

FIM PORTAL TROUBLESHOOTING

Default RCDC Definitions Broken After FIM
Service Configuration Migration

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Topics

- Symptoms
- Default RCDC Background
- Resolution Options
- Problem Prevention
- Additional Information

SYMPTOMS

Symptoms

- Viewing the object type in the Portal returns an error

- “There’s an error in the <Resource Type Name> display configuration. Please contact your system administrator.”

- Forefront Identity Manager event log error

The Resource Management Portal detected an error using the Resource Control Display Configuration (RCDC). This prevented the portal from displaying the object as expected and the portal switched over to Admin View.

The failure is due to a incorrect configuration file. The file does not validate against the configuration file schema.

Verify that the configuration file is valid XML and matches the configuration file schema. Either upload a new file or modify the existing file in the Resource Management Portal directory. Afterward, reset IIS.

- Resource Type displayed in “Admin View”



DEFAULT RCDC BACKGROUND

Default RCDC Background

- RCDC definitions for default Resource Types referenced by GUID by the FIM Portal
- Replacement (Delete /Add) of the RCDC replaces the default GUID

Common ways to Cause the Problem

- RCDC is replaced during the FIM Service configuration migration
- RCDC was deleted in the Portal and recreated

RESOLUTION OPTIONS

Resolution Options

- Re-migrate the FIM Service configuration
 - Target a “Clean” FIMService database
 - Ensure Join criteria attributes match between Source and Target
 - Re-run the FIM Service configuration migration
- Contact FIM Support for other options
 - FIM Support has a product group provided option that is unsupported except through support
- Long Term
 - The FIM product group is investigating a long-term fix to this problem

When fixing this problem on a system where it is not practical to re-migrate the configuration to a blank FIMService database, this is when we recommend contacting support.

PROACTIVE AVOIDANCE

When migrating the FIM Service configuration

Proactive Avoidance – Config Migration

- RCDC (OVC) Join Rule Attributes
 - DisplayName
 - AppliesToCreate
 - AppliesToEdit
 - AppliesToView
- Any change to one of these attributes will cause the RCDC to be replaced
 - Display Name Modification is most common currently
- Check the policy “Change.xml” file for any Deletes and Adds for default RCDC objects
 - Text search by Name or GUID (see slide “Default RCDCs”)

Policy “Change.xml” File

- **RCDC (OVC) Delete Entry**

```
<ImportObject>
```

```
  <TargetObjectIdentifier>urn:uuid:cc802776-9127-400d-ae2-  
1b43d538d01e</TargetObjectIdentifier>
```

```
  <ObjectType>ObjectVisualizationConfiguration</ObjectType>
```

```
  <State>Delete</State>
```

```
</ImportObject>
```

- cc802776-9127-400d-ae2-1b43d538d01e

- Default GUID for RCDC “Configuration for User Editing”

Policy “Change.xml” File – cont.

- **RCDC (OVC) Add Entry**

```
<ImportObject>
  <SourceObjectIdentifier>urn:uuid:cc802776-9127-400d-ae2-
1b43d538d01e</SourceObjectIdentifier>
  <ObjectType>ObjectVisualizationConfiguration</ObjectType>
  <State>Create</State>
  <Changes>
    ...
    <ImportChange>
      <Operation>None</Operation>
      <AttributeName>DisplayName</AttributeName>
      <AttributeValue>_sjkConfiguration for User Editing</AttributeValue>
      <FullyResolved>true</FullyResolved>
      <Locale>Invariant</Locale>
    </ImportChange>
```

- Display Name Changed, but it could also have been any of the other three attributes in the Join rule:
 - AppliesToCreate
 - AppliesToEdit
 - AppliesToView

All attributes defined in the join rule must match for the object to be updated rather than replaced. If the objects are not found to match according to the join rule defined, the object in the Target system will be deleted, and the object from the Source system will be added as a Create operation.


Each Create operation creates a new unique GUID for use as the Resource Guid of the newly created object.



ADDITIONAL INFORMATION

Review – Resource ID in the Portal

- How to Retrieve a Resource ID in the FIM Portal

- View the object attributes in the Portal
- Click the Clipboard icon  to copy the URL for the dialog
- Paste the URL into Notepad
- Copy the GUID referenced in the URL

http://FIMService01/identitymanagement/aspx/customized/EditCustomizedObject.aspx?id=cc802776-9127-400d-ae2-1b43d538d01e&type=ObjectVisualizationConfiguration&display=Configuration%20for%20User%20Editing&_p=1

- How to Search by Resource ID in the FIM Portal

- Navigate to the FIM Home page or the Administration page
- Paste the GUID into the “Search for” text box
- Set “Search within” to “Search Resources by Resource ID”

Errors Returned in Config Migration

- Any errors or warnings returned in the PowerShell window are not written anywhere else
- Copy and paste all errors and warnings from the PowerShell window into a text file
 - Do this for each .ps1 run so we have a record

Tips for Troubleshooting Config Migration

- Always save the following during a configuration migration
 - Pilot_Schema.xml
 - Production_Schema.xml
 - Pilot_Policy.xml
 - Production_Schema.xml
 - Changes.xml
 - Both from Schema and Policy
 - Undone.xml
 - Both from Schema and Policy
 - May be multiple copies depending on how many times we run ResumeUndoneImports.ps1
 - Text files containing warnings and errors for each *.ps1 run

The reason we want to keep these files is for troubleshooting in case a problem crops up. These files are very helpful to have when calling support to troubleshoot this type of problem.

FIM Configuration Migration Resources

- TechNet Reference for Forefront Identity Manager
 - Configuration Migration Deployment Guide
 - Under Deployment in the FIM TechNet Guide
 - [http://technet.microsoft.com/en-us/library/ee534906\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/ee534906(WS.10).aspx)
 - Windows PowerShell Configuration Tools for FIM 2010
 - Under Technical Reference in the FIM TechNet Guide
 - [http://technet.microsoft.com/en-us/library/ff394140\(WS.10\).aspx](http://technet.microsoft.com/en-us/library/ff394140(WS.10).aspx)

Default RCDCs

Default Name	Default GUID
Configuration for Approval Viewing	165182c3-a61b-42c2-b2f5-0610f3dd84a
Configuration for Attribute Type Description	7552d4a0-6ebd-4123-b7a8-9c7f54d5bc65
Configuration for Binding Description	e10a04a3-0fce-4421-80ad-63f472e49b8f
Configuration for Constant Specifier	9fc03ab1-1bc8-4a4e-b8f6-94f59dfb0812
Configuration for Domain Configuration	9243730c-7a1b-4e3c-8f6c-c4e366dd0110
Configuration for Email Template	02910881-421b-4b5e-8e9a-63c2f04099fd
Configuration for Filter Permission	5413b00a-e999-4459-bb9a-5f33f74bacaf
Configuration for Flow Definition PopUp	8aa67dca-8824-4d32-96d2-3f21ed1239f2
Configuration for Forest Configuration	e808a4fa-fcb4-478a-98d2-f5172035d80
Configuration for Group Creation	a32dec19-9505-4c8b-b8c4-b26f3932d773
Configuration for Group Editing	6753e552-5038-45b5-b6e6-15091c7407bb
Configuration for Group Viewing	e50958e2-b85a-4cb4-a683-b95527ca2280
Configuration for Home Page Resource	01154346-5918-4b63-a869-22fd3fdafc66
Configuration for Management Policy Rule Creation	3c63462f-78e3-45d7-94c3-83a3d084493c
Configuration for Management Policy Rule Editing	f1a0659f-d183-4859-8293-c7766d70afc9
Configuration for Management Policy Rule Viewing	d41efc7e-c33b-41d0-92ab-2d227913eef3
Configuration for Management Policy Rules Explorer	0565e5f1-0d89-485d-9a23-d8208ff22de3
Configuration for Navigation Bar Resource	e85f0df3-e2eb-4763-b0ff-f2331cc66e59
Configuration for Request	46729b85-96b8-49ee-ac5b-64b4ccc04fb6
Configuration for Resource Control Display Configuration Creation	861c45a4-d507-4c11-91db-bdb68bb3af73
Configuration for Resource Control Display Configuration Editing	b7fed8bd-f993-4342-8849-cc59f4210bac
Configuration for Resource Control Display Configuration Viewing	4b0b1d6d-6307-467a-bb5e-3e92b90c9cd8
Configuration for Resource Type Description	261b5990-aa02-4875-92ab-86faa5f879b
Configuration for Search Scope	b4b6a761-892d-4285-b17d-74dbf5a15986
Configuration for Set Creation	7d3fa1ba-36d3-4989-a2e6-4e3cbe1bf40d
Configuration for Set Editing	967c0272-9b2e-46c4-895d-4cd10387442e
Configuration for Set Viewing	7d3fa1ba-36d3-4989-a2e6-4e3cbe1bf40e
Configuration for Synchronization Rule	ecbfff780-511b-45da-85fe-65cbf236d80f
Configuration for Synchronization Rule Viewing and Editing	8aa59dca-7759-4d32-96d2-3f21ed1239f2
Configuration for User Creation	03707f4c-45a2-4906-b24a-0254faa4fc09
Configuration for User Editing	cc802776-9127-400d-aae2-1b43d538d01e
Configuration for User Viewing	f241e254-8f89-4d00-984f-0b75e8193428
Configuration for Workflow Definition Creation	bed9e2ac-e97e-4d00-a294-96405b26e6d3
Configuration for Workflow Definition Editing	ac01bffb-8d54-4b53-a034-74e7e0e293fb
Configuration for Workflow Definition Viewing	611748f3-87d8-4301-bba7-c2a2da089dba



QUESTIONS?