StruxureWare Building Operation

TAC I/A Series Migrator Guide

F-27741-3
August/2014

Schneider Electric

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Reference

The Reference part contains conceptual information, procedures, user interface descriptions and troubleshooting information. If you want more information, see WebHelp or the other Building Operation Reference Guides.

1 Overview

Topics

TAC I/A Series Conversions Tool
GCM and Signal Database Backup
NETWORK 8000 System Integration to Building Operation
NETWORK 8000 Device Support in Building Operation
NETWORK 8000 Attribute to Property Name Differences in Building Operation
NETWORK 8000 Data Not Migrated to Building Operation
Replaced NETWORK 8000 Block Characters
Additional Objects for Converted Schedule Blocks
MN Block Conversion
LCM Exception Routing
Configuring LCM Exception Routing
Configuring LCM Print Groups

1.1 TAC I/A Series Conversions Tool

The Web-based TAC I/A Series® Conversions Tool is used to convert a GCM® backup file into a file that can be imported into an Automation Server, which replaces the GCM. The Tool is also used to convert a Signal® database to an Enterprise Server database. When you are doing this type of migration, you provide the Signal database as well as the entire set of GCM databases to be converted.

For more information, see section 1.2 “GCM and Signal Database Backup” on page 13.

The TAC I/A Series Conversions Tool web pages are available through the iPortal website. After Tool processes the GCM and Signal backup files and generates XML import files, you can download the files and the reports to your WorkStation PC.

TAC I/A Series Conversions Tool also generates reports that provide information about the migration process for each Signal and GCM database converted. For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

This chapter contains information on the TAC I/A Series Conversions Tool. See Building Operation WebHelp for more information on how to import and use GCM data in Building Operation.

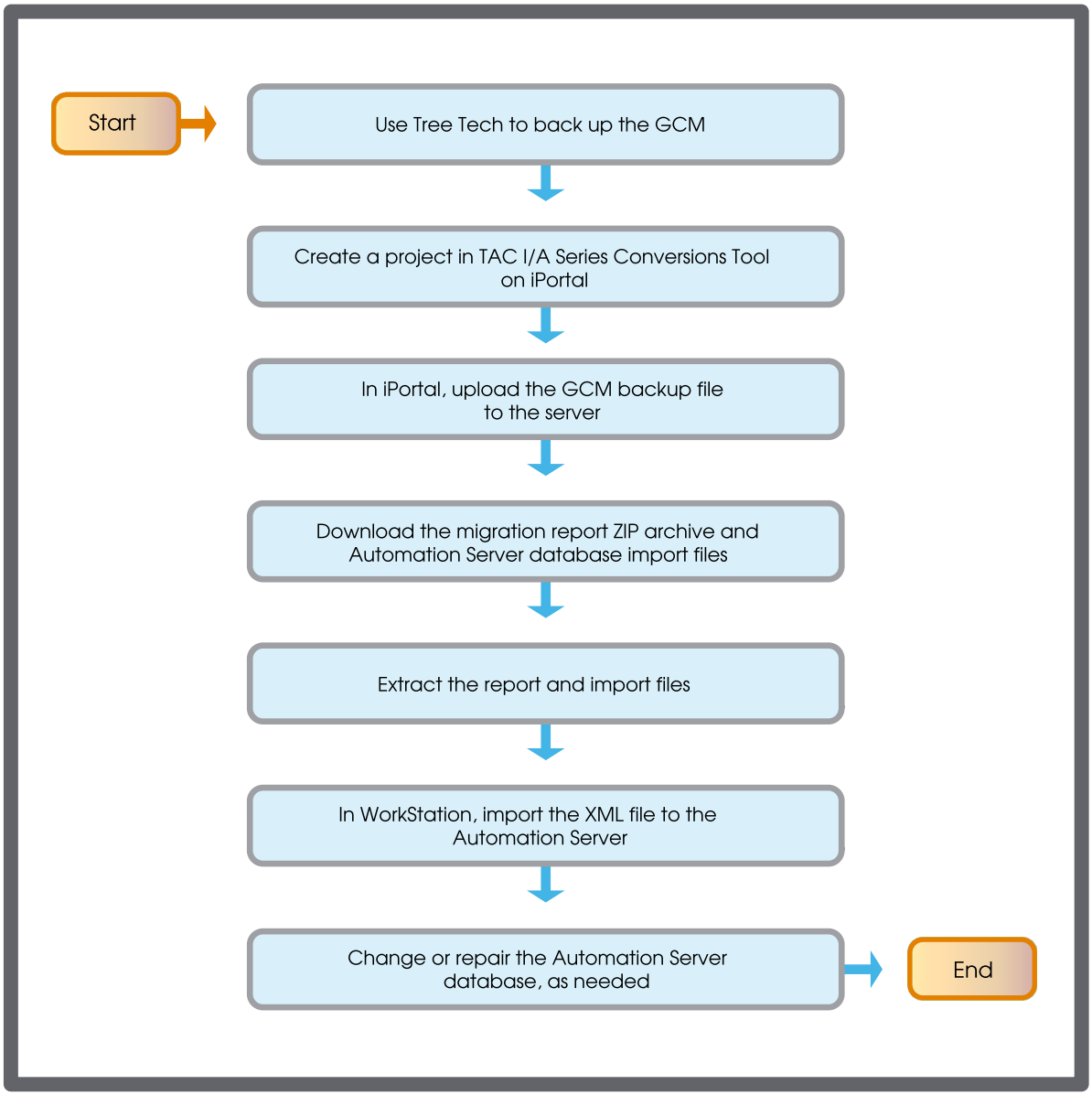


Figure: GCM database conversion to Building Operation.

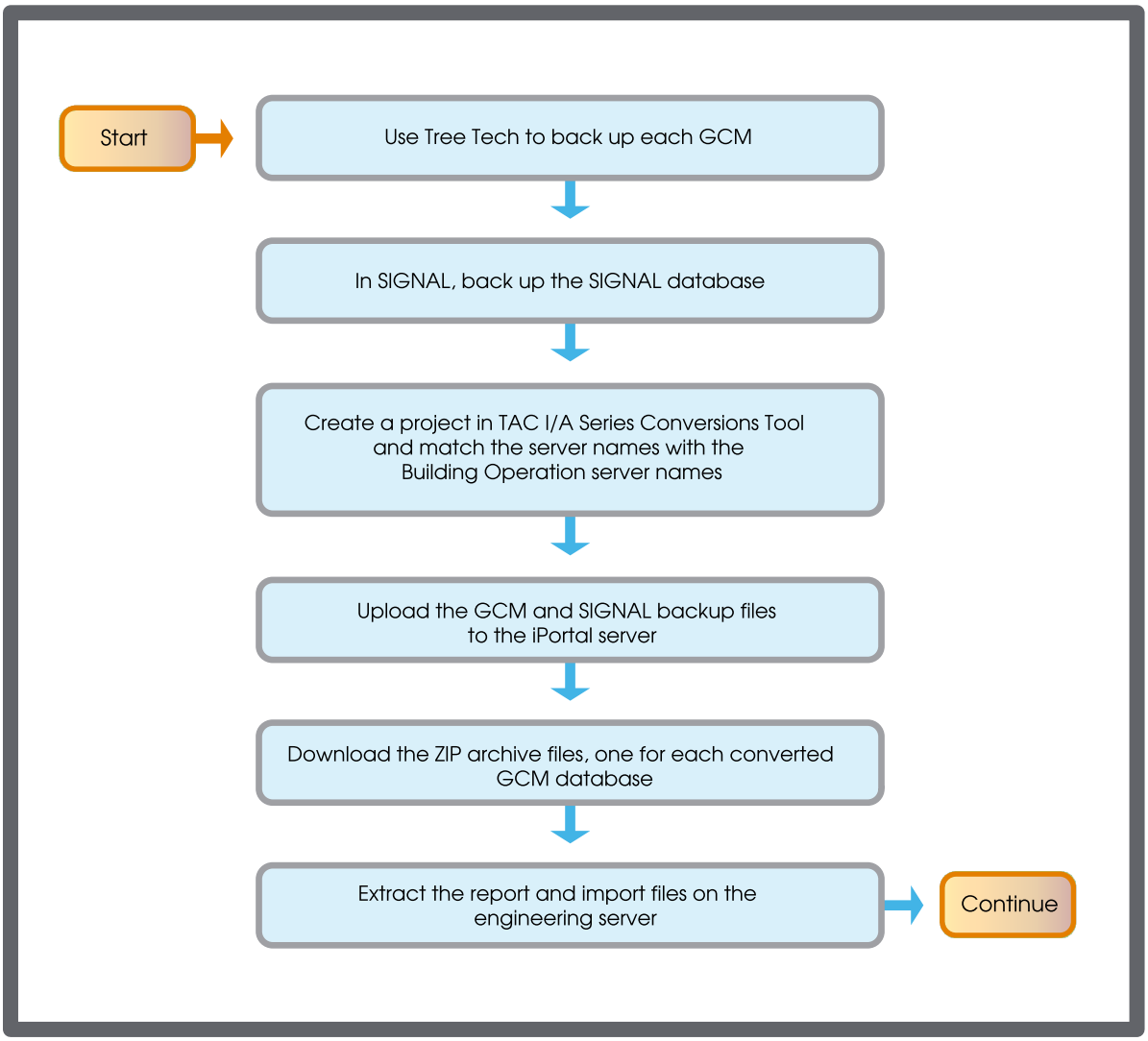


Figure: Signal database conversion to Building Operation.

WorkStation is then used to import the XML files into Building Operation servers. For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

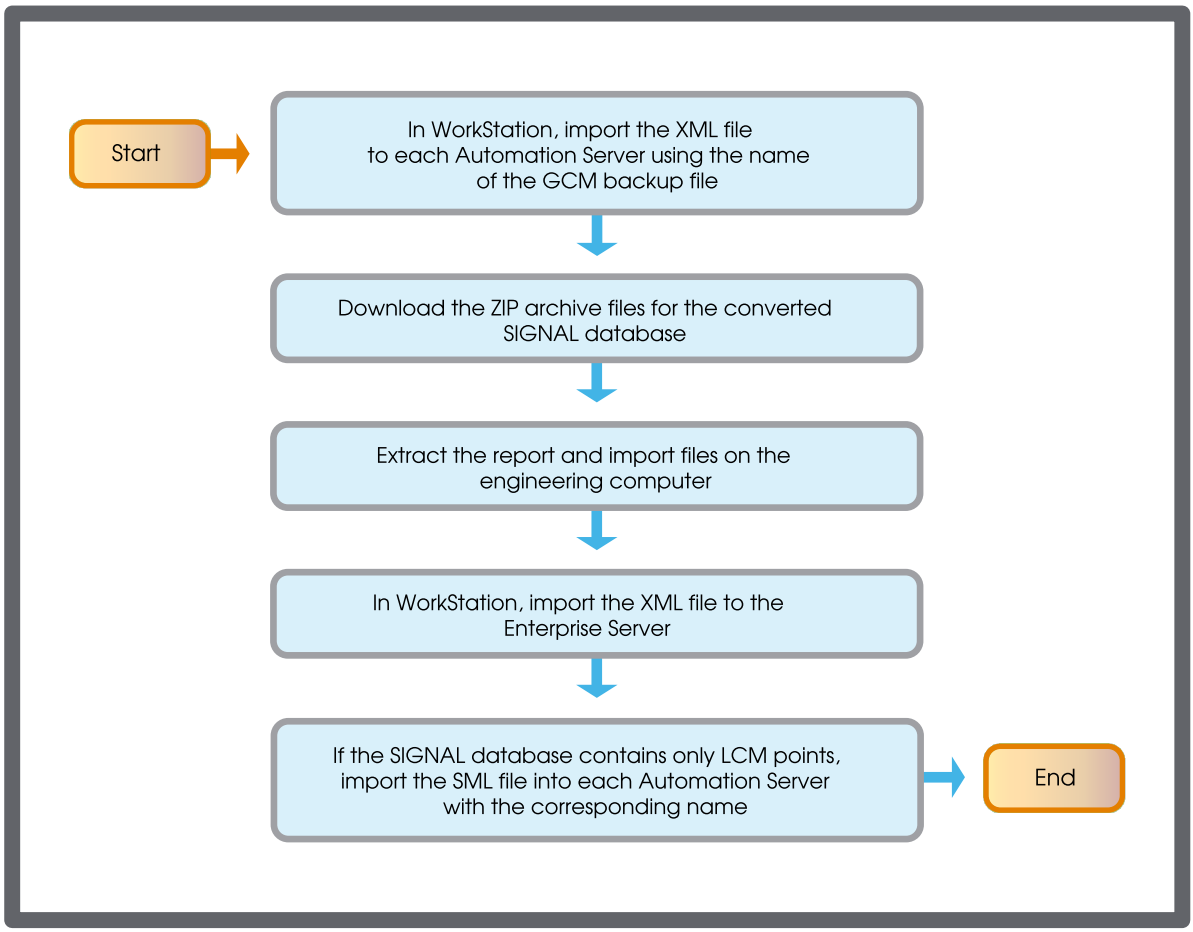


Figure: Database conversion to Building Operation.

After you import the GCM and Signal data into WorkStation, and the migration is complete, use WorkStation to make any required changes in logic.

1.2 GCM and Signal Database Backup

GCM Database Backup

You use Tree Tech™ software to backup your GCM and create a Tree Tech .gdf file. TAC I/A Series Conversions Tool uses the .gdf backup file to create a file that will migrate the GCM database to a Building Operation server.

Prior to backing up the GCM database, make sure the GCM system is functioning properly and correct any issues as needed.

When a backup is performed, Tree-Tech displays errors when block names are encountered having characters that Tree Tech does not allow. Use the the GCM Block Editor (terminal mode to the GCM's RS-232 port) to rename those blocks using a copy block technique. For each block with an error, create a new block using the block copy command. This ensures the input pointers and all attributes are copied. Then transfer all pointers from inputs of other blocks pointing to the original block's outputs to the new block's outputs, and then delete the original block.

The TAC I/A Series Conversions Tool migrates GCM functionality to Building Operation including properties that interface to LCM values under the LCM network. Tree Tech Engineering Guide, (F-26640).

For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

Signal Database Backup

Use the built-in Signal backup utility to create a backup file. TAC I/A Series Conversions Tool uses the .zip backup file to create an import file that will migrate the Signal database to Building Operation Enterprise Server. The Tool can accomodate files up to 35 MB. If the backup .zip file is too large, reduce its size by removing the SAMPDATA folder and its contents. This folder is not needed for the migration. If, after removing the folder, the .zip file is still larger than 35 MB, contact Product Support Services for guidance on removing addtional files.

Signal graphics are converted to Building Operation graphics. TAC I/A Series Conversions Tool also creates import files used to create LCM device objects for any LCMs that were in the Signal database. The LCM field controllers that were previously under the GCM are integrated into the normal Building Operation functions such as graphics, alarms, schedules and trends.

For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

1.3 NETWORK 8000 System Integration to Building Operation

Building Operation supports the integration of NETWORK 8000® systems by replacing the GCM (GCM-84xxx and GCM-86xxx) with an Automation Server and and Signal with an Enterprise Server. Only GCMs with firmware versions 5.4A and 5.41A are supported. These GCMs have an RS-485 field network that communicates to any version of NETWORK 8000 ASD devices. These GCMs have a second RS-485 network that communicates with firmware version 5.4 LCMs.

An existing NETWORK 8000 system consisting of one or more GCMs and a Signal head-end software package can be migrated to Building Operation servers by using the TAC I/A Series Conversions Tool to create a set of import files and report files. You import one file, which is equivalent to the GCM backup database, into a server. If the existing system contains a Signal head-end, it is replaced by an Enterprise Server. You use an import file to create the server database, which is complete with the converted Signal graphics.

After the backup database has been converted with the TAC I/A Series Conversions Tool and an Automation Server has been installed, you disconnect the ASD network cable from the GCM and connect it to the RS-485 terminal block of the Automation Server. You must observe the polarity of the field network when connecting to the Automation Server. For a GCM-86xxx, if you intend to use the existing GCM-ASD connector, you must rewire the ASD connector to maintain correct polarity.

Either before or after the Automation Server has been installed, you must configure the field device network communications in Building Operation. See Building Operation WebHelp for more information on how to configure communications.

The installation data of the LCMs must be configured to allow LCM exception messages to reach the Automation Server to provide alarms, events, and updates to the server blocks. For more information, see the *LCM Exception Routing* topic on WebHelp.

1.3.1 Smoke-Control Operations in Building Operation

Special consideration of certified smoke-control systems should given before transitioning a job to Building Operation.

The NETWORK 8000 smoke-control systems use a GCM and ASD controllers and may be connected to monitoring controller such as SIGNAL if that monitoring controller is isolated both electrically and through software. When replacing a SIGNAL and GCM combination with an Automation Server, it is not possible to maintain smoke-control certification because the Automation Server is not certified for smoke control when it replaces a GCM.

Note

GCS networks are not supported in Building Operation servers.

1.4 NETWORK 8000 Device Support in Building Operation

The following NETWORK 8000 devices are supported:

- GCM with firmware version 5.4A or 5.41A
- MICROZONE II all firmware versions
- MICROFLO II all firmware versions
- PEM all firmware versions
- LIM all firmware versions

The following NETWORK 8000 devices are not supported:

- GCM with CCL language
- GCS
- LNC
- SIM GCM
- MICROZONE
- PLC

Note

-
  - The GCS, MICROZONE, and PLC require the GCS network to function and are not supported.

1.5 NETWORK 8000 Attribute to Property Name Differences in Building Operation

Most NETWORK 8000 attribute names are directly migrated to Building Operation, but for clarity, some names have minor changes. The following table shows examples of some of these changes.

Table: NETWORK 8000 Attribute to Property Name Differences in Building Operation

NETWORK 8000 Abbreviation	NETWORK 8000 Full Name	Building Operation Name	Building Operation Display Name	Building Operation Objects With This Property
AINP	ANALOG VALUE INPUT	AInp	Analog input	Alarm, Curve, Limit, Loop, Pwm, Reset, SeqBin, SeqLin, SeqRot, Total, Tstat, TstatFlt
DINP	DIGITAL VALUE INPUT	DInp	Digital input	Cos, Delay, Momen
DFTAV	DEFAULT ANALOG VAL	DftAV	Default analog input	Apt, RlcmAv, RnetAv
DFTDV	DEFAULT DIGITAL VAL	DftDV	Default digital input	Dpt, RlcmDv, RnetDv
BPRIN	BAROMETRIC PRESS IN	BPrIn	Barometric press English	EnthlDew, EnthlRh
BRRMM	BAROMETRIC PRESS MM	BPrMm	Barometric press Metric	EnthlDew, EnthlRh
TYPE	CONTROL TYPE	CType	Control type	VvBox
TYPE	DEVICE TYPE	CType	Controller device type	Mn, MnHpfc

The NETWORK 8000 input pointer names are converted to Building Operation references. The following table shows examples of input pointer to Building Operation reference name differences.

Table: NETWORK 8000 Input Pointers Conversion Examples

NETWORK 8000 Input Pointers	Building Operation Input Reference Values
MATH:P10M:AV	~/NW8000 Interface/Application/Control/Math:P10M/AV
DPT:L1ENAB:DV	../../Points/Dpt:L1ENAB/DV

Continued

NETWORK 8000 Input Pointers	Building Operation Input Reference Values
DPT:D4:DV	~/NW8000 Interface/Application/Points/Dpt:D4/DV
HILO:T_34:HIVAL	../../Control/HiLo:T_34/HiVal

1.6 NETWORK 8000 Data Not Migrated to Building Operation

Not all NETWORK 8000 data can be migrated to Building Operation. Therefore, historical data should be extracted, if needed, prior to decommissioning the GCM. The current calculated pre-start and pre-stop times of the OSS block, the calculated gains of a LOOP block, and totalization values can be collected in block reports. For seamless optimum control, you can enter the data into the appropriate Building Operation objects.

1.6.1 Historical Data

Historical data such as trends, alarm history, exception histories, diagnostic alarms, MTRs, and event logs are not migrated. The existing LCM trends should be replaced with Building Operation trends. Trend data in LCMs can be read with Tree Tech or a terminal emulator.

1.6.2 Block Calculated Values

You can run reports in the GCM and make note of the following values and then enter them in the appropriate locations in Building Operation to improve performance.

OSS Pre-start and Pre-stop

The current calculated pre-start and pre-stop times of the OSS block can be recorded by creating a GCM block report of the OSS blocks. For seamless optimum stop and stop control, you can enter these learned times into the Pre-start and Pre-stop table of the migrated OSS object.

LOOP Calculated Gains

The calculated gains of a LOOP block in the self-tune mode are not migrated but can be recorded with a LOOP block report. Then enter the TR, IGAIN, and DERV block values into the Loop object parameters tab.

Totalization

Totalization value data is not migrated but can be recorded with block reports. The following table lists the Building Operation objects and properties where the totalization data can be entered.

Table: Totalization Values

Object	Output Property
DI	Elapsed on time Number of changes
DO	Elapsed on time Number of changes
MtrCycle	Total on cycles

Continued

Object	Output Property
MtrDays	Remaining days
MtrTime	Total run time
Total	Total Elapsed time

1.6.3 Print Groups

Print Groups

All GCM print group data is saved to the migration reports but is not migrated to Building Operation. For more information, see the *LCM Exception Routing* topic on WebHelp.

1.7 Replaced NETWORK 8000 Block Characters

Some NETWORK 8000 block names contain characters that are not allowed in Building Operation. These characters are replaced with lower-case letters.

Table: Replaced NETWORK 8000 Block Characters

NETWORK 8000 Characters	Name	Replaced with Lower Case-letter
&	Ampersand	a
/	Forward slash	b
=	Equal sign	e
.	Period	d
>	Greater than sign	g
<	Less than sign	l (lower-case L)
"	Quote mark	m
%	Percent sign	p
?	Question mark	q
~	Tilde	t

1.8 Additional Objects for Converted Schedule Blocks

When the TAC I/A Series Conversions Tool converts the five types of GCM schedule blocks to the more full-featured Building Operation schedules, it adds additional objects to the database. In GCM programming it is common to "chain" different schedule block types together to create the needed functions. During migration these chains of schedule blocks are converted to Building Operation Digital Schedules.

Note

The OSS block contains an embedded schedule within it. This embedded schedule is not treated the same as "chained" schedule blocks. The OSS schedule functionality is always converted to an Building Operation Digital Schedule and the optimal start/stop functions are converted to a Building Operation Oss object.

The Digital schedules are connected by bindings to the migrated control objects. Apt and Dpt objects are the only objects that are capable of binding to the Building Operation schedules. Apt and Dpt objects are added as needed to connect the schedule to the migrated control objects.

SlectAv and SlectDv are two other objects that can be added to the database during migration. These are used when necessary to achieve the same functionality as the GCM schedules provided. One use is for a schedule block having an analog output. If an analog out is needed, which is not provided by a Schedule, a SlectAv must be added to provide the analog switching. A second use is where the chain of GCM blocks provided logic that would require the addition of a digital switch. In this case a SlectDv will be added to the database.

As the TAC I/A Series Conversions Tool creates these objects, it names them using the object type plus the GCM block type plus the GCM block name, separated by colons (:). For example, converting a CALEN block named APR-OCT produces a Digital Schedule to replace the CALEN block, a Dpt to connect to control objects, and a SlectAv to switch analog values with the schedule having these names.

- Schedule:CALEN:APR-OCT
- Dpt:CALEN:APR-OCT
- SlectAv:CALEN:APR-OCT

For more information, see section 3.3 “GCM Migration Full Report” on page 51.

1.9 MN Block Conversion

The GCM can contain two types of blocks for communicating with MICRONET 2000 (MN2000) devices. The MN block can be used with any MN2000 device, whereas the MNFLO block is used only for MN-FLO or MN-FLO3T VAV controllers. In the Automation Server, three objects are used for MN2000 devices.

- Mn object, which can be used for any MN2000 device.
- MnHpfc object, which is used for the MN-HPFC controller.
- MnFlo object, which is used for MN-FLO and MN_FLO3T controllers.

When you convert a GCM database, all MNFLO blocks are converted to Automation Server MnFlo objects. Conversion of MN blocks with a NUMDI attribute value of 5 or less results in the block converting to an MnHpfc object.

1.10 LCM Exception Routing

You modify the installation data of the LCM to allow LCM exception messages to reach the Automation Server to provide alarms, events, and updates to the server blocks. The communication data, which includes the print groups and exception, diagnostic, and port definitions, must also be verified and modified if not correct.

When verifying and modifying the print groups, configure a maximum of two ports. One print group is required for LCM exception messages. This print group must be set to port 1 on the parent GCM that was replaced by the Automation Server. The GCM port address must contain the correct network number and GCM number of the original parent GCM, which is now the Automation Server. You can define local port 1 on the LCM in this print group (or another) if there is a need for a local LCM port to receive exception messages. All other print group devices should be set to not used. For more information, see NETWORK 8000 GCM/LCM Programmer's Manual, (F-23120).

For more information, see section 1.11 “Configuring LCM Exception Routing” on page 24.

For more information, see section 1.12 “Configuring LCM Print Groups” on page 25.

1.11 Configuring LCM Exception Routing

Use a terminal editor to modify the LCM's INSTALL DATA so that exception messages will reach the Automation Server.

For more information, see the *LCM Exception Routing* topic on WebHelp.

To configure LCM exception routing

1. Connect a laptop to the LCM RS232 port (local LCM port) using a DB9 to DB25 serial cable.
2. Select the proper DTE/DCE setting.
3. Using a terminal emulator program, log in to the LCM and navigate to **DATA BASE/INSTALL DATA/EXCEP/DIAG PRT GROUP**.
4. Set the LCM's **DIAG PRT GROUP** to a print group containing the parent GCM (Automation Server) port, which is typically print group 1.

To complete the LCM exception routing, configure the print groups.

For more information, see section 1.12 "Configuring LCM Print Groups" on page 25.

1.12 Configuring LCM Print Groups

Use a terminal editor to modify the LCM's PRINT GROUPS so that exception messages will reach the Automation Server.

For more information, see the *LCM Exception Routing* topic on WebHelp.

To configure LCM print groups

1. Connect a laptop to the LCM RS232 port (local LCM port) using a DB9 to DB25 serial cable.
2. Select the proper DTE/DCE setting.
3. Using a terminal emulator program, log in to the LCM and navigate to **/PRINT GROUPS/EDIT/EDIT PRINT GROUP**.
4. Set the LCM's **EDIT PRINT GROUP** to a print group containing the parent GCM (Automation Server) port, which is typically print group 1.
5. Scroll to **PORT ADDRESS** and press enter.
6. Type the address, **NETxx:GCMxx:LOCAL:P1**, and then press enter to assign the address of the Automation Server.
7. Return to the **EDIT PRINT DEVICE** menu.
8. Type 2 and press enter to edit print device number 2.
9. Scroll to **NOT USED** and press enter to set the print device to disabled.
10. Remove all other print group entries that do not point to the Automation Server or the local LCM port.

2 Converting a GCM or Signal Database

Topics

GCM and Signal Database Conversion
Converting A GCM Backup Database for Building Operation
Purchasing GCM Conversion Files
Downloading Converted GCM Files
Converting A Signal Backup Database for Building Operation
Purchasing Signal Conversion Files
Downloading Converted Signal Files
Server Import Files

2.1 GCM and Signal Database Conversion

The TAC I/A Series Conversions Tool converts GCM and Signal backup databases that you can import into a Building Operation server. The Tool also generates reports about the conversion that you can open in a browser and use to be sure the databases are without errors.

GCM Database Migration

The TAC I/A Series Conversions Tool converts a GCM backup file into an XML file that you can import into a Automation Server.

For more information, see section 2.2 “Converting A GCM Backup Database for Building Operation” on page 30.

Signal Database Migration

The TAC I/A Series Conversions Tool converts a Signal database into files that can be imported into an Enterprise Server. The one or more GCM databases in the Signal database can be imported into Automation Servers.

For more information, see section 2.5 “Converting A Signal Backup Database for Building Operation” on page 36.

For more information, see section 1.1 “TAC I/A Series Conversions Tool ” on page 9.

For more information, see section 3.1 “TAC I/A Series Conversions Tool Reports” on page 47.

For more information, see section 2.8 “Server Import Files” on page 43.

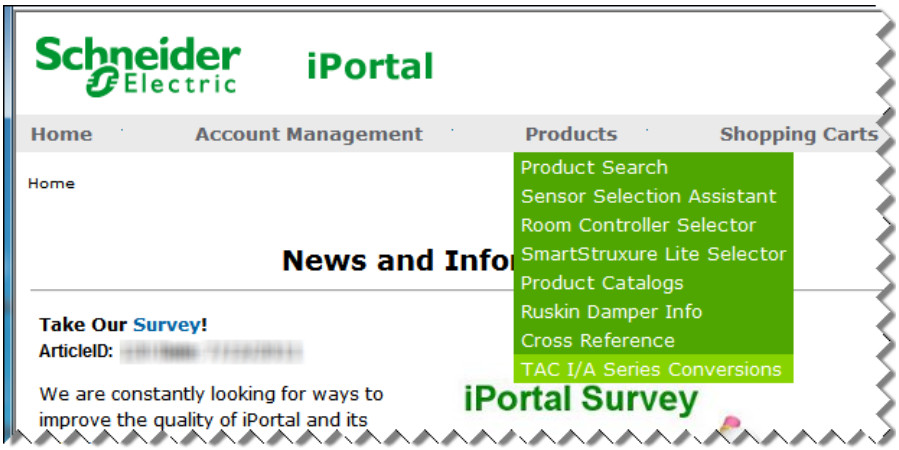
This chapter contains procedures for using TAC I/A Series Conversions. See Building Operation WebHelp for more information on how to import and use GCM and Signal data in Building Operation.

2.2 Converting A GCM Backup Database for Building Operation

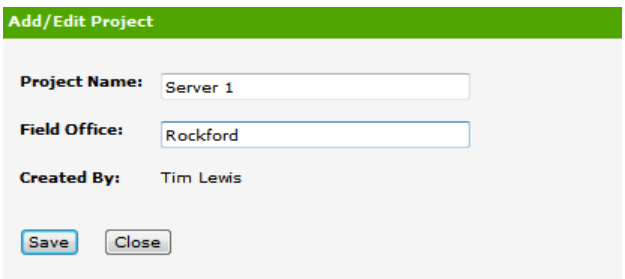
Follow this procedure to convert a GCM backup database for use in Building Operation. TAC I/A Series Conversions is located on the Schneider Electric iPortal website.

To convert a GCM backup database for Building Operation

1. Log into the Schneider Electric iPortal Website.
2. On the **Products** menu, click **I/A Series Conversions**.



3. On the TAC I/A Series Conversion Tool window, click **Add New Project**.
4. When prompted, enter the **Project Name** and **Field Office** name.



5. Click **Save**.

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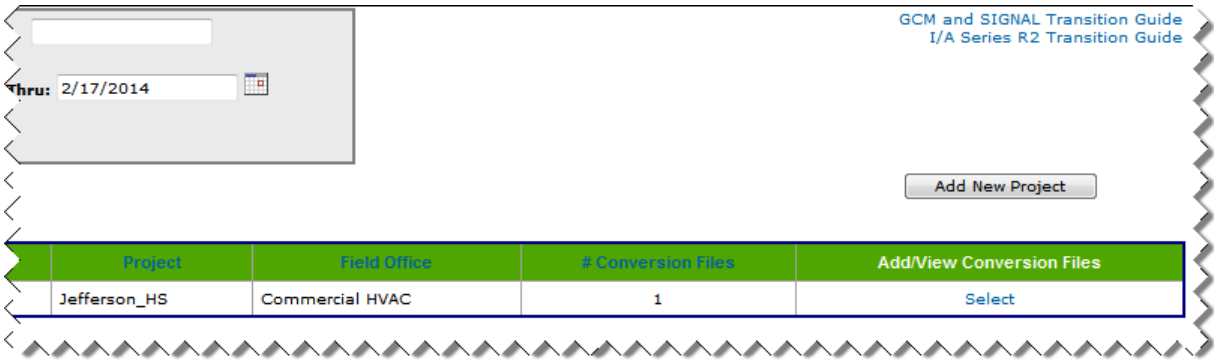
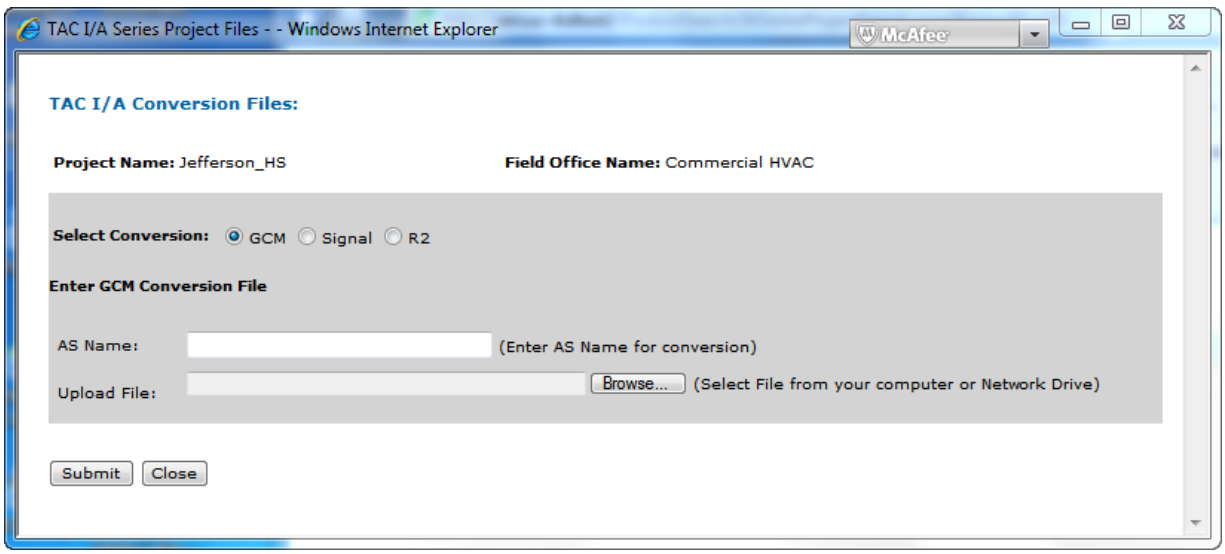
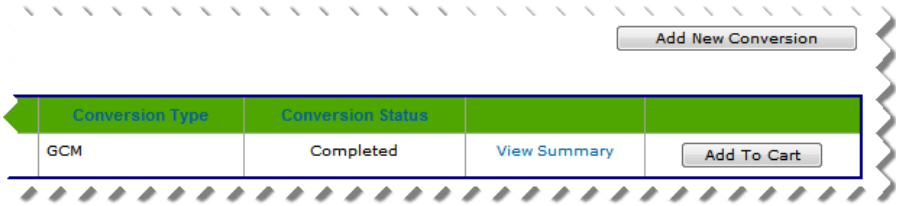
6. In the table of the TAC I/A Series Conversions Tool window, locate your project and in the **Add/View Conversion Files** column, click **Select**.



7. On the TAC I/A Series Conversion files page, click **Add New Project**.
8. For the type of conversion, select **GCM**.



9. In the **AS Name** text box, enter the name to be assigned to the Automation Server.
10. Click **Browse** and then locate the file on your PC or network.
11. Click **Submit**. After the file has been processed, you will receive an email that contains the status and summary of the conversion.
12. If necessary, refresh the browser page so that **Conversion Status** and **View Summary** display.



13. In the table, click **View Summary**.

The Summary report opens or you can save it to your PC for review. For more information, see section 3.2 “GCM Migration Summary Report” on page 48.

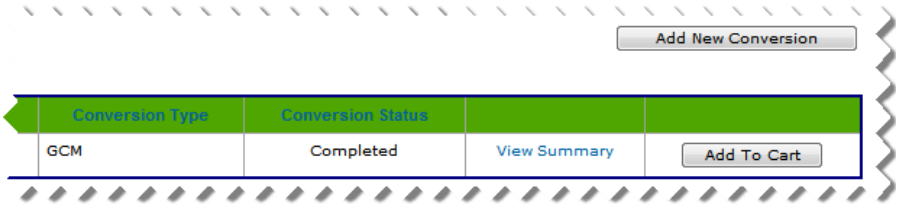
After reviewing the Migration Summary Report, you can purchase the migration files, whicn include the server XML import file and the detailed HTML report files. For more information, see section 2.3 “Purchasing GCM Conversion Files” on page 33.

2.3 Purchasing GCM Conversion Files

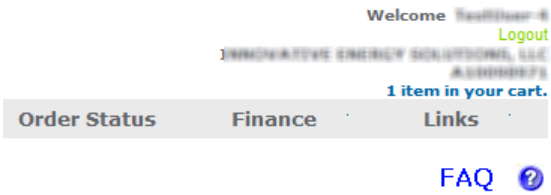
In TAC I/A Series Conversions Tool on the iPortal website, use these procedures to purchase the converted files for your project.

To purchase migration files

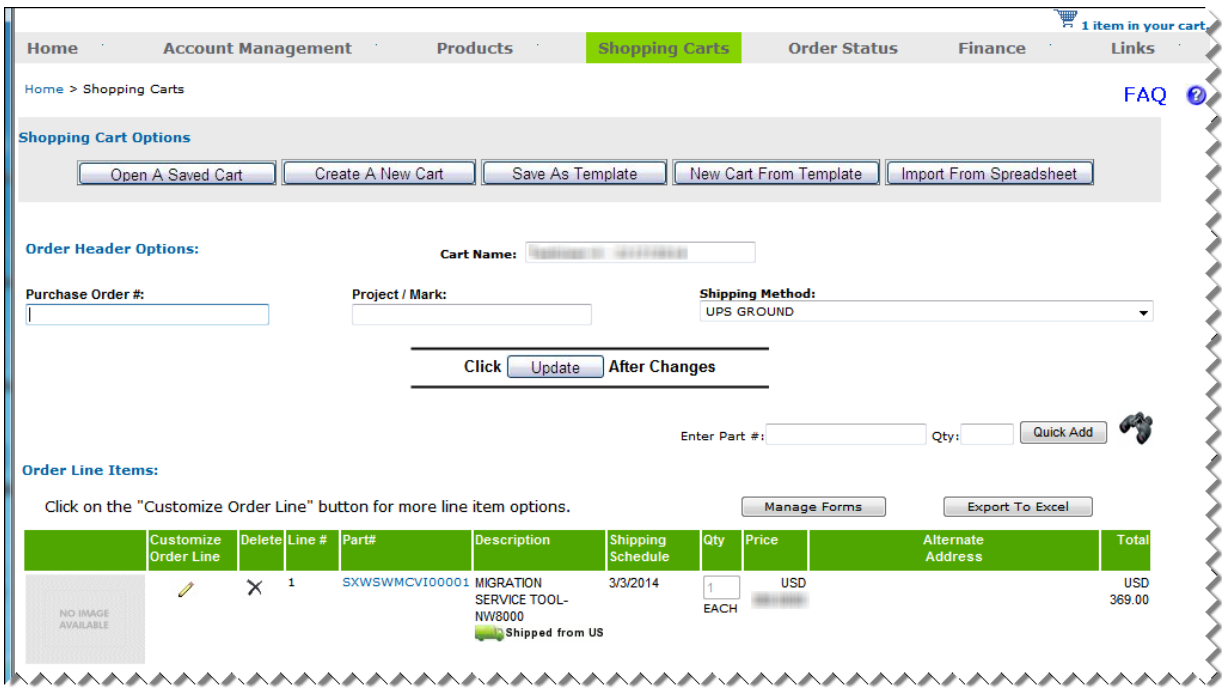
1. On the TAC I/A Series Conversions Files page, click **Add to Cart**.



2. When ready, in the upper right corner of the page, click the link to go to the cart.



3. In the shopping cart form, enter all the required information including a **Purchase Order** number and select a **Market Segment**.



4. Click **Checkout**.
5. On the final shopping cart page, click **Confirm Order**.

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6. Return to the iPortal **Products** menu and click **TAC I/A Series Conversions**.

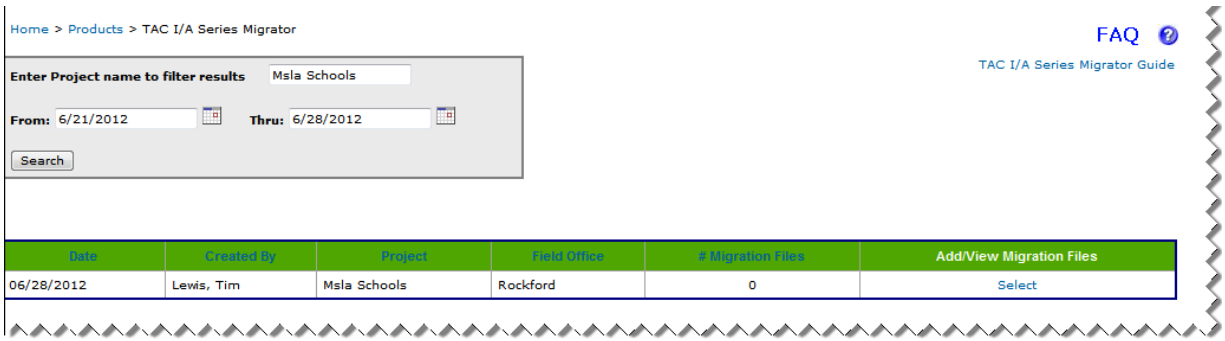
The table of projects is displayed. Your project may not be displayed immediately. An email is sent to you with a confirmation of the purchase. When the migration process is complete, another email is sent to you, notifying you that the files are ready. Once the migration process is complete, you can downoad the files. For more information, see section 2.4 “Downloading Converted GCM Files” on page 35.

2.4 Downloading Converted GCM Files

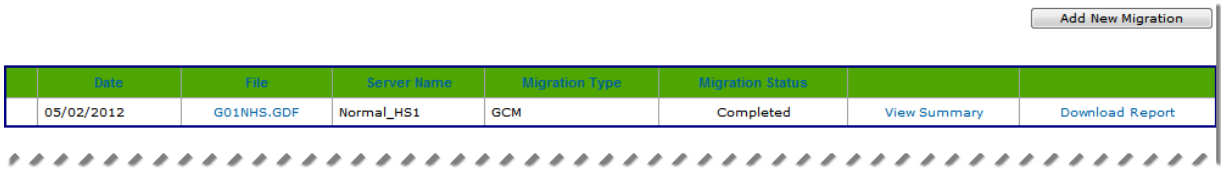
In TAC I/A Series Conversions Tool, on the iPortal website, use these procedures to download the converted GCM files for your project to your PC or network.

To download converted GCM files

1. On the TAC I/A Series Conversions Tool page on iPortal, locate the project to download. If your project is not listed in the table, or to narrow the list of projects, use the filter to show only projects within the date range of when the project was converted.



2. In the table of projects, locate the project you want to download and then click **Select**.



3. Click **Download Report**.
4. Save the file to your PC or network.
5. Locate the downloaded zipped files and extract it to a location where the XML file will be useful for importing into an Automation Server.

The reports are available as HTML files and the XML file can be imported into the Automation Server.

For more information, see section 3.1 “TAC I/A Series Conversions Tool Reports” on page 47.

For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

Your files remain on the TAC I/A Series Conversions server for a resonable amount of time so you can return at a later date to download your project's files.

See Building Operation WebHelp for more information on how to import and use GCM data in Building Operation.

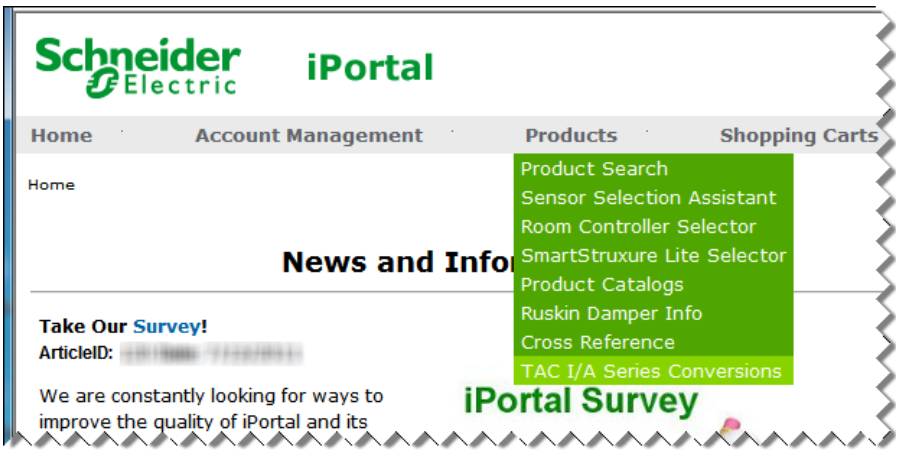
2.5 Converting A Signal Backup Database for Building Operation

Follow this procedure to convert a Signal backup database for use in Building Operation. TAC I/A Series Conversions Tool is located on the Schneider Electric iPortal website.

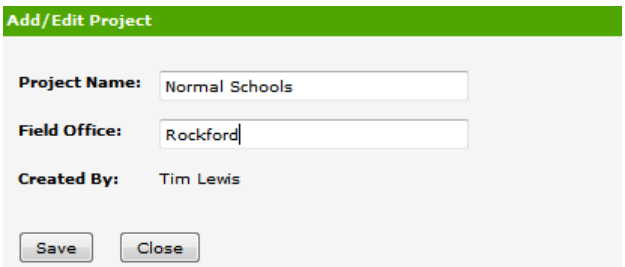
When you create a project in the TAC I/A Series Conversions Tool, make sure that the server names match the Building Operation names.

To convert a Signal backup database for Building Operation

1. Log into the Schneider Electric iPortal Website.
2. On the **Products** menu, click **I/A Series Conversions**.



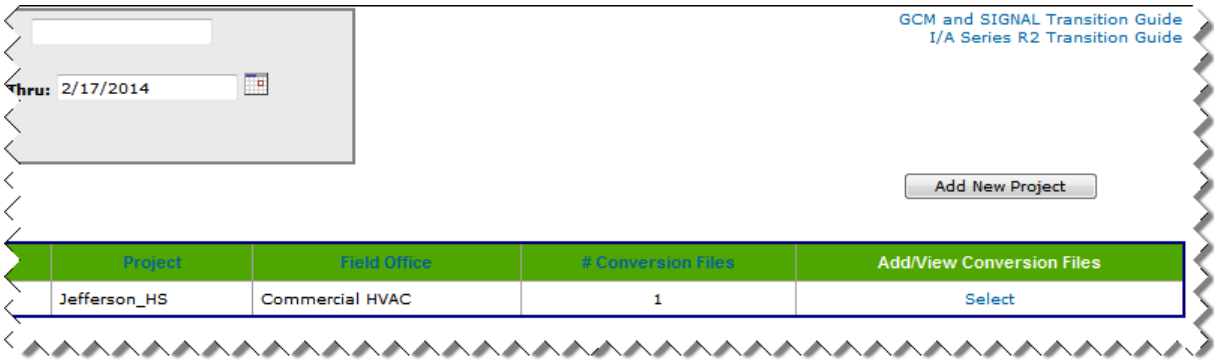
3. On the TAC I/A Series Conversions Tool window, click **Add New Project**.
4. When prompted, enter the **Project Name** and **Field Office** name.



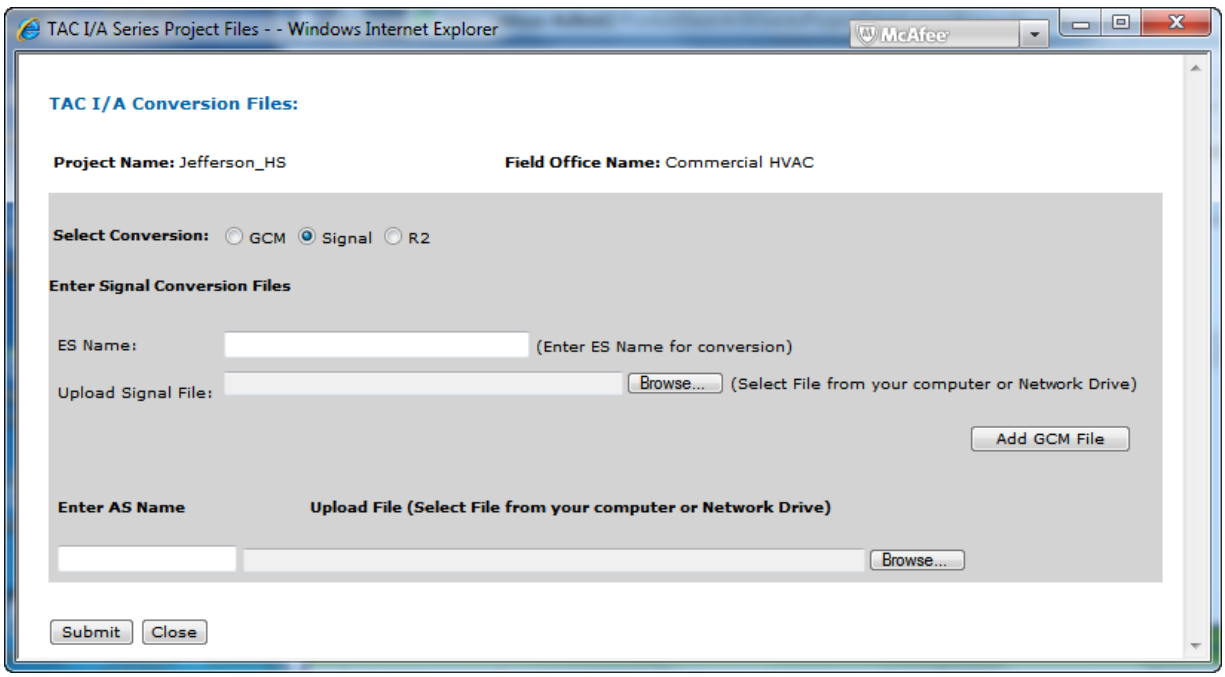
5. Click **Save**.

Continued on next page

6. In the table of the TAC I/A Series Conversions Tool window, locate your project and in the **Add/View Conversions Files** column, click **Select**.



7. On the TAC I/A Series Conversions Tool files page, click **Add New Project**.
8. For the type of conversion, select **Signal**.



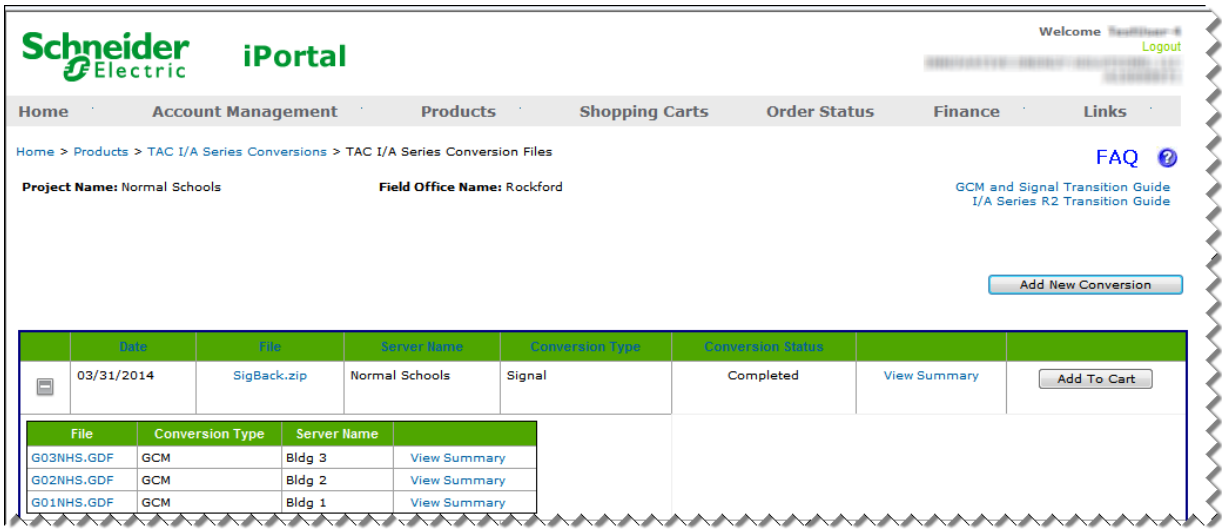
9. In the **ES Name** text box, enter the name to be assigned to the Enterprise Server and make note of this name for the import process.

> **Note**
>
> The **ES Name** and **AS Names** must match the names of the respective server devices because:
> - The converted databases must be imported into the correct servers.
> - The data binding between servers are built using those names. If the names are incorrect all bindings will be incorrect.

10. Click **Browse** and then locate the Signal .zip file on your PC or network.

Continued on next page

11. In the **AS Name** text boxes, enter the name or names to be assigned to each of the Automation Servers and make note of these names for the import process.
12. Click **Browse** and then locate the .gdf file on your PC or network for each GCM.
13. To add more GCM files, click **Add GCM File**.
14. Click **Submit**. After the file has been processed, you receive an email that contains the status and summary of the conversion.
15. If necessary, refresh the browser page so that **Conversion Status** and **View Summary** display.



16. To see the list of the GCM files that were coverted, click the **expand** button (plus sign) in the first column for the project.
17. To view any of the summary reports, in the table, click **View Summary**.

The Summary report opens and you can save it to your PC for review. For more information, see section 3.8 “Signal Migration Summary Report” on page 68.

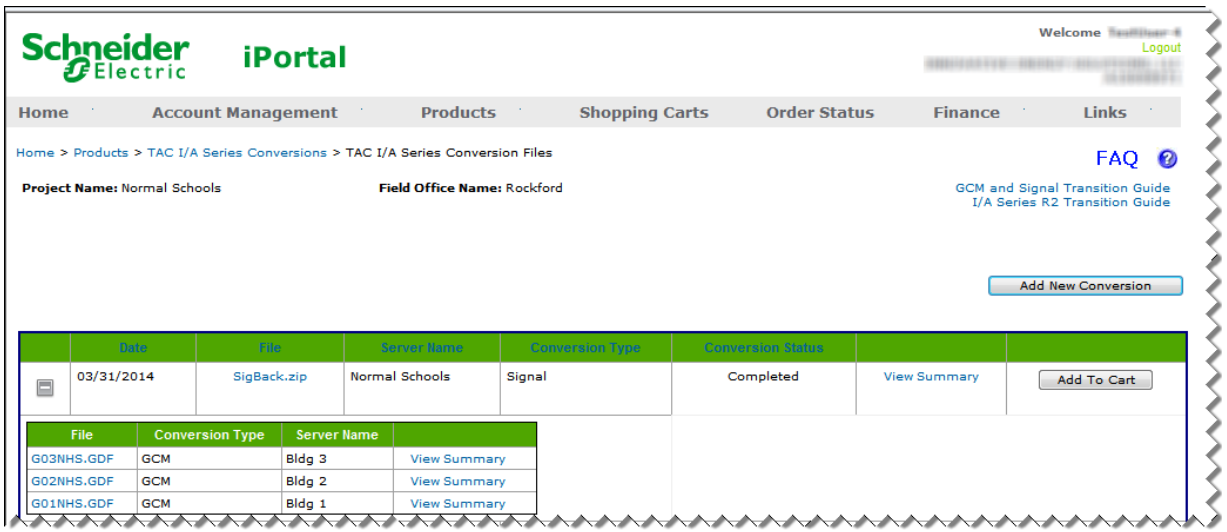
After reviewing the Migration Summary Report, you can purchase the migration files, whicn include the server import files and the detailed HTML report files. For more information, see section 2.6 “Purchasing Signal Conversion Files” on page 39.

2.6 Purchasing Signal Conversion Files

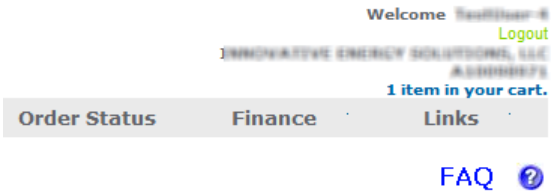
In TAC I/A Series Conversions Tool on the iPortal website, use these procedures to purchase the converted files for your project.

To purchase Signal migration files

1. On the TAC I/A Series Conversions Tool Files page, click **Add to Cart**.

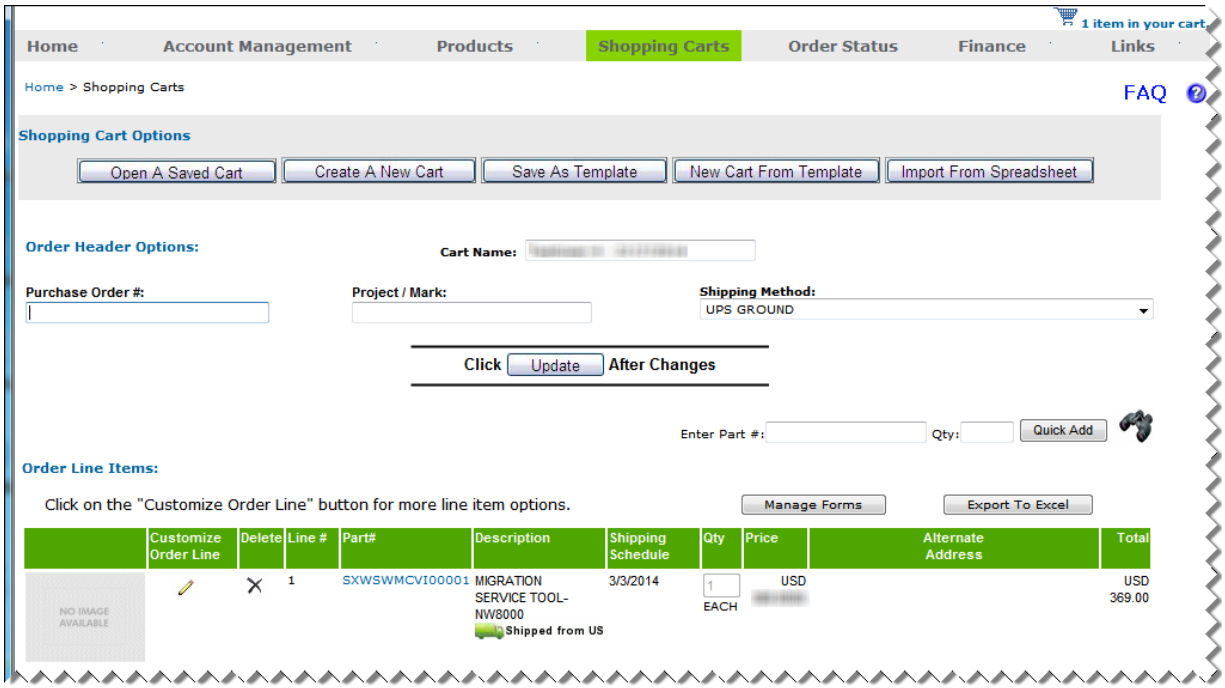


2. When ready, in the upper right corner of the page, click the link to go to the cart.



Continued on next page

3. In the shopping cart form, enter all the required information including a **Purchase Order** number and select a **Market Segment**.



4. Click **Checkout**.
5. On the final shopping cart page, click **Confirm Order**.
6. Return to the iPortal **Products** menu and click **TAC I/A Series Conversions**.

The table of projects is displayed. Your project may not be displayed immediately. An email is sent to you with a confirmation of the purchase. When the migration process is complete, another email is sent to you, notifying you that the files are ready. Once the migration process is complete, you can download the files. For more information, see section 2.4 “Downloading Converted GCM Files” on page 35.

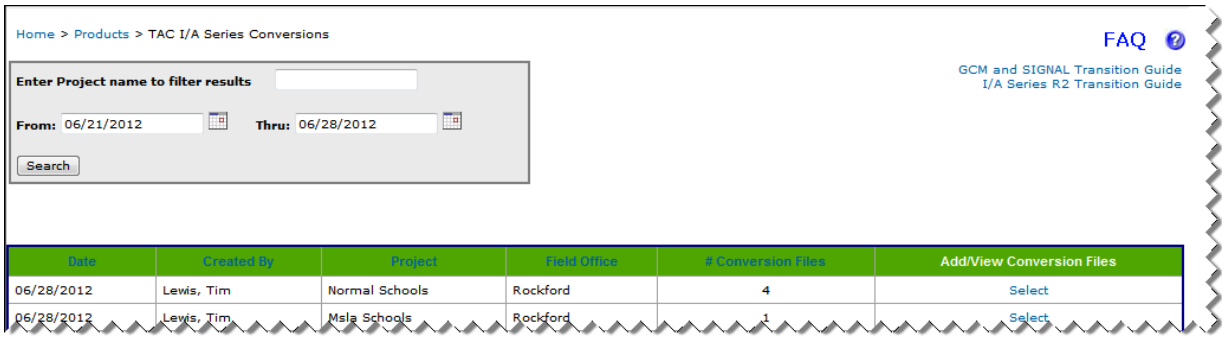
2.7 Downloading Converted Signal Files

In TAC I/A Series Conversions Tool, on the iPortal website, use these procedures to download your project's converted Signal files to your PC or network.

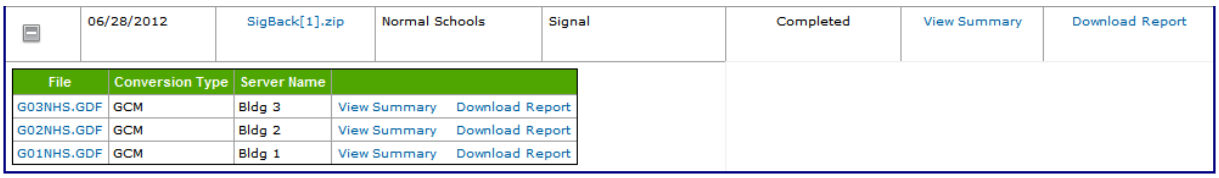
To download converted Signal files

1. On the TAC I/A Series Conversions Tool page on iPortal, locate the project to download. If your project is not listed in the table, or to narrow the list of projects, use the filter to show only projects within the date range of when the project was converted.

2. In the table of projects, locate the project you want to download and then click **Select**.



3. Click the **expand** button (plus sign) to view the GCM migration files that are included in this Signal migration.



4. To download the Signal database, in the row with the Signal .zip file, click **Download Report** and save the file to your PC or network.

5. To download the GCM databases, in each row with a GCM .gdf file, click **Download Report** and save the file to your PC or network.

6. Extract the downloaded Signal zipped files to locations where they will be useful for importing into an Enterprise Server and for viewing the reports.

7. Extract each of the downloaded GCM zipped files to a location where they will be useful for importing into an Automation Server and for viewing the reports.

The downloaded files contain reports that are available as HTML files and the GCM and Signal files can be imported into the Building Operation servers.

For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

For more information, see section 3.1 “TAC I/A Series Conversions Tool Reports” on page 47.

For more information, see section 2.8 “Server Import Files” on page 43.

Your files remain on the TAC I/A Series Conversion server for a reasonable period of time so you can return at a later date to download your project's files.

See Building Operation WebHelp for more information on how to import and use the converted data in Building Operation.

2.8 Server Import Files

The TAC I/A Series Conversions Tool converts GCM backup files into XML import files to be imported into Automation Servers. The naming of these import files is derived from the names of the backup files. For example, if you provide a backup file, created with Tree Tech, to the Tool named MyGCM1.gdf, an Automation Server import file named MyGCM1.xml is produced, which you to import into the Automation server intended to replace that GCM. This XML import file is intended to be imported at the root level of the Automation Server. For more information see WebHelp about importing files.

The TAC I/A Series Conversions Tool converts a Signal backup file into a XML import file to be imported into the Enterprise Server. The naming of the Enterprise Server import file comes from the entry of the name into the TAC I/A Series Conversions Tool project when you create the project for conversion of databases. In this example, if you name you Enterprise Server TopControl, you will get an Enterprise Server import file named TopControl.xml. This file should be imported into the Enterprise Server at the root level. For more information see WebHelp about importing files.

If you provided the TAC I/A Series Conversions Tool a set of files for conversion that includes one or more GCMs having LCMs attached to them, the Tool provides an additional Automation Server import file for each GCM with Signal points linked to LCM blocks. The additional file contains LCM block information representing Signal database points. You import the additional files into the Automation Servers only after the converted GCM databases have been imported into the Automation Servers. The names of the additional import files come from your entry of names into the Tool project. For this example, if you have named an Automation Server having an LCM attached to it MyGCMReplacement, the Tool provides an import file named MyGCMReplacement.xml. When importing the converted GCM database into an Automation Server, a NETWORK 8000 Interface is created. You import the addional file, in this case MyGCMReplacement.xml, into the Automation Server choosing the NETWORK 8000 Interface as the import location. For more information see WebHelp about importing files.

3 Reports

Topics

TAC I/A Series Conversions Tool Reports
GCM Migration Summary Report
GCM Migration Full Report
GCM Cross Reference Report
GCM MICROFLO II Configuration Report
GCM Print Group Report
GCM View/Edit/Override Report
Signal Migration Summary Report
Signal Migration Point Report
Signal Migration Point Reference Binding List
Signal Migration Screen Files Exception List

3.1 TAC I/A Series Conversions Tool Reports

Refer to the reports to change or repair the database as needed in Workstation. This chapter contains information about the reports that are generated with the TAC I/A Series Conversions Tool. The reports are created as HTML (.htm) files and can be viewed in any Internet browser. They contain detailed information on both successful and unsuccessful migration features. Some reports provide configuration information for the devices on the network and should be retained in the event the device needs to be reconfigured.

For more information, see section 1.1 “TAC I/A Series Conversions Tool ” on page 9.

See Building Operation WebHelp for more information about the NW8000 Interface, which is the imported database of a GCM.

3.1.1 Report Header Information

The top of each report displays information about the converted GCM database.

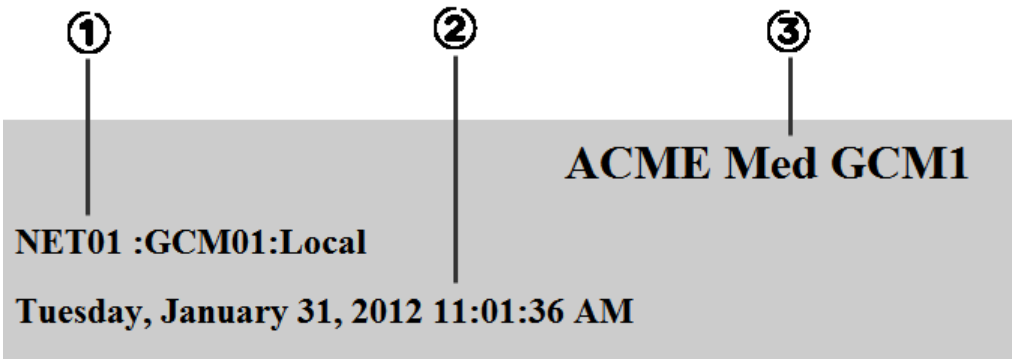


Figure: Report header information

Table: Report Header Information

Item	Description
①	**Address** Displays the NETWORK 8000 logical address of the GCM which contains the network number and GCM number.
②	**Time Stamp** Displays the timestamp of the when migration of the backup file took place.
③	**Title** Displays the INSTALL NAME from the GCM application.

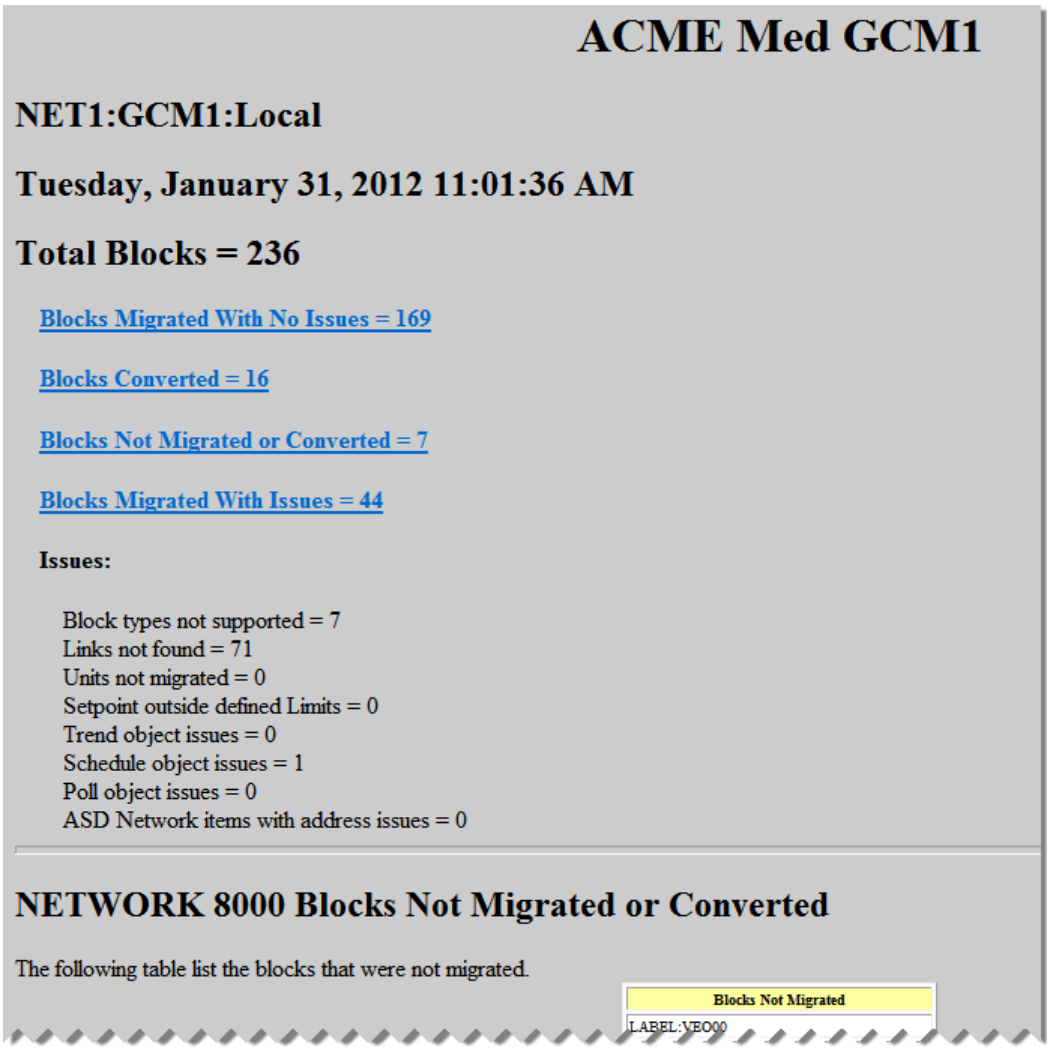
3.2 GCM Migration Summary Report

Use the Summary report to review the potential success of the migration. The report lists the quantity of successes and failures, along with lists of the block names that succeeded or failed. After reviewing this report, you can purchase the other reports and import file, or decide to address any of the issues that occurred before completing the migration. For example, if the report shows that several blocks have issues, you can decide to fix the blocks in the GCM before the migration. For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

For more information, see section 3.3 “GCM Migration Full Report” on page 51.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.



ACME Med GCM1

NET1:GCM1:Local

Tuesday, January 31, 2012 11:01:36 AM

Total Blocks = 236

Blocks Migrated With No Issues = 169

Blocks Converted = 16

Blocks Not Migrated or Converted = 7

Blocks Migrated With Issues = 44

Issues:

Block types not supported = 7
Links not found = 71
Units not migrated = 0
Setpoint outside defined Limits = 0
Trend object issues = 0
Schedule object issues = 1
Poll object issues = 0
ASD Network items with address issues = 0

NETWORK 8000 Blocks Not Migrated or Converted

The following table list the blocks that were not migrated.

Blocks Not Migrated
LABEL:VEO00

Figure: Top portion of the Summary Report

Table: Migration Summary Report

Component	Description
Total Blocks	Displays the total number of blocks in the GCM application. This is the sum of Blocks not Migrated or Converted + Blocks Converted + Blocks Migrated with Issues + Blocks Migrated Completely.
Blocks Migrated with No Issues	Displays the total number of blocks completely migrated.
Blocks Converted	Displays the total number of blocks converted.
Blocks Not Migrated or Converted	Displays the total number of blocks not migrated or converted.
Blocks Migrated With Issues	Displays the total number of blocks migrated with issues. These are migrated blocks but are indicated with a red error message for at least one property. For example, an object with “Link was not found or invalid” property error comment would be reported in the migrated objects of the full report, but is listed here for summary purposes.
Issues	Displays the total number of issues found in the migration, broken down by category.

The Summary report includes other sections that provide additional information about the migration process.

3.2.1 NETWORK 8000 Blocks Not Migrated or Converted

Lists the blocks that were neither migrated or converted.

3.2.2 NETWORK 8000 Blocks Converted to Building Operation Objects

Lists all blocks that are converted to Building Operation objects.

The supported Schedule and Trend blocks were converted to Building Operation objects. The conversions can require additional interface objects to duplicate the functionality. The supported Schedule and Trend blocks that are converted are:

- CALEN
- DAILY
- HOLI
- WEEK
- OSS

- TREND

3.2.3 NETWORK 8000 Blocks Migrated With Issues

Lists only the blocks that were migrated but have at least one error message. Converted blocks with issues are not listed in this table.

3.2.4 NETWORK 8000 Blocks Migrated

Lists only the blocks that are migrated without any problems.

3.3 GCM Migration Full Report

You use the Full report to see how the NETWORK 8000 blocks were migrated or converted to Building Operation. The report also lists any issues that were created during the process so that you can address them as needed.

For more information, see section 3.2 “GCM Migration Summary Report” on page 48.

For more information, see section 3.4 “GCM Cross Reference Report” on page 62.

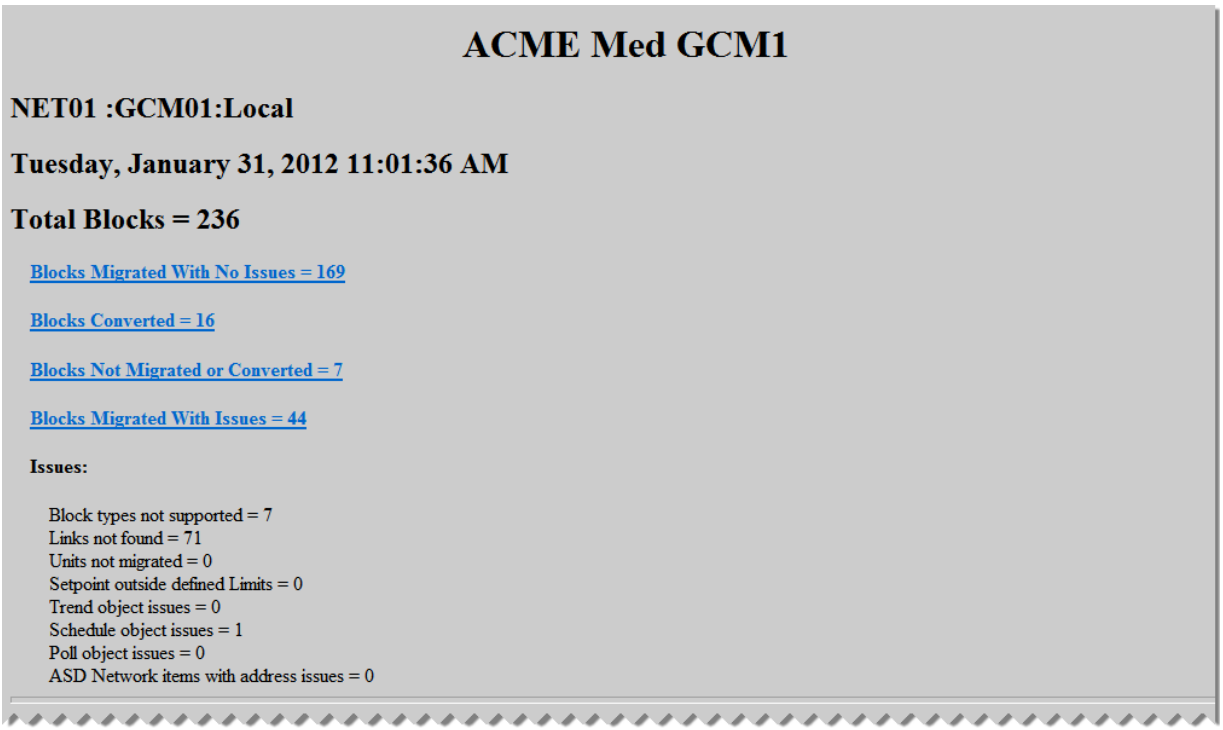
For more information, see section 3.5 “GCM MICROFLO II Configuration Report” on page 64.

For more information, see section 3.6 “GCM Print Group Report” on page 66.

For more information, see section 3.7 “GCM View/Edit/Override Report” on page 67.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.



ACME Med GCM1

NET01 :GCM01:Local

Tuesday, January 31, 2012 11:01:36 AM

Total Blocks = 236

Blocks Migrated With No Issues = 169

Blocks Converted = 16

Blocks Not Migrated or Converted = 7

Blocks Migrated With Issues = 44

Issues:

Block types not supported = 7
Links not found = 71
Units not migrated = 0
Setpoint outside defined Limits = 0
Trend object issues = 0
Schedule object issues = 1
Poll object issues = 0
ASD Network items with address issues = 0

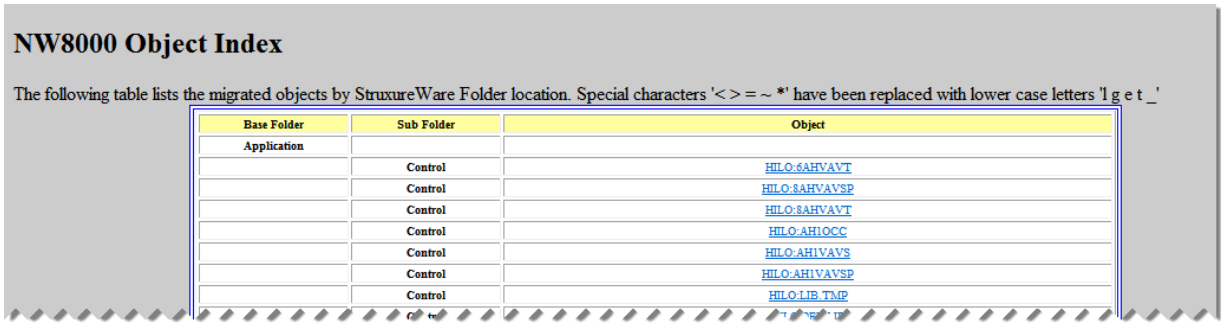
Figure: Top section of migration full report

Table: Top Section of Migration Full Report

Component	Description
Total Blocks	Displays the total number of blocks in the GCM application. This is the sum of Blocks not Migrated or Converted + Blocks Converted + Blocks Migrated with Issues + Blocks Migrated Completely.
Blocks Migrated With No Issues	Displays the total number of blocks completely migrated.
Blocks Converted	Displays the total number of blocks converted.
Blocks Not Migrated or Converted	Displays the total number of blocks not migrated or converted.
Blocks Migrated With Issues	Displays the total number of blocks migrated with issues. These are migrated blocks but are indicated with a red error message for at least one property.
Issues	Displays the total issues found in the migration, broken down by the type of issue.

3.3.1 NW8000 Object Index

Use the index and click the link to quickly get to the full report for that object. Lists the migrated objects and provides a link to the objects for each NETWORK 8000 block. The blocks are organized in alphabetical order in the Base Folder and Sub-folders under the NW8000 Interface in Building Operation. Click the link to go directly to the object report.


NW8000 Object Index

The following table lists the migrated objects by StruxureWare Folder location. Special characters '< > = ~ *' have been replaced with lower case letters 'l g e t _'

Base Folder	Sub Folder	Object
Application		
	Control	HILO:6AHVAVT
	Control	HILO:8AHVAVSP
	Control	HILO:8AHVAVT
	Control	HILO:AH1OCC
	Control	HILO:AH1VAVS
	Control	HILO:AH1VAVSP
	Control	HILO:LIB_TMP

Figure: NW8000 Object Index section.

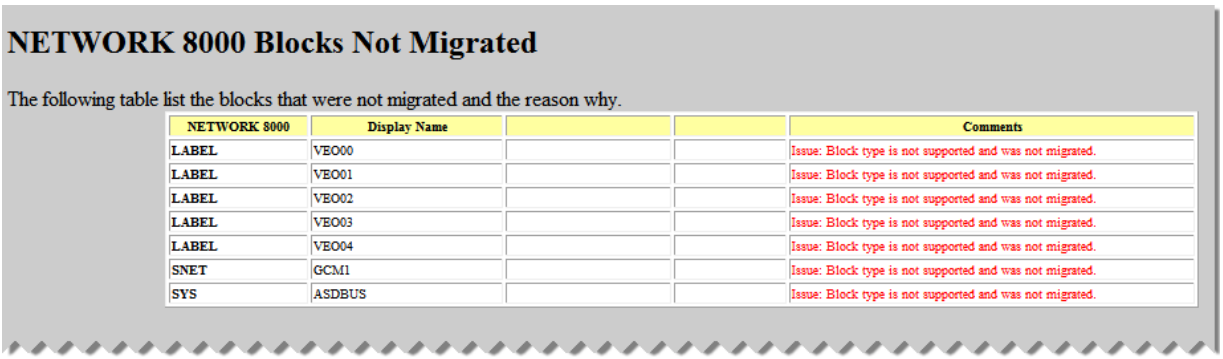
Table: NW8000 Object Index

Component	Description
Base Folder	Lists the folders under the NW8000 Interface in Building Operation.
Sub Folder	Lists the sub-folders under the Base folder.
Object	Lists the migrated objects.

Component	Description

3.3.2 NETWORK 8000 Blocks Not Migrated

Use the NETWORK 8000 Blocks Not Migrated section of the Full report to view information about blocks that are not migrated or converted because the block types are not supported.



NETWORK 8000 Blocks Not Migrated

The following table list the blocks that were not migrated and the reason why.

NETWORK 8000	Display Name			Comments
LABEL	VEO00			Issue: Block type is not supported and was not migrated.
LABEL	VEO01			Issue: Block type is not supported and was not migrated.
LABEL	VEO02			Issue: Block type is not supported and was not migrated.
LABEL	VEO03			Issue: Block type is not supported and was not migrated.
LABEL	VEO04			Issue: Block type is not supported and was not migrated.
SNET	GCM1			Issue: Block type is not supported and was not migrated.
SYS	ASDBUS			Issue: Block type is not supported and was not migrated.

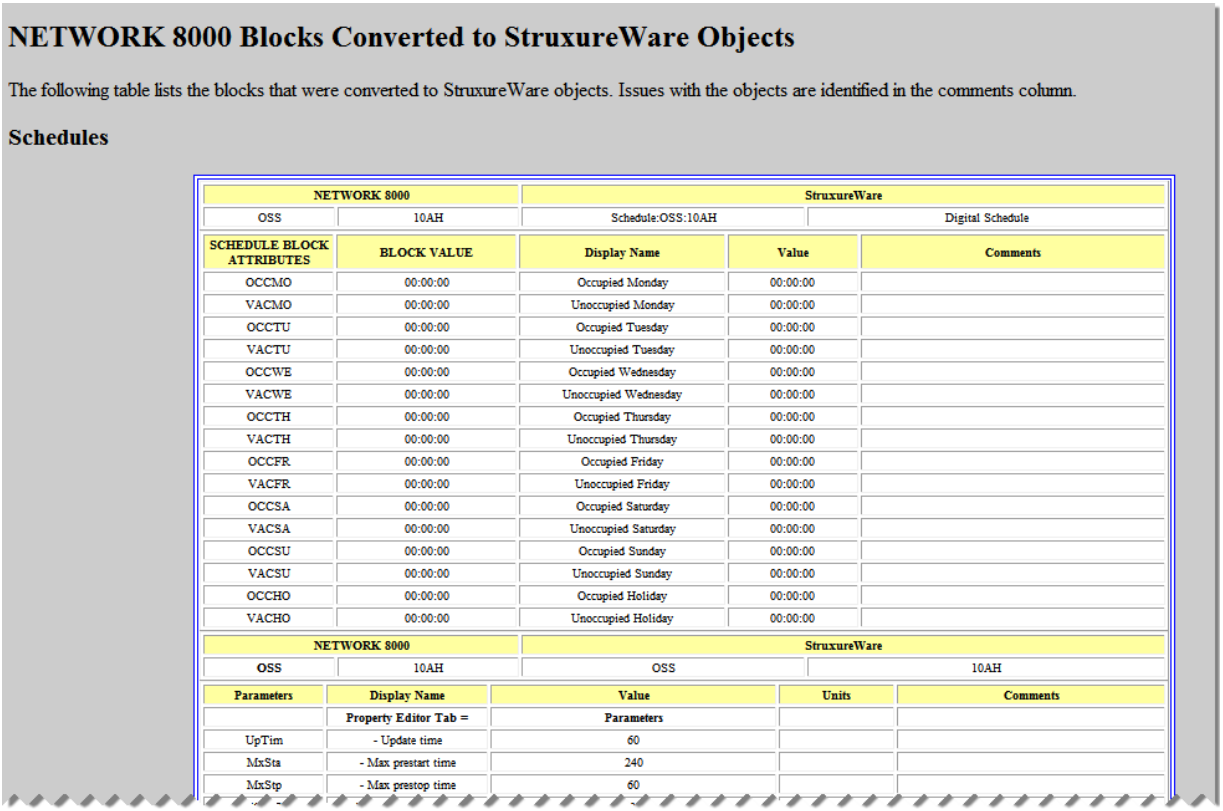
Figure: NETWORK 8000 Blocks not Migrated section

Component	Description
NETWORK 8000	Lists the NETWORK 8000 blocks that did not migrate to Building Operation.
Display Name	Lists the display name of the block.
Comments	Lists why the block did not migrate.

3.3.3 NETWORK 8000 Blocks Converted to Building Operation Objects

Use the NETWORK 8000 Blocks Converted to Building Operation Objects section of the Migration Full report to view details about GCM blocks that were converted to Building Operation objects. The section lists the successfully converted objects, their property values, and units that were converted from the NETWORK 8000 backup database. Building Operation adds NW8000 Interface names to the original NETWORK 8000 block names during the conversion. For example, the CALEN:APR-OCT block becomes Schedule:CALEN:APR-OCT.

Additional NW8000 Interface objects are required for some converted schedule objects. For more information, see section 1.8 “Additional Objects for Converted Schedule Blocks” on page 21.



NETWORK 8000 Blocks Converted to StruxureWare Objects

The following table lists the blocks that were converted to StruxureWare objects. Issues with the objects are identified in the comments column.

Schedules

NETWORK 8000		StruxureWare		
OSS	10AH	Schedule:OSS:10AH		Digital Schedule
SCHEDULE BLOCK ATTRIBUTES	**BLOCK VALUE**	**Display Name**	**Value**	**Comments**
OCCMO	00:00:00	Occupied Monday	00:00:00	
VACMO	00:00:00	Unoccupied Monday	00:00:00	
OCCTU	00:00:00	Occupied Tuesday	00:00:00	
VACTU	00:00:00	Unoccupied Tuesday	00:00:00	
OCCWE	00:00:00	Occupied Wednesday	00:00:00	
VACWE	00:00:00	Unoccupied Wednesday	00:00:00	
OCCTH	00:00:00	Occupied Thursday	00:00:00	
VACTH	00:00:00	Unoccupied Thursday	00:00:00	
OCCFR	00:00:00	Occupied Friday	00:00:00	
VACFR	00:00:00	Unoccupied Friday	00:00:00	
OCCSA	00:00:00	Occupied Saturday	00:00:00	
VACSA	00:00:00	Unoccupied Saturday	00:00:00	
OCCSU	00:00:00	Occupied Sunday	00:00:00	
VACSU	00:00:00	Unoccupied Sunday	00:00:00	
OCCHO	00:00:00	Occupied Holiday	00:00:00	
VACHO	00:00:00	Unoccupied Holiday	00:00:00	

NETWORK 8000		StruxureWare	
OSS	10AH	OSS	10AH

Parameters	Display Name	Value	Units	Comments
	Property Editor Tab =	Parameters		
UpTim	- Update time	60		
MxSta	- Max prestart time	240		
MxStp	- Max prestop time	60		

Figure: NETWORK 8000 Blocks Converted to Building Operation Objects section.

Table: NETWORK 8000 Blocks Converted to Building Operation Objects

Component	Description
NETWORK 8000	Lists the GCM block, its **Block Attributes** and **Block Value**.
StruxureWare	Displays the object type, its **Display Name**, **Value,** and any **Comments** associated with the object that has an issue with the migration.
NETWORK 8000 – Parameters	Lists the parameters of the block.
NETWORK 8000 – Display Name	Lists the name of the block.
Building Operation – Value	Lists the tabs within the NW8000 Interface object properties and the values of each property.
Building Operation – Units	Lists the units of the object.

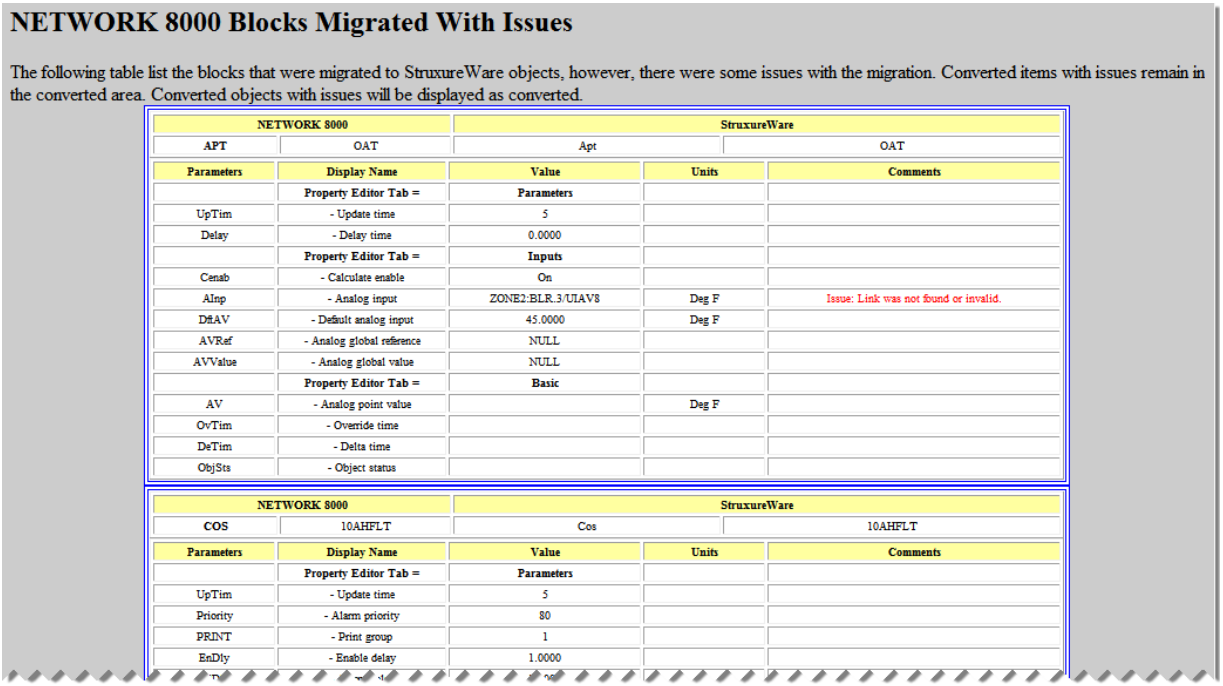
Component	Description

Table: NETWORK 8000 Blocks Converted to Building Operation Objects

Block Name	Converted Object Name	Additional Interface Objects Required (Dpt and/or SlectAv or Oss)	Additional Interface Objects Required (Dpt and/or SlectAv or Oss)
CALEN:APR-OCT	Schedule:CALEN:APR-OCT	Dpt:CALEN:APR-OCT	SlectAv:CALEN:APR-OCT
DAILY:ALL10	Schedule:DAILY:ALL10	Dpt:DAILY:ALL10	SlectAv:DAILY:ALL10
HOLI:NSP_ALRM	Schedule:HOLI:NSP_ALRM	Dpt:HOLI:NSP_ALRM	–
OSS:ALL55	Schedule:OSS:ALL55	OSS:ALL55	–
WEEK:301	Schedule:WEEK:301	Dpt:WEEK:301	–
TREND:DAY	Trend:DAY:1 Trend:DAY:2 Trend:DAY:3	–	–
POLL:ALL70	Apt:POLL ALL70	–	–

3.3.4 NETWORK 8000 Blocks Migrated With Issues

Use the NETWORK 8000 Blocks Migrated With Issues section of the Full report to view any issues that occurred during the migration and conversion. These issues are indicated by red text in the last column of the Building Operation object tables. You can use the browser's Find function to locate the issues. You can also search for issues in the Migration Cross Reference report. For more information, see section 3.4 "GCM Cross Reference Report" on page 62.



NETWORK 8000 Blocks Migrated With Issues

The following table list the blocks that were migrated to StruxureWare objects, however, there were some issues with the migration. Converted items with issues remain in the converted area. Converted objects with issues will be displayed as converted.

NETWORK 8000		StruxureWare		
APT	OAT	Apt	OAT	
Parameters	**Display Name**	**Value**	**Units**	**Comments**
	Property Editor Tab =	**Parameters**		
UpTim	- Update time	5		
Delay	- Delay time	0.0000		
	Property Editor Tab =	**Inputs**		
Cenab	- Calculate enable	On		
AInp	- Analog input	ZONE2:BLR.3/UIAV8	Deg F	Issue: Link was not found or invalid.
DfltAV	- Default analog input	45.0000	Deg F	
AVRef	- Analog global reference	NULL		
AVValue	- Analog global value	NULL		
	Property Editor Tab =	**Basic**		
AV	- Analog point value		Deg F	
OvTim	- Override time			
DeTim	- Delta time			
ObjSts	- Object status			

NETWORK 8000		StruxureWare		
COS	10AHFLT	Cos	10AHFLT	
Parameters	**Display Name**	**Value**	**Units**	**Comments**
	Property Editor Tab =	**Parameters**		
UpTim	- Update time	5		
Priority	- Alarm priority	80		
PRINT	- Print group	1		
EnDly	- Enable delay	1.0000		

Figure: NETWORK 8000 Blocks Migrated With Issues section.

Table: NETWORK 8000 Blocks Migrated With Issues

Component	Description
NETWORK 8000	Lists the GCM block, its **Parameters** and **Display Name**.
StruxureWare	Displays the object type, its **Value, Units**, and any **Comments** associated with the object that has an issue with the migration. The objects
NETWORK 8000 – Parameters	Lists the parameters of the block.
NETWORK 8000 – Display Name	Lists the name of the block.
Building Operation – Value	Lists the tabs within the NW8000 Interface object properties and the values of each property.
Building Operation – Units	Lists the units of the object.

The following table lists the possible issues that can appear in the Comments section of the report.

Table: NETWORK 8000 Blocks Issues

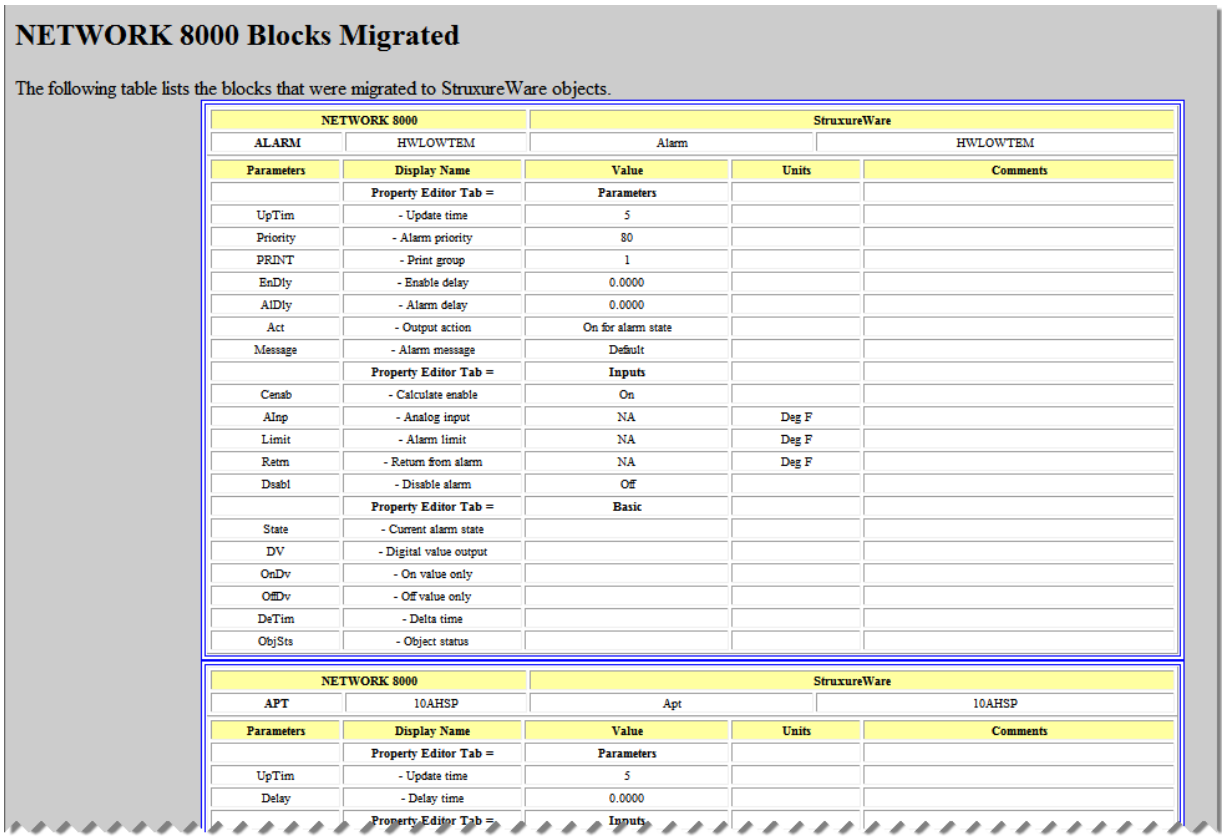
Issue	Definition
Block type is not supported and was not migrated.	The block type is not supported in Building Operation. Therefore it was not migrated.

Continued

Issue	Definition
To use Start and Stop time, you must create a Schedule.	A schedule is required for start/stop to be added for the start and stop functions.
The block is missing a trigger link.	The trend trigger pointer was missing.
Clearing trend capture data is not supported.	Clearing Trend data with an input value is not supported in Building Operation.
Schedule Item migrated as...	Schedule items are converted to Building Operation schedules.
The block has no defined links.	Reference pointers for this block were not defined.
Link was not found or invalid.	The referenced block is missing or it was not migrated.
Units type was not migrated.	Only predefined units of measure are migrated. Custom units are not.
Defined value outside Default Range!	The value could not be migrated as it was not within the allowed range.
Trend block not converted it has no defined log points.	This TREND block had no input pointers and it was not used.
Link not found!	The block for this reference pointer was not found.
Unable to map to Holiday or Calendar block.	The holiday input (HOLID) pointed to a block type other than HOLI or CALEN.
The block is missing a trend trigger.	The required trend trigger link was not found.
Link is external to this unit.	The referenced point could not be created within this Building Operation database. You need to create this reference manually.
Schedules have been combined, reference removed.	Linked schedule blocks are combined into a single Building Operation schedule object where possible.
Schedule output is not used.	The schedule is not used in this application.
Building Operation will not trend strings.	This migration does not support string trends.

3.3.5 NETWORK 8000 Blocks Migrated

Use the NETWORK 8000 Blocks Migrated section of the Full report to view details about each Building Operation object that was successfully migrated directly from a NETWORK 8000 block. Each block has its own table in the report. The table is organized by the tabs in the Properties dialog box. The report lists the objects, their property values, and units that were migrated from the NETWORK 8000 backup database.



NETWORK 8000 Blocks Migrated

The following table lists the blocks that were migrated to StruxureWare objects.

NETWORK 8000		StruxureWare		
ALARM	HWLOWTEM	Alarm		HWLOWTEM
Parameters	**Display Name**	**Value**	**Units**	**Comments**
	Property Editor Tab =	**Parameters**		
UpTim	- Update time	5		
Priority	- Alarm priority	80		
PRINT	- Print group	1		
EnDly	- Enable delay	0.0000		
AlDly	- Alarm delay	0.0000		
Act	- Output action	On for alarm state		
Message	- Alarm message	Default		
	Property Editor Tab =	**Inputs**		
Cenab	- Calculate enable	On		
AInp	- Analog input	NA	Deg F	
Limit	- Alarm limit	NA	Deg F	
Retrn	- Return from alarm	NA	Deg F	
Dsabl	- Disable alarm	Off		
	Property Editor Tab =	**Basic**		
State	- Current alarm state			
DV	- Digital value output			
OnDv	- On value only			
OffDv	- Off value only			
DeTim	- Delta time			
ObjSts	- Object status			

NETWORK 8000		StruxureWare		
APT	10AHSP	Apt		10AHSP
Parameters	**Display Name**	**Value**	**Units**	**Comments**
	Property Editor Tab =	**Parameters**		
UpTim	- Update time	5		
Delay	- Delay time	0.0000		
	Property Editor Tab =	**Inputs**		

Figure: NETWORK 8000 Blocks Migrated section.

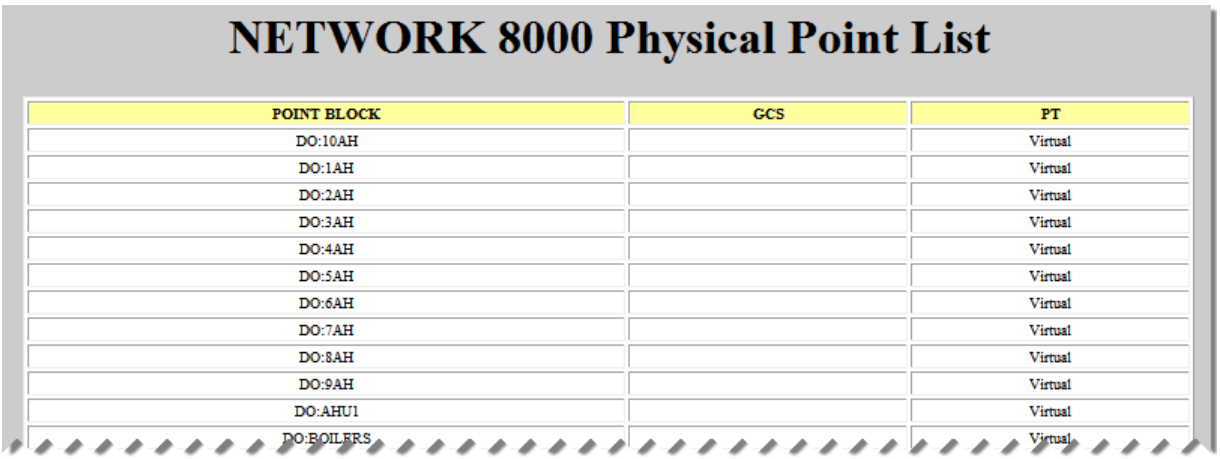
Table: NETWORK 8000 Blocks Migrated

Component	Description
NETWORK 8000	Lists the GCM block, its **Parameters** and **Display Name**.
StruxureWare	Displays the object type, its **Value, Units**, and any **Comments** associated with the object that has an issue with the migration. The objects
NETWORK 8000 – Parameters	Lists the parameters of the block.
NETWORK 8000 – Display Name	Lists the name of the block.
StruxureWare – Value	Lists the tabs within the NW8000 Interface object properties and the values of each property.
StruxureWare – Units	Lists the units of the object.

Component	Description

3.3.6 NETWORK 8000 Physical Point List

Use the NETWORK 8000 Physical Point List section of the Full report to view a list of inputs and outputs from the GCM. The list shows all physical point objects with either a virtual address or a real GCS physical point address. The ASD GCM supports only virtual I/O point objects.



NETWORK 8000 Physical Point List

POINT BLOCK	GCS	PT
DO:10AH		Virtual
DO:1AH		Virtual
DO:2AH		Virtual
DO:3AH		Virtual
DO:4AH		Virtual
DO:5AH		Virtual
DO:6AH		Virtual
DO:7AH		Virtual
DO:8AH		Virtual
DO:9AH		Virtual
DO:AHU1		Virtual
DO:BOILERS		Virtual

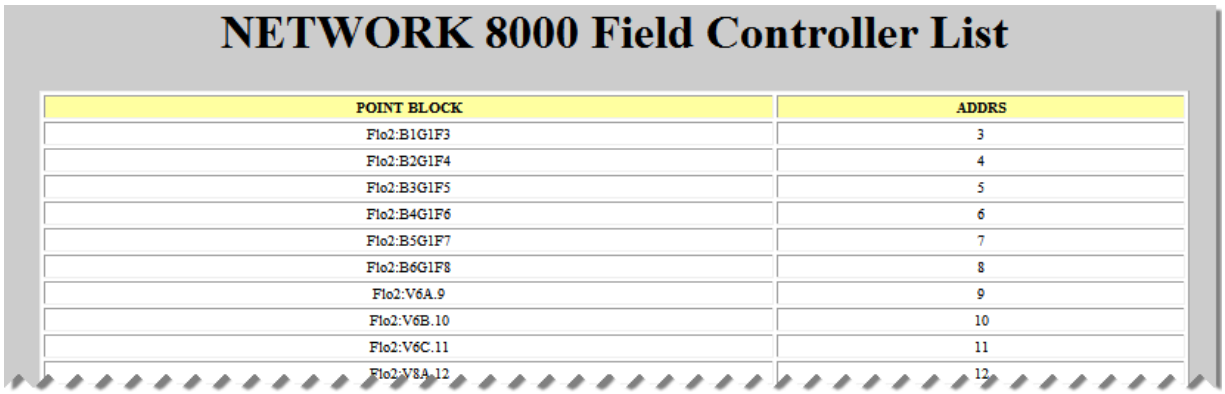
Figure: NETWORK 8000 Pysical Point List section.

Table: NETWORK 8000 Physical Point List

Component	Description
Point Block	Lists the name of the point block.
GCS	Lists the address for the GCS where the physical points resides. This is empty if the point is a pseudo-point.
PT	Lists the slot on the GCS of the physical point. This is listed as **Virtual** if it is a virtual I/O point.

3.3.7 NETWORK 8000 Field Controller List

The Field Controller List section of the Full report contains all the device objects in the database with a network address.



NETWORK 8000 Field Controller List

POINT BLOCK	ADDRS
Flo2:B1G1F3	3
Flo2:B2G1F4	4
Flo2:B3G1F5	5
Flo2:B4G1F6	6
Flo2:B5G1F7	7
Flo2:B6G1F8	8
Flo2:V6A.9	9
Flo2:V6B.10	10
Flo2:V6C.11	11
Flo2:V8A.12	12

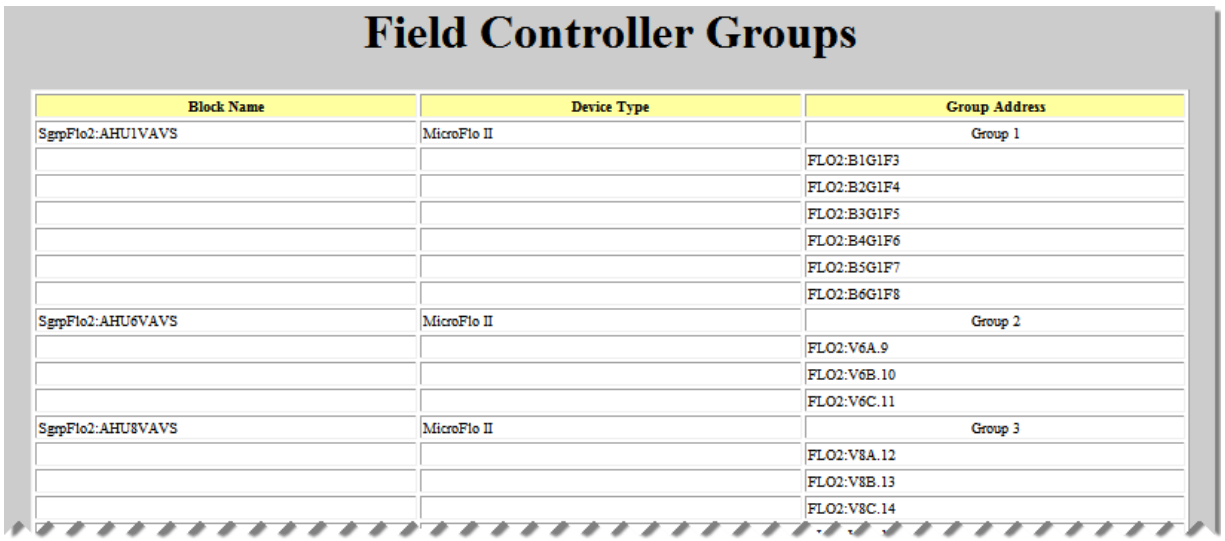
Figure: NETWORK 8000 Field Controller List section.

Table: NETWORK 8000 Field Controller List

Component	Description
POINT BLOCK	Lists the name of the device object.
ADDRS	Lists the address of the controller, which is determined by a DIP switch setting on the device.

3.3.8 Field Controller Groups

Use the Field Controller Groups section of the Full report to view the address configuration of all Sgrp2 and SgrpFlo2 objects. The objects are used for mass communications to a group of ASD type devices. For the SgrpFlo2 objects, all Flo2 objects configured for the same group are listed.



Field Controller Groups

Block Name	Device Type	Group Address
SgrpFlo2:AHU1VAVS	MicroFlo II	Group 1
		FLO2:B1G1F3
		FLO2:B2G1F4
		FLO2:B3G1F5
		FLO2:B4G1F6
		FLO2:B5G1F7
		FLO2:B6G1F8
SgrpFlo2:AHU6VAVS	MicroFlo II	Group 2
		FLO2:V6A.9
		FLO2:V6B.10
		FLO2:V6C.11
SgrpFlo2:AHU8VAVS	MicroFlo II	Group 3
		FLO2:V8A.12
		FLO2:V8B.13
		FLO2:V8C.14

Figure: Field Controller Groups section.

Table: Field Controller Groups

Component	Description
Block Name	Lists the name of the NETWORK 8000 block.
Device Type	Lists the ASD device types on the network.
Group Address	Lists the addresses of each group.

3.3.9 Other Links (Outside Building Operation)

Use the Other Links (Outside Building Operation) section of the Full report to view the interface objects that can obtain or send information outside the NW8000 Interface. These objects can obtain values from any object in Building Operation. Also listed are the objects that obtain or send values to the LCMs on the LCM network (PollAv, PollDv, RlcmAv, RlcmDv, and Sgcm objects).

You should verify that the links are available to the Building Operation. The links are usually available because the values come from devices that are connected to the Automation Server network. However, if a link, such as an Rnet object, comes from another GCM, the link can become an issue if the GCM is replaced at a later time with an Automation Server.

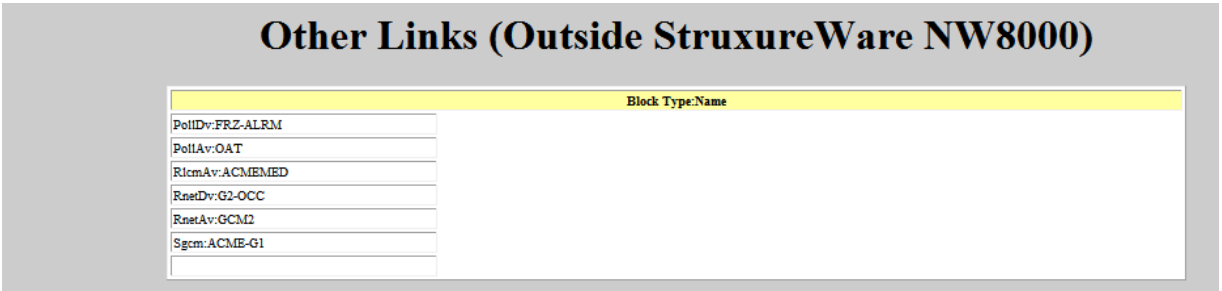


Figure: Other Links (Outside Building Operation NW8000) section.

Table: Other Links (Outside Building Operation NW8000)

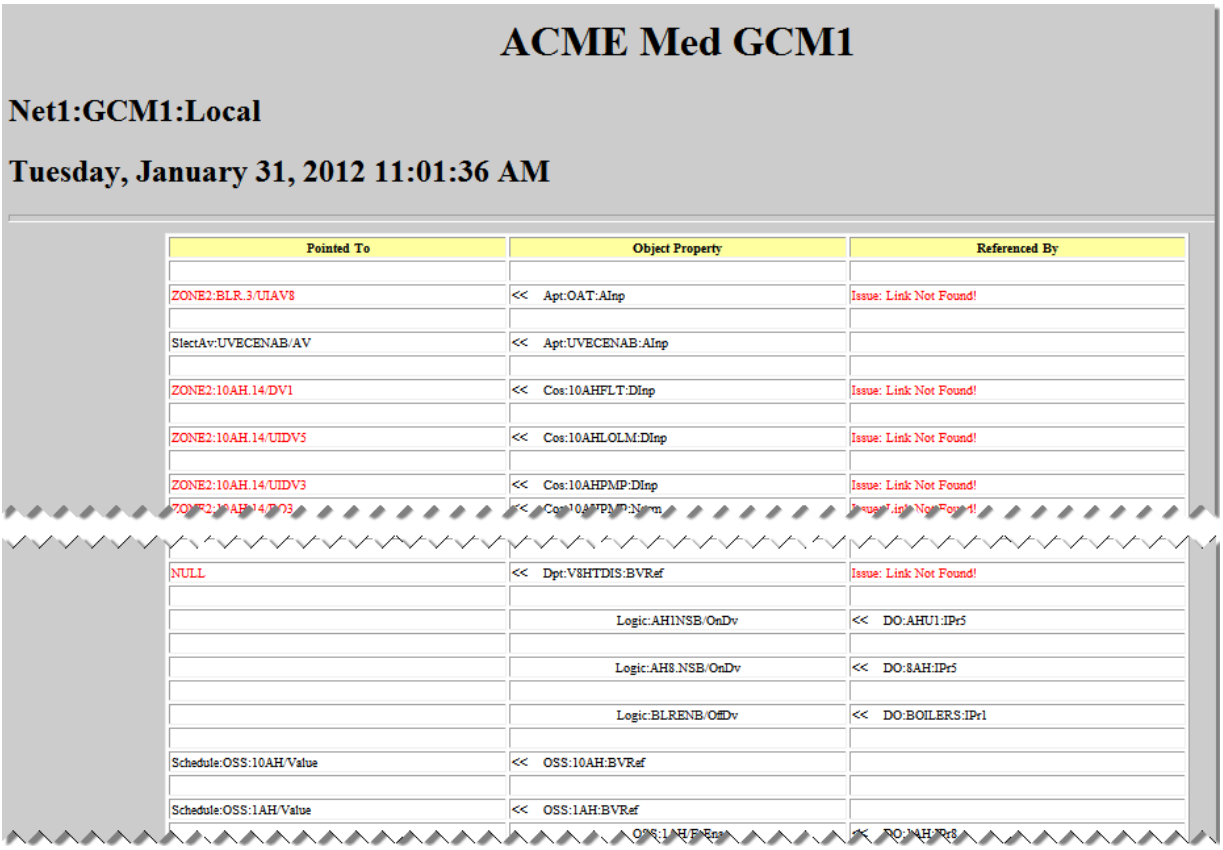
Component	Description
Block Type:Name	Lists the block type and its name.

3.4 GCM Cross Reference Report

Use the Cross Reference (CR) report to view the property references in the Automation Server that were created by the TAC I/A Series Conversions Tool during the database migration. The center column of the table lists all object properties being referenced or referencing in the center column. Migrated object properties are listed first by alphabetical order, followed by object properties that were created by the conversion, which are listed by order of creation.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.



ACME Med GCM1

Net1:GCM1:Local

Tuesday, January 31, 2012 11:01:36 AM

Pointed To	Object Property	Referenced By
ZONE2:BLR.3/UIAV8	<< Apt:OAT:AInp	Issue: Link Not Found!
SlectAv:UVECENAB/AV	<< Apt:UVECENAB:AInp	
ZONE2:10AH.14/DV1	<< Cos:10AHFLT:DInp	Issue: Link Not Found!
ZONE2:10AH.14/UIDV5	<< Cos:10AHLOLM:DInp	Issue: Link Not Found!
ZONE2:10AH.14/UIDV3	<< Cos:10AHPMP:DInp	Issue: Link Not Found!
NULL	<< Dpt:V8HTDIS:BVRef	Issue: Link Not Found!
	Logic:AH1NSB/OnDv	<< DO:AHU1:IPr5
	Logic:AH8.NSB/OnDv	<< DO:8AH:IPr5
	Logic:BLRENB/OffDv	<< DO:BOILERS:IPr1
Schedule:OSS:10AH/Value	<< OSS:10AH:BVRef	
Schedule:OSS:1AH/Value	<< OSS:1AH:BVRef	

Figure: Migration Cross Reference report

Table: Migration Cross Reference Report

Component	Description
Pointed To	Lists output properties that are referenced (pointed to) by an input property of an object.

Continued

Component	Description
Object Property	Lists all properties that have references that were made by the TAC I/A Series Conversions Tool. Properties in this column that are inputs are left-justified, have << characters in front of them, and point to output properties in the left column. Output properties are center justified to distinguish them from inputs.
Referenced By	Lists object input properties, preceded with << characters indicating that they point to outputs in the center column.

The Cross Reference report can contain the issue message, "Issue: Link Not Found!," which is shown in red text. For example, if a NETWORK 8000 pointer was pointing to an object that was not migrated to Building Operation, the deleted block is listed with the error message. You can search for issues in the GCM Migration Full report using the search feature of your browser.

For more information, see section 3.3 “GCM Migration Full Report” on page 51.

3.5 GCM MICROFLO II Configuration Report

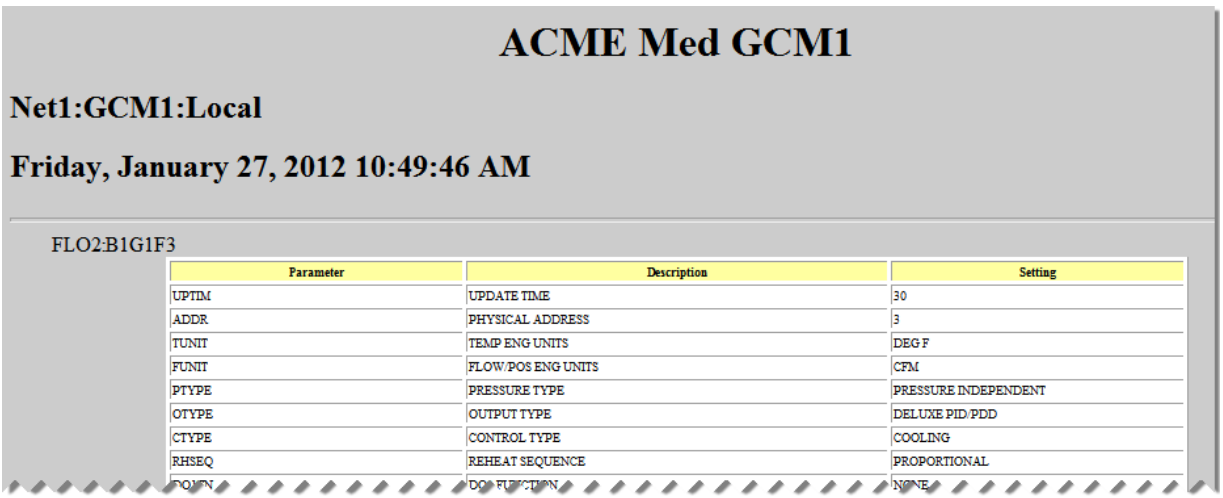
Use the MICROFLO II Configuration (Flo) report to view the configuration data of MICROFLO II devices on the ASD network. This information can be used when replacing a MICROFLO II device.

MICROFLO II device configurations are automatically stored in the GCM FLO2 block. This feature provides a backup of the configuration and the ability to change the configuration of the MICROFLO II with the GCM block editor. After the GCM is replaced with an Automation Server and the database is migrated to Building Operaion, this feature is no longer available.

The configuration data of ASD devices is not backed up in the Automation Server. Nor does the Flo2 object in the Automation Server contain the configuration values of the MICROFLO II device. In Building Operaion, the XPSI/PSI tool is used to configure and backup the database configuration of all ASD devices, including the MICROFLO II. You use the Configuration report, along with XPSI/PSI, to configure the new device (including balance data) when you replace a MICROFLO II. All attribute values are listed in the report even if they are not used for the particular configuration. Therefore, you should save the report for future reference.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.



ACME Med GCM1

Net1:GCM1:Local

Friday, January 27, 2012 10:49:46 AM

FLO2:B1G1F3

Parameter	Description	Setting
UPTIM	UPDATE TIME	30
ADDR	PHYSICAL ADDRESS	3
TUNIT	TEMP ENG UNITS	DEG F
FUNIT	FLOW/POS ENG UNITS	CFM
PTYPE	PRESSURE TYPE	PRESSURE INDEPENDENT
OTYPE	OUTPUT TYPE	DELUXE PID/PDD
CTYPE	CONTROL TYPE	COOLING
RHSEQ	REHEAT SEQUENCE	PROPORTIONAL
[illegible]	[illegible]	NONE

Figure: Migration MICROFLO II Configuration report

Table: Migration MICROFLO II Configuration Report

Item	Description
Block Type and Name	Displays the block type and name in the device.
Parameter	Lists the GCM parameter.
Description	Lists the description of the parameter.

Continued

Item	Description
Setting	Lists the set (designated) value of the parameter.

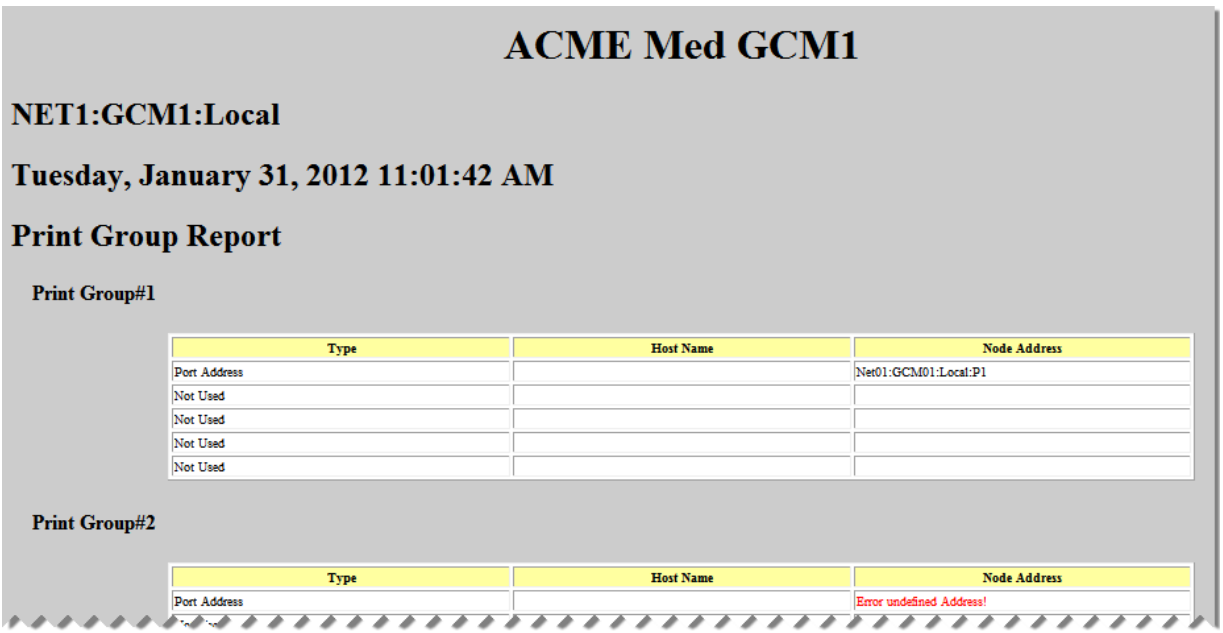
3.6 GCM Print Group Report

Use the Migration Print Group report to view the print groups that reside in the GCM. The GCM uses print groups to store lists of names or addresses of places to route alarms, exceptions (alerts), and reports. Examples of these routing addresses would be a host software or a printer. Print groups are not used in Building Operation. However, the Print Group Report provides information that could be used to locate these former reporting locations.

For more information, see section 3.3 “GCM Migration Full Report” on page 51.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.



ACME Med GCM1

NET1:GCM1:Local

Tuesday, January 31, 2012 11:01:42 AM

Print Group Report

Print Group#1

Type	Host Name	Node Address
Port Address		Net01:GCM01:Local:P1
Not Used		
Not Used		
Not Used		
Not Used		

Print Group#2

Type	Host Name	Node Address
Port Address		Error undefined Address!

Figure: Migration Print Group report

Table: Migration Print Group Report

Component	Description
Print Group#	Displays the print group number in the GCM.
Type	Lists either a host name or a port address.
Host Name	Lists the name of the host.
Node Address	Lists the address of the port.

3.7 GCM View/Edit/Override Report

Use the View/Edit/Override (VEO) report to view the Current Status and VEO screens that are available in a GCM. This report documents the local VEO display screens and the block attributes that are on those screens. The LABEL block defines user string names, which are called Labels, for both the screen and the properties displayed on the screen. If a LABEL block exists for a VEO screen, the label is listed in the report next to the attribute name. The current Status screen is VEO00.

Because the LABEL block is not supported in Building Operation, you will need to duplicate the functionality in Building Operation.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.

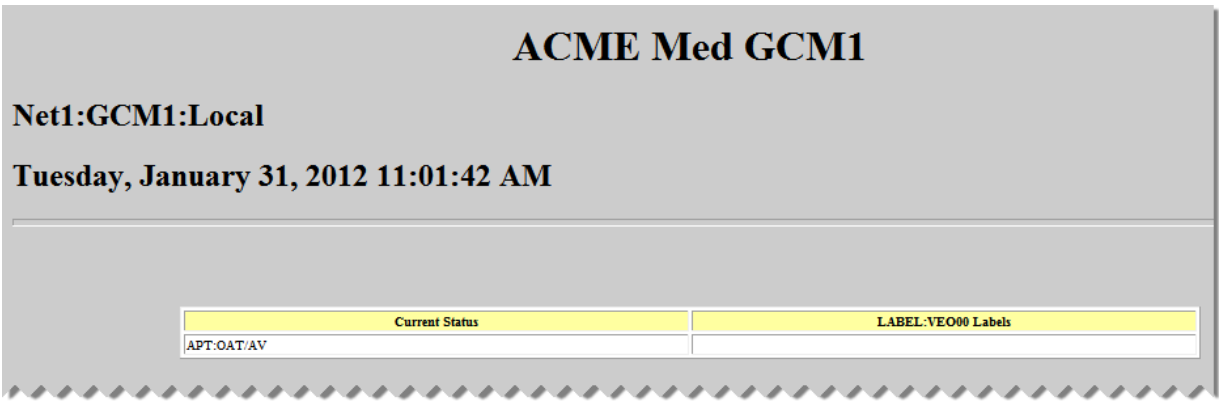


Figure: Migration View/Edit/Override report

Table: Migration View/Edit/Override report

Item	Description
Current Status	Lists the GCM attribute names.
Label:	Lists the label that appears on the GCM screen as defined by a LABEL block, if it exists.

3.8 Signal Migration Summary Report

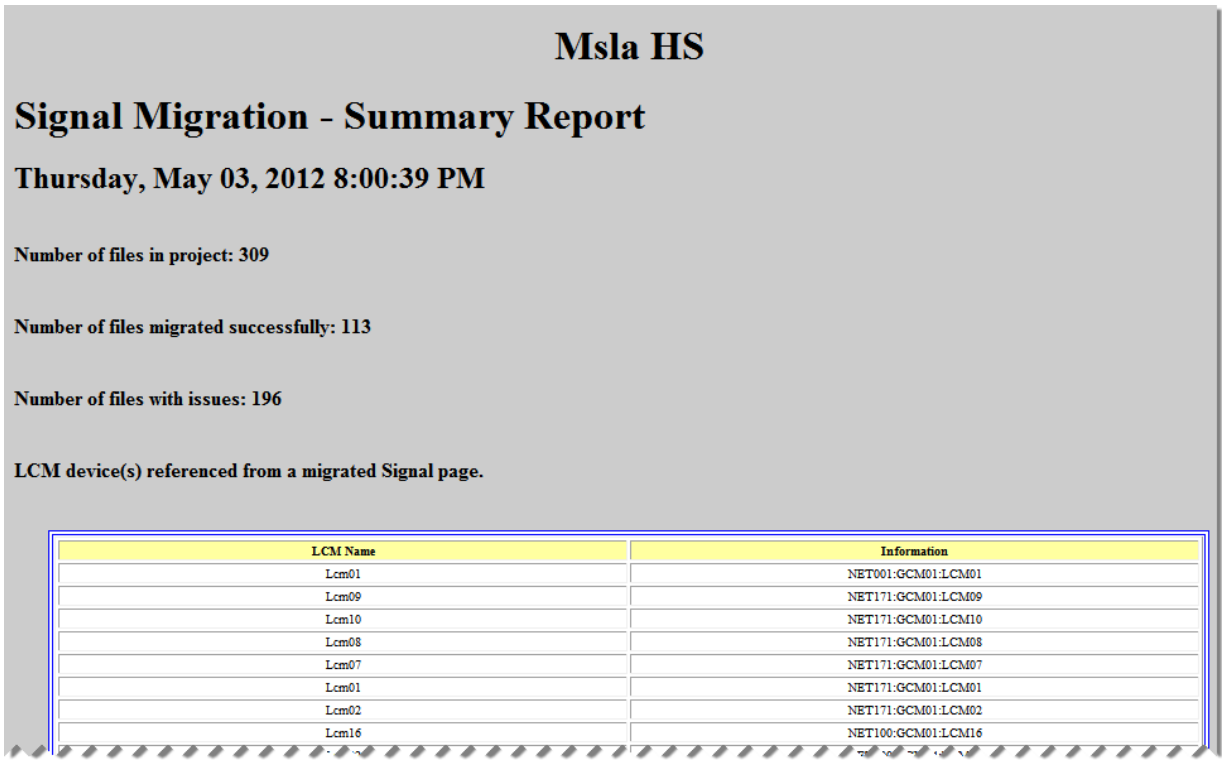
Use the Signal Migration Summary report to review the potential success of the migration. The report lists the quantity of successes and failures, along with lists of the block names that succeeded or failed. After reviewing this report, you can purchase the other reports and import file, or decide to address any of the issues that occurred before completing the migration. For example, if the report shows that several blocks have issues, you can decide to fix the blocks before the migration.

For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

For more information, see section 3.3 “GCM Migration Full Report” on page 51.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.



Msla HS

Signal Migration - Summary Report

Thursday, May 03, 2012 8:00:39 PM

Number of files in project: 309

Number of files migrated successfully: 113

Number of files with issues: 196

LCM device(s) referenced from a migrated Signal page.

LCM Name	Information
Lcm01	NET001:GCM01:LCM01
Lcm09	NET171:GCM01:LCM09
Lcm10	NET171:GCM01:LCM10
Lcm08	NET171:GCM01:LCM08
Lcm07	NET171:GCM01:LCM07
Lcm01	NET171:GCM01:LCM01
Lcm02	NET171:GCM01:LCM02
Lcm16	NET100:GCM01:LCM16

Figure: Top portion of the Summary Report

Table: Signal Migration Summary Report

Component	Description
Number of files in the migration	Displays the total number of files in the Signal database.
Number of files migrated successfully	Displays the total number migrated.

Continued

Component	Description
Number of files with issues	Displays the total number of files with issues.
LCM device(s) referenced from a migrated Signal page	Displays LCM Name and the information about the LCM points that are referenced from a Signal page.
Project files with migration issues	Displays the Signal file, its point type, and the issue related to the migration.
Project files migrated without issues	Displays the migrated Signal files that do not have issues.

3.9 Signal Migration Point Report

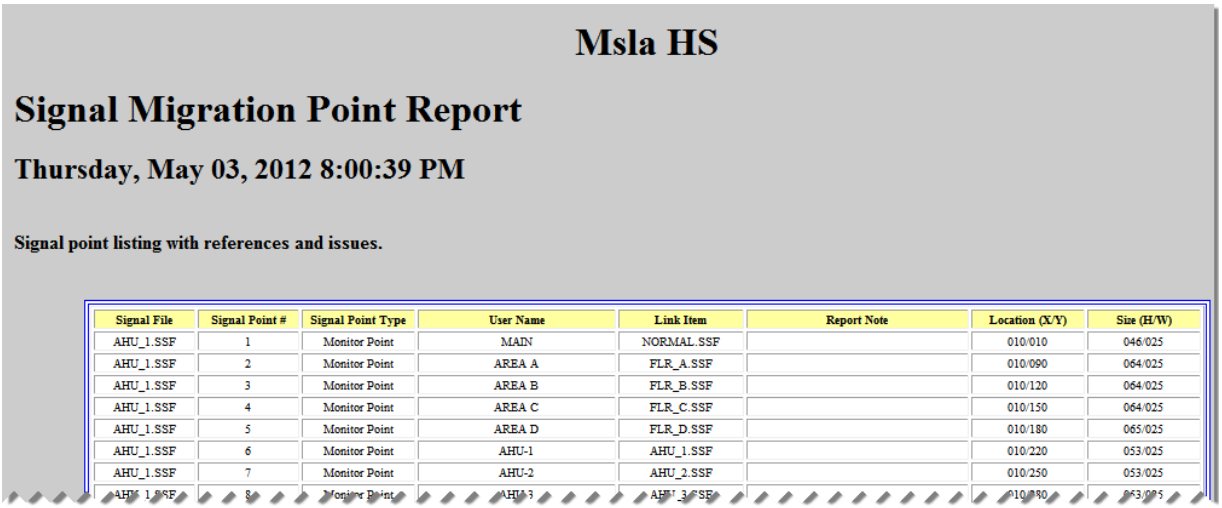
Use the Signal Migration Point report to view all Signal points. The report lists the points in the Signal database, their references, and issues, if any.

For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

For more information, see section 3.3 “GCM Migration Full Report” on page 51.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.



Msla HS

Signal Migration Point Report

Thursday, May 03, 2012 8:00:39 PM

Signal point listing with references and issues.

Signal File	Signal Point #	Signal Point Type	User Name	Link Item	Report Note	Location (X/Y)	Size (H/W)
AHU_1.SSF	1	Monitor Point	MAIN	NORMAL.SSF		010/010	046/025
AHU_1.SSF	2	Monitor Point	AREA A	FLR_A.SSF		010/090	064/025
AHU_1.SSF	3	Monitor Point	AREA B	FLR_B.SSF		010/120	064/025
AHU_1.SSF	4	Monitor Point	AREA C	FLR_C.SSF		010/150	064/025
AHU_1.SSF	5	Monitor Point	AREA D	FLR_D.SSF		010/180	065/025
AHU_1.SSF	6	Monitor Point	AHU-1	AHU_1.SSF		010/220	053/025
AHU_1.SSF	7	Monitor Point	AHU-2	AHU_2.SSF		010/250	053/025
AHU_1.SSF	8	Monitor Point	AHU-3	AHU_3.SSF		010/280	053/025

Figure: Top portion of the Summary Report

Table: Signal Migration Poiint Report

Component	Description
Signal File	Displays the total number migrated.
Signal Point #	Displays the total number of files with issues.
Signal Point Type	Displays the type of this point.
User Name	Displays the alias name of this point. In Signal this is known as Verbose.
Link Item	Displays the screen to transfer to if the point type is Monitor Point.
Report Note	Displays any notes associated with the file including information about issues.
Location (X/Y)	Displays the location of the point anchor on the graphic screen.

Continued

Component	Description
Size (H/W)	Displays the height and width of the point on the graphic screen.

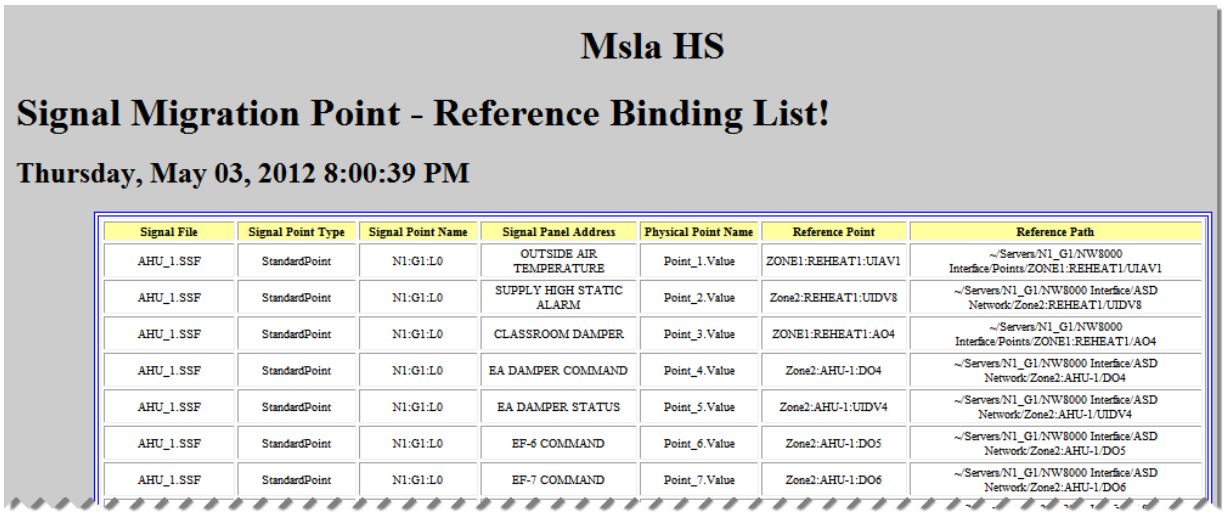
3.10 Signal Migration Point Reference Binding List

Use the Signal Migration Point Reference Binding List report to view the point bindings in the Signal database. You use this report to verify or fix bindings between the Enterprise Server and Automation Servers. The text in the Reference Path column can be copy and pasted into the bindings as needed.

For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.



Msla HS

Signal Migration Point - Reference Binding List!

Thursday, May 03, 2012 8:00:39 PM

Signal File	Signal Point Type	Signal Point Name	Signal Panel Address	Physical Point Name	Reference Point	Reference Path
AHU_1.SSF	StandardPoint	N1:G1:L0	OUTSIDE AIR TEMPERATURE	Point_1.Value	ZONE1:REHEAT1:UIAV1	~/Servers/N1_G1/NW8000 Interface/Points/ZONE1:REHEAT1/UIAV1
AHU_1.SSF	StandardPoint	N1:G1:L0	SUPPLY HIGH STATIC ALARM	Point_2.Value	Zone2:REHEAT1:UIDV8	~/Servers/N1_G1/NW8000 Interface/ASD Network/Zone2:REHEAT1/UIDV8
AHU_1.SSF	StandardPoint	N1:G1:L0	CLASSROOM DAMPER	Point_3.Value	ZONE1:REHEAT1:AO4	~/Servers/N1_G1/NW8000 Interface/Points/ZONE1:REHEAT1/AO4
AHU_1.SSF	StandardPoint	N1:G1:L0	EA DAMPER COMMAND	Point_4.Value	Zone2:AHU-1:DO4	~/Servers/N1_G1/NW8000 Interface/ASD Network/Zone2:AHU-1/DO4
AHU_1.SSF	StandardPoint	N1:G1:L0	EA DAMPER STATUS	Point_5.Value	Zone2:AHU-1:UIDV4	~/Servers/N1_G1/NW8000 Interface/ASD Network/Zone2:AHU-1/UIDV4
AHU_1.SSF	StandardPoint	N1:G1:L0	EF-6 COMMAND	Point_6.Value	Zone2:AHU-1:DO5	~/Servers/N1_G1/NW8000 Interface/ASD Network/Zone2:AHU-1/DO5
AHU_1.SSF	StandardPoint	N1:G1:L0	EF-7 COMMAND	Point_7.Value	Zone2:AHU-1:DO6	~/Servers/N1_G1/NW8000 Interface/ASD Network/Zone2:AHU-1/DO6

Figure: Top portion of the Summary Report

Table: Signal Migration Poiint Report

Component	Description
Signal File	Displays the total number migrated.
Signal Point #	Displays the total number of files with issues.
Signal Point Type	Displays the Signal point type.
Signal Point Name	Displays the Signal point name.
Signal Panel Address	Displays the Signal panel address.
Physical Point Name	Displays the physical point name.
Reference Point	Displays the reference point.
Referenc Path	Displays the file path of the reference point.

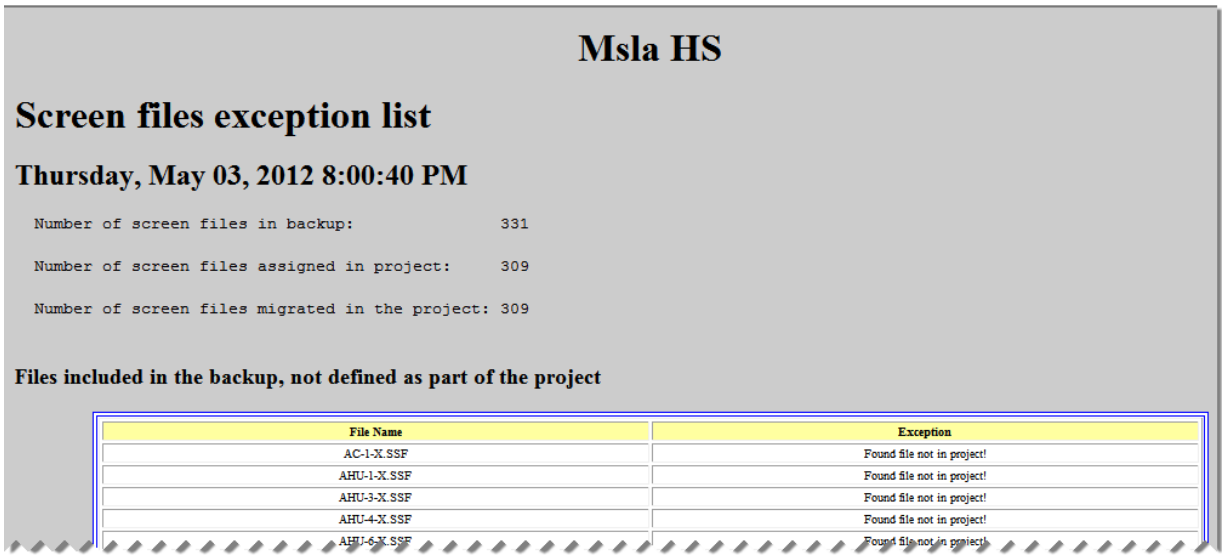
3.11 Signal Migration Screen Files Exception List

Use the Signal Migration Screen files exception lists to view lists of screen exceptions in the migration. The report lists two possible tables. The first table lists all Signal Screen Files (SSF) that exist in the Signal database but are not defined (not used). The second table lists all files that are defined in the Signal project, but are missing.

For more information, see section 2.1 “GCM and Signal Database Conversion” on page 29.

Note

- The reports are created as HTML documents and the links to document tables use Java Script to improve navigation. Some Web browsers restrict the use of scripts but you can safely override this restriction, if needed.



Msla HS

Screen files exception list

Thursday, May 03, 2012 8:00:40 PM

Number of screen files in backup: 331

Number of screen files assigned in project: 309

Number of screen files migrated in the project: 309

Files included in the backup, not defined as part of the project

File Name	Exception
AC-1-X.SSF	Found file not in project!
AHU-1-X.SSF	Found file not in project!
AHU-3-X.SSF	Found file not in project!
AHU-4-X.SSF	Found file not in project!
AHU-6-X.SSF	Found file not in project!

Figure: Screen Files Exception List – Files Included in Backup, Not Defined

Table: Signal Migration Screen Files Exception List – Files Included in Backup, Not Defined

Component	Description
Number of screen files in backup	Displays the total number of screen files in the backup file.
Number of screen files assigned in project	Displays the total number of files that are assigned to the project.
Number of screen files migrated in the project	Displays the total number of files that were migrated for the project.
File Name	Displays the file name of the screen.
Exception	Lists the exception for the screen.

Component	Description

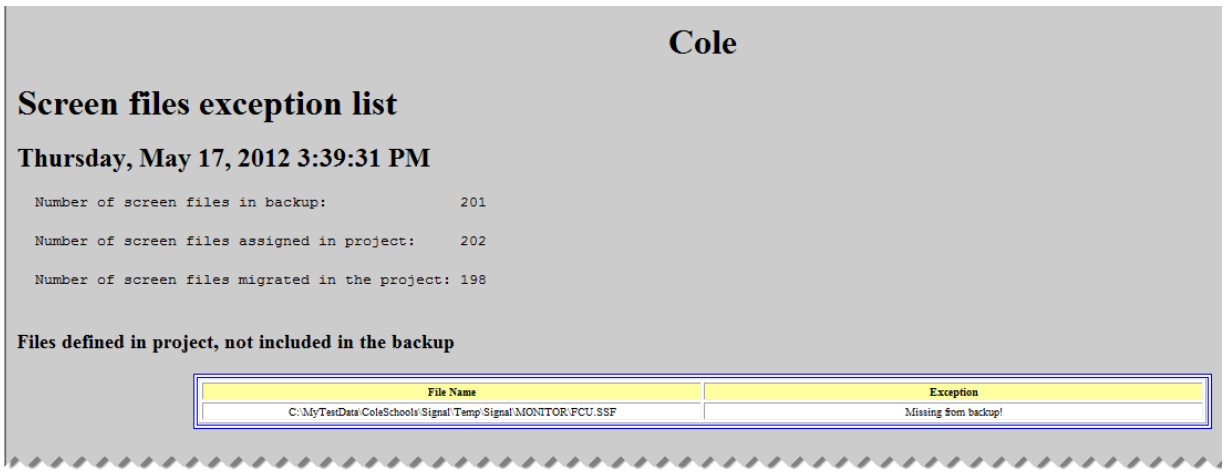


Figure: Screen Files Exception List – Files Defined in Project, Not Included

Table: Signal Migration Screen Files Exception List – Files Defined in Project, Not Included

Component	Description
Number of screen files in backup	Displays the total number of screen files in the backup file.
Number of screen files assigned in project	Displays the total number of files that are assigned to the project.
Number of screen files migrated in the project	Displays the total number of files that were migrated for the project.
File Name	Displays the file name of the screen that was not included.
Exception	Lists the exception for the screen that was not included.

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