metalogix Replicator for SharePoint version 5.0

Keywords

Replicator, Configuration, Prioritizing

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