

Argent Reporter

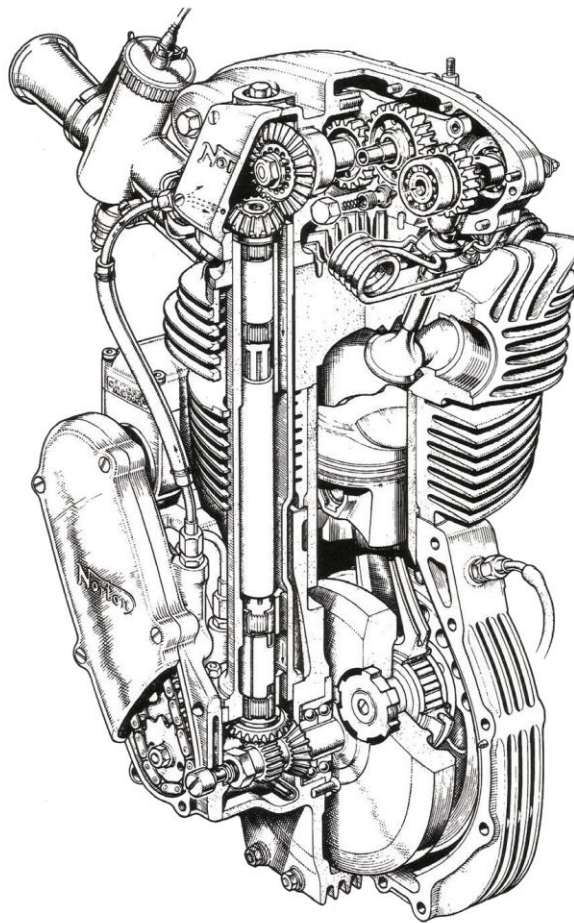


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Introduction

Argent Reporter is the reporting facility in Argent Omega. Argent Reporter uses RDLC (Report Definition Language Client) to generate reports by taking an RDL file designed with Microsoft Report Builder to generate RDLC files for reporting.

The most important aspect of Argent Reporter is that it can take data from any database – SQL Server, Oracle, etc. – there is no limit.

Moreover, the PowerShell script facility enables Argent Reporter to generate reports from any data source – flat files, Excel spreadsheets, web pages, etc. – there is no limit.

Logic in RDL (Report Definition Language) can optionally be used.

Argent Reporter also reports on critical aspects of Argent Omega, such as Cross-Reference, Outstanding Events, Performance Chart, System Events, and User Audit, etc. An array of these reports has been created for you.

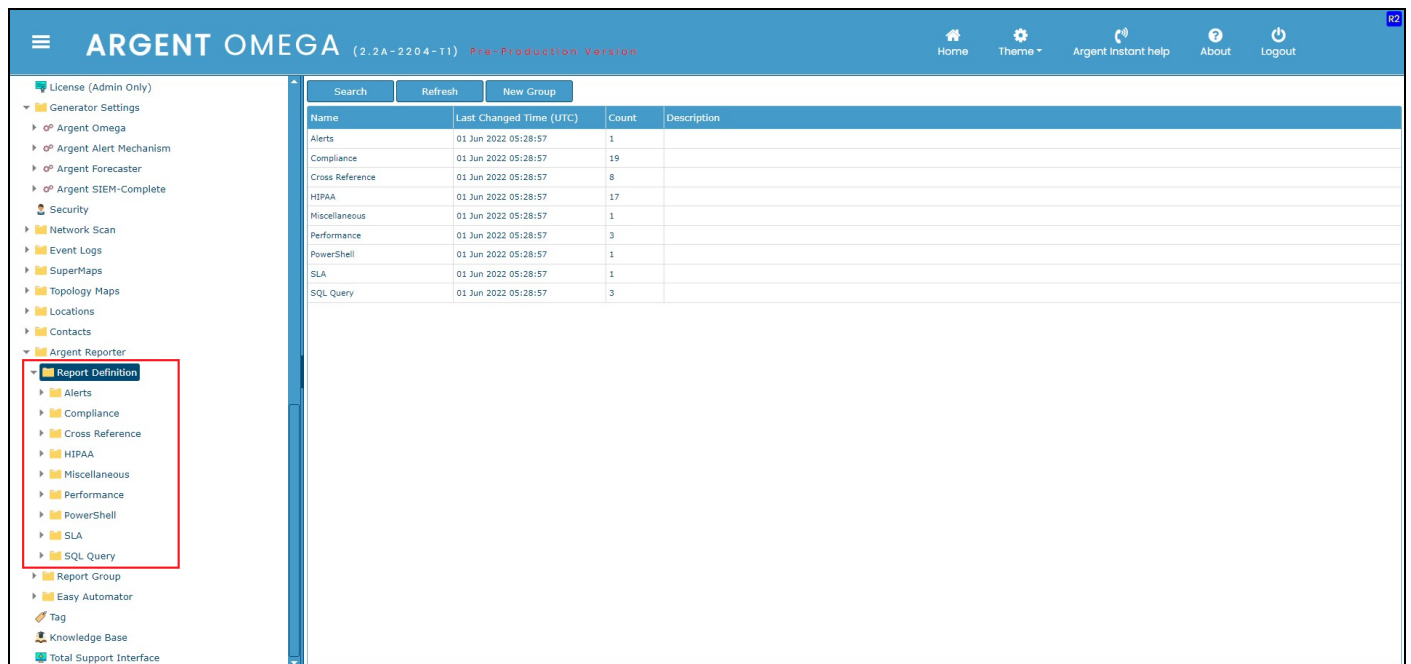
Argent Reporter report output formats include:

- PDF
- Microsoft Word
- Microsoft Excel
- Image
- XML

Argent Reporter includes the Easy Automation feature to automatically generate reports at a scheduled time and deliver the reports to users' mailboxes.

Report Definition

Argent Omega installs the most commonly used reports during setup:



Available report types include:

- **Alert**

Listing Argent Alert Mechanism Console Events and Archived Console Events.

- **Compliance Report**

Listing Argent Compliance reports.

- **Cross Reference**

Argent Omega Relator-centric cross-reference reports.

- **Custom Report**

Report that is fully defined in RDL. Argent Reporter only provides an interface to define and report generating.

- **Performance Chart**

Report the performance data saved in Argent Forecaster.

- **PowerShell Script Report**

Report on data provided by custom logic defined in PowerShell.

- **SQL Query Report**

Report on SQL Query output.

- **SLA Report**

Report on SLA.

- **SQL Server Jobs**

Report on SQL Server Jobs of selected SQL Server machines:

Report Common Fields include

- **RDL File**

Default RDL is provided for all types, except Custom Report. For Custom Report, browse the corresponding RDL file.

- **Report Title**

Report title text.

- **Report Header**

Not used, by default.

- **Report Footer**

Report footer text.

- **Orientation**

Portrait or Landscape.

- **Easy Automator**

Define whether to generate report automatically.

Generating A Report - Run Report

Select **Run Report** on right click menu to display report:

Toolset	Machine	Rule	Relator	Latest Alert Time	Priority	Status
Argent Omega Baseline	570_WASH_2ND_FLR_ANNEX_A_SERVER_1	PRF_CPU_OVERLOAD	REL_PRODUCTION_WI_NDOWS_BASELINE	2022-06-03 04:15	Low	Outstanding
		Console Comment: *** Excessive CPU - Over 85% *** Event Detail: Processor_TOTAL / NProcessor Time = 95.00 (>90) User Memo: Recent Instances: 2022-06-03 04:15, 2022-06-03 04:10, 2022-06-03 04:05, 2022-06-03 04:00, 2022-06-02 04:15, 2022-06-02 04:10, 2022-06-02 04:05, 2022-06-02 04:00, 2022-06-01 04:15, 2022-06-01 04:10, 2022-06-01 04:05, 2022-06-01 04:00				
	570_WASH_BASEMENT_SERVER_22	NDE_CONNECTIVITY	REL_PRODUCTION_CONNECTIVITY	2022-06-03 10:25	Low	Outstanding
		Console Comment: *** Server is Down *** Event Detail: Failed to reach server 570_WASH_BASEMENT_SERVER_22 User Memo: Recent Instances: 2022-06-03 10:25, 2022-06-03 10:15, 2022-06-03 10:05, 2022-06-02 14:05, 2022-06-02 10:25, 2022-06-02 10:15, 2022-06-02 10:05, 2022-06-01 14:05, 2022-06-01 10:25, 2022-06-01 10:15, 2022-06-01 10:05				

Alert Report

The screenshot displays the ARGENT OMEGA (2.2A-2204-11) Pre-Production Version interface. The left sidebar shows a navigation menu with categories like Generator Settings, Argent Omega, Argent Alert Mechanism, Argent Forecaster, Argent SIEM-Complete, Security, Network Scan, Event Logs, SuperMaps, Topology Maps, Locations, Contacts, Argent Reporter, Report Definition, Alerts, Compliance, Cross Reference, HIPAA, Miscellaneous, Performance, PowerShell, SLA, SQL Query, Report Group, Easy Automator, Tag, Knowledge Base, and Total Support Interface. The main content area is titled 'Alert Report' and contains the following configuration options:

- Report Type:** Alert (dropdown)
- RDL File Name:** (default) (dropdown) with buttons: Choose A File, Download RDL, Export Report
- Report Title:** Argent Omega Outstanding Events In Past 24 Hours (text input)
- Orientation:** Portrait (selected), Landscape (radio button)
- Argent Omega Toolsets:** (dropdown menu)
- Data Source:** Argent Alert Mechanism Console (selected), Archived Events (radio button)
- Use Time:** Latest Issue Time (selected), Alert Time, Record Time (radio buttons)
- Events Status:** Outstanding (dropdown)
- Show Less Detail:** (checkbox)
- Node Selection:** Apply Following Nodes (table with columns: Object Name, Object Type, Node)
- Date/Time Range:** Since Previous Date/Time (selected), Within Specified Date/Time Range, Include All Available Data (radio buttons)
- In Past:** 2 Days (input field)
- Use Coordinated Universal Time (UTC):** (checkbox)
- Custom Date/Time Format:** (text input) with a Help button
- Use Advanced Settings:** (checkbox)
- Custom File Name:** (text input)

Report specific fields, including:

- **Argent Omega Toolsets**

‘*’ is used by default to include all.

- **Data Source**

Reports on Argent Alert Mechanism console or console archive.

- **Use Time**

Comparing time using Latest Issue Time, Alert Time or Record Time.

- **Event Status**

Can be combination of Outstanding, Answered or Resolved.

- **Show Less Detail**

If checked, uses event short description instead of long description.

- **Node Selection**

Server or Devices to report.

- **Date/Time Range**

Event time range.

- **Use UTC**

Report should display UTC time instead of local time if it is checked.

Cross-Reference Reports

Argent Reporter bundles quite a few useful cross-reference reports. Among the most used are **Node or Rule or Email or SMS** Cross Reference reports. It shows that each CMDB-X node is actively monitored by some Rules; email or SMS recipients should be notified when Rules are broken. It literally tells how the enterprise environment is monitored currently:

ARGENT OMEGA (2.2A-2204-11) Pre-Production Version

Report Type: Cross Reference

Cross Reference Type: Relator List

RDL File Name: (default) [Choose A File] [Download RDL] [Export Report]

Report Title: Relator List Report

Orientation: Portrait Landscape

Column Display:

Name	Hide	Remove HTML Tag	Column Header	Width (%)
RELATOR	<input type="checkbox"/>	<input type="checkbox"/>	Relator	
MONITORING_GROUP	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring Group	
RULE	<input type="checkbox"/>	<input type="checkbox"/>	Rules	
SCHEDULE	<input type="checkbox"/>	<input type="checkbox"/>	Schedule	
ALERT	<input type="checkbox"/>	<input type="checkbox"/>	Alerts	
ALERT_BASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
ALERT_ESCALATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
ALERT_NOTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Argent Omega Toolsets: Please Choose:

Show Production Relator Only: ☒

Use Advanced Settings: ☐

Custom File Name: [Text Field]

Easy Automator: Not Used [Test]

Description: This report list important components of Relator

Report specific fields include:

- **Column Display**

It controls what columns should be displayed and how they are displayed.

- **Argent Omega Toolsets**

'*' is used by default to include all.

- **Show Production Relator Only**

It is checked by default.

Performance Chart

Performance Chart shows the performance data saved in Argent Forecaster:

The screenshot shows the ARGENT OMEGA (2.2A-2204-T1) First Production Version interface. The left sidebar contains a navigation menu with categories like Administration, Generator Settings, Argent Omega, Argent Alert Mechanism, Argent Forecaster, Argent SIEM-Complete, Security, Network Scan, Event Logs, SuperMaps, Topology Maps, Locations, Contacts, Argent Reporter, Report Definition, Alerts, Compliance, Cross Reference, HIPAA, Miscellaneous, Performance, RPT_CPU, RPT_KEY_PERFORMANCE, RPT_TOP_CPU, PowerShell, SLA, SQL Query, Report Group, Easy Automator, Tag, Knowledge Base, and Total Support Interface. The main panel is titled 'Performance Graph' and includes fields for Report Type, RDL File Name, Report Title, Orientation (Portrait/Landscape), Performance Counter Selection, Show Metric Value (Average, Max, Min, Last Value), Use Aggregate Data Sets, Show Series (Server/Device), Group Counters By Node, Show Top Counters, Use Previous Value for Missing Data, Resolution (1 Hours), Data Range (Specific, 0 to 100), Value Title, and Node Selection. The 'Apply Following Counters' table lists Object, Counter, and Instance, with 'Processor' and '% Processor Time' selected. The 'Apply Following Nodes' table lists Object Name and Object Type, with 'MMG_WINDOWS' and 'Monitoring Group' selected.

Report specific columns include:

- **Node Selection**

Server or Devices to report.

- **Performance Counter Selection**

Performance counters to report.

- **Date/Time Range**

Event time range.

- **Show Metric Value**

Average, Maximum, Minimum or Last value.

- **Use Aggregate Data Sets**

Allows combining data from multiple tables if sharding is used in Data Set definition.

- **Group Counters By Node**

One node on chart.

- **Limit Counters Per Chart**

Spread counters over multiple charts.

- **Show Top Counters**

Show only top counters on chart.

- **Use Previous Value For Missing Data**

Patch data if it is missing.

- **Resolution**

Data point resolution on chart.

- **Custom Date/Time Format**

Time displayed on X-Axis. The defaults are yyyy-MM-dd or yyyy-MM-dd HH:mm:ss.

- **Data Range**

Custom data range is available.

- **Value Title**

Title for Y-Axis values.

- **Show Series**

In a line graph, each line represents a series of data changing with time. Each line will have an identifier to distinguish different series of data.

When '**Show Series**' is turned off, each line will be identified using full counter name in format of [\\machine\object](#) (instance)\counter

When graphing multiple nodes for the same metric, customer can consider enabling "**Show Series**" to shorten line identifier to show Server/Device name only.

When graphing multiple instances of the same metric of the same node, customer can consider enabling "**Show Series**" to shorten line identifier to show instance name only.

PowerShell Script Report

The screenshot shows the ARGENT OMEGA (2.2A-2204-T1) PRODUCTION VERSION interface. The left sidebar contains a tree view with categories like Base Definitions, Administration, License, Generator Settings, and PowerShell. The main area is titled 'PowerShell Script Report' and includes fields for RDL File Name, Report Title, Orientation, and a PowerShell Script editor. Below the script editor is a 'Column Display' table with columns for Name, Hide, Remove HTML Tag, Column Header, and Width (%). The 'Easy Automator' dropdown is set to 'Not Used'. The bottom status bar indicates 'Full Screen' and provides a description of the report's purpose.

Report Type: PowerShell Script Report

RDL File Name: {default} [Choose A File] [Download RDL] [Export Report]

Report Title: Sample PS Report

Orientation: ☒ Portrait ☐ Landscape

PowerShell Script:

```
1 $PSPlayer.SetColumnValue("NAME", "IUC32")
2 $PSPlayer.SetColumnValue("LOCATION", "BASEMENT")
3 $PSPlayer.SetColumnValue("DESCRIPTION", "Developer Server")
4 $PSPlayer.AddReportRow()
5
6 $PSPlayer.SetColumnValue("NAME", "IUC33")
7 $PSPlayer.SetColumnValue("LOCATION", "OFFICE")
8 $PSPlayer.SetColumnValue("DESCRIPTION", "IleBEX Workstation")
9 $PSPlayer.AddReportRow()
10
11
12
```

Column Display:

Name	Hide	Remove HTML Tag	Column Header	Width (%)
NAME	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Name	
LOCATION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Location	
DESCRIPTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Description	

Use Advanced Settings: ☐

Custom File Name: [Text Field]

Easy Automator: Not Used [Test]

Description:

This report showcases how to use PowerShell script to report non-SQL data.

Report-specific columns include:

- **PowerShell Script**

Report logic.

- **Column Display**

Controls which columns should be displayed and how they are displayed.

- **Node Selection**

Shows only if "\$PSPlayer.Nodes" is used in script.

- **Date/Time Range**

Shows only if "\$PSPlayer.StartTimeUtc" and/or "\$PSPlayer.EndTimeUtc" are used in script.

- **Argent Omega Toolsets**

Shows only if "\$PSPlayer.Toolsets" is used in script.

SQL Query Report

ARGENT OMEGA (2.2A-2204-T1) Pre-Production Version

Report Type: SQL Query Report

RDL File Name: (default) Choose A File Download RDL Export Report

Database: Argent Alert Mechanism

Report Title: Alert Definition List Report

Orientation: Portrait Landscape

SQL Query: select name, description from ARGSOFT_AAM_ALERT order by name

SQL Query Type: Query Stored Procedure

Column Display:

Apply Following Custom Settings				
Name	Hide	Remove HTML Tag	Column Header	Width (%)
name	<input type="checkbox"/>	<input type="checkbox"/>	Name	35.00
description	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Description	

Use Advanced Settings: ☐

Custom File Name:

Easy Automator: Not Used Test

Description:

This report showcases how to report on SQL data.

Report-specific columns include:

- **SQL Query**

SQL query to filter data for Report.

- **SQL Query Type**

Can be query or stored procedure.

- **Column Display**

Controls which columns should be displayed and how they are displayed.

- **Node Selection**

Shows only if “#NODES” is used in query. The keyword in query would be replaced with string of “node_1,” “node_2,” “node_3”...“node_xxx.”

- **Date/Time Range**

Shows only if any of “#START_TIME_UTC#,” “#END_TIME_UTC#,” “#START_TIME#,” or “#END_TIME#” are used in query.

- **Argent Omega Toolsets**

Shows only if “#TOOLSETS#” is used in query. The keyword in query would be replaced with string of “toolset_1,” “toolset_2,” “toolset_3”...“toolset_xxx.”

SQL Job Report

This report is a special case report. Argent can provide such reports when SQL Query reports and PowerShell Script reports are difficult to implement for certain external data:

The screenshot displays the ARGENT OMEGA web application interface. The top navigation bar includes the application name, version (2.2A-2204-T1), and user information (RPT-PRODUCED: V451510). The left sidebar shows a tree view of the application's structure, with 'SQL Query' and 'RPT_ALERT_LIST' highlighted. The main content area is divided into several sections for configuring the report:

- Report Type:** A dropdown menu set to 'SQL Server Jobs'.
- RDL File Name:** A dropdown menu set to '(default)', with buttons for 'Choose A File', 'Download RDL', and 'Export Report'.
- Report Title:** A text input field containing 'Alert Definition List Report'.
- Orientation:** Radio buttons for 'Portrait' (selected) and 'Landscape'.
- Node Selection:** A section titled 'Apply Following Nodes' with a table showing selected nodes:

Object Name	Object Type
SMO_WINDOWS	Monitoring Group

- Job Type:** A dropdown menu set to 'Please Choose:'.
- Use Advanced Settings:** A checkbox that is currently unchecked.
- Custom File Name:** A text input field.
- Easy Automator:** A dropdown menu set to 'Not Used', with a 'Test' button.
- Description:** A rich text editor area with a toolbar and a 'Full Screen' button. The description text reads: 'This report showcases how to report on SQL data.'

The difficulty in reporting SQL Jobs is that data comes from multiple SQL Server machines. It is possible to implement to use SQL Query report. However, it would involve DBA jobs, like linking external SQL Server machines and allowing remote execution, etc. Sometimes, this is difficult for the customer.

Easy Automator

Easy Automator provides reporting automation. Easy Automator runs on schedule and delivers reports to users' mailboxes:

ARGENT OMEGA (2.2A-2204-T1) First Production Version

Home Theme Argent Instant help About Logout

Base Definitions
Holidays
Administration
License (Admin Only)
Generator Settings
Argent Omega
Argent Alert Mechanism
Argent Forecaster
Argent SIEM-Complete
Security
Network Scan
Event Logs
SuperMaps
Topology Maps
Locations
Contacts
Argent Reporter
Report Definition
Alerts
Compliance
Cross Reference
HIPAA
Miscellaneous
Performance
PowerShell
SLA
SQL Query
Report Group
Easy Automator
Tag
Knowledge Base
Total Support Interface

Email Type: AUTO
Email Reports to: &RM_ADMINISTRATORS
CC:
Importance: Not Specified
Subject: Test of Easy Automator
Message Text: Test of Easy Automator

Append Timestamp to File Name: ☐
Send As Attachments: ☐
Include Runtime Detail: ☐
Execution Time: 12:00:00
Repeat Task: ☐
Calendar: Please Choose
Export Format: PDF
Send As Single Message: ☐
Temporarily Disabled: ☒
Description:

Definition fields include:

- **Email Type**

It can be Auto, SMTP, Exchange Web Service, and MAPI.

- **Email Reports To**

Email recipients.

- **CC**

Email CC.

- **Importance**

Message importance.

- **Subject**

Email subject.

- **Message Text**

Email message.

- **Append Timestamp to File Name**

This is useful in avoiding overwriting old report files.

- **Send As Attachment**

Report can be either sent as an email attachment or a download link in the email body.

- **Include Runtime Detail**

Add runtime detail at the end of the message. This is useful for debugging.

- **Execution Time**

Time at which the report runs.

- **Repeat Task**

Set as repetition, such as sending report once per hour.

- **Calendar**

Determines the date for sending the report.

- **Export Format**

It can be PDF, Word, Excel or Image.

Custom RDL

Half of Argent Reporter's power comes from the sophisticated report designing tool – **Microsoft Report Builder**, which is free to download and use.

Argent Reporter provides the “**Download Report Builder**” menu option on the report definition screen:

The screenshot displays the ARGENT OMEGA (2.2A-2204-T1) interface for defining a report. The left sidebar shows a tree view with categories like Base Definitions, Administration, and Security. The main area is divided into sections for Report Type, RDL File Name, Report Title, Orientation, Data Source, Use Time, Events Status, Show Less Detail, Node Selection, Date/Time Range, Use Coordinated Universal Time (UTC), Custom Date/Time Format, Use Advanced Settings, Custom File Name, Easy Automator, and Description. A right-hand menu is open, listing actions such as Add New, Save, Undo, Delete, Copy, Rename, Run Report, Test Easy Automator, Delete Custom RDL, Download Report Template, and Download Report Builder 3.0, which is highlighted with a red box. The bottom status bar includes a toolbar with icons for various report functions and a 'Full Screen' button.

The actual download link is <https://www.microsoft.com/en-us/download/details.aspx?id=42301>

Microsoft® SQL Server® 2014 Report Builder

Important! Selecting a language below will dynamically change the complete page content to that language.

Select Language:

English



Download

Report Builder provides a productive report-authoring environment for IT professionals and power users. It supports the full capabilities of SQL Server 2014 Reporting Services.

Details

Version:

12.0.2000.8

Date Published:

3/31/2014

File Name:

ENU\x86\ReportBuilder3.msi

File Size:

20.9 MB

Report Builder provides a productive report-authoring environment for IT professionals and power users. The download provides a stand-alone installer for Report Builder.

Report Builder provides data visualizations that include charts, maps, sparklines, and data bars that can help produce new insights well beyond what can be achieved with standard tables and charts. Use Report Builder to create reports and shared datasets. Publish report parts, and then browse the Report Part Gallery to reuse existing report parts as building blocks for creating new reports quickly with a “grab and go” experience.

System Requirements

Supported Operating System

Windows 7, Windows 7 Service Pack 1, Windows 8, Windows 8.1, Windows Server 2008 R2 SP1, Windows Server 2012, Windows Server 2012 R2

Note: This component also requires [Microsoft .NET Framework 4.5](#).

- 80 MB of available hard disk space
- 512 MB of RAM

After installing Report Builder, user can now customize the built-in report RDL or define his own RDL for Custom Report.

If user wants only to do minor changes such as adding company logo, changing font size, etc., it is better to download the built-in RDL first. To do so, click on the button '**Download RDL**'.

Double Click on the downloaded RDL file; Report Builder should open for editing:

If you need to define a new RDL for Custom Report, to maintain report consistency, download Template RDL:

ARGENT OMEGA (2.2A-2204-T1) Top Production Version

Report Type: Alert

RDL File Name: (default) Choose A File Download RDL Export Report

Report Title: Argent Omega Outstanding Events In Past 24 Hours

Orientation: Portrait Landscape

Argent Omega Toolsets: *

Data Source: Argent Alert Mechanism Console Archived Events

Use Time: Latest Issue Time Alert Time Record Time

Events Status: Outstanding

Show Less Detail: [x]

Node Selection:

Object Name	Object Type
*	Node

Apply Following Nodes

Date/Time Range: Since Previous Date/Time Within Specified Date/Time Range Include All Available Data

In Past: 2 Days

Use Coordinated Universal Time (UTC): [x]

Custom Date/Time Format: Help

Use Advanced Settings: [x]

Custom File Name:

Easy Automator: Not Used Test

Description:

Download Report Template

To select a user RDL, click on button 'Choose A File' to upload RDL:

ARGENT OMEGA (2.2A-2204-T1) Top Production Version

Report Type: Alert

RDL File Name: (default) Choose A File Download RDL Export Report

Report Title: Argent Omega Outstanding Events In Past 24 Hours

Orientation: Portrait Landscape

Argent Omega Toolsets: *

Data Source: Argent Alert Mechanism Console Archived Events

Use Time: Latest Issue Time Alert Time Record Time

Events Status: Outstanding

Show Less Detail: [x]

Node Selection:

Object Name	Object Type
*	Node

Apply Following Nodes

Date/Time Range: Since Previous Date/Time Within Specified Date/Time Range Include All Available Data

In Past: 2 Days

Use Coordinated Universal Time (UTC): [x]

Custom Date/Time Format: Help

Use Advanced Settings: [x]

Custom File Name:

Easy Automator: Not Used Test

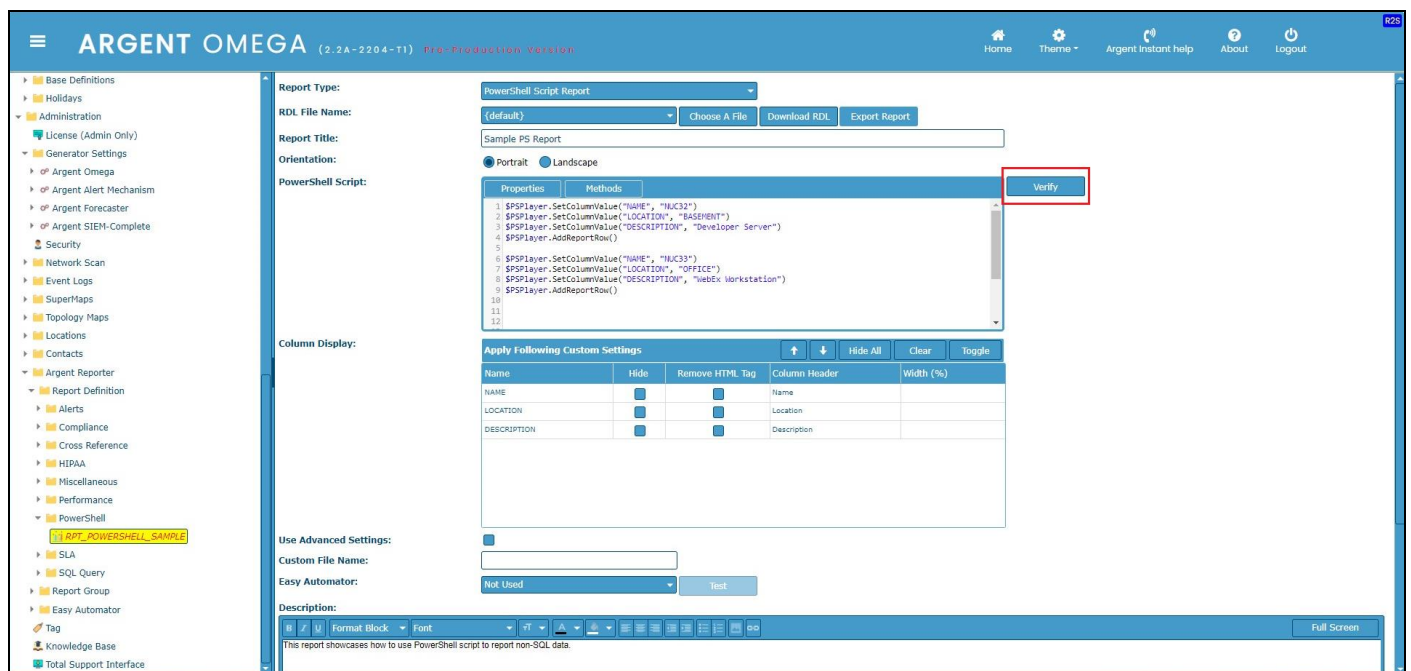
Description:

While Report Builder is very powerful, it was created to report on SQL Server data. In other words, you must have a working SQL Server machine. SQL Server is used as a "crutch," after RDL file is defined, it can be used in Argent Reporter without talking to the SQL Server ever again.

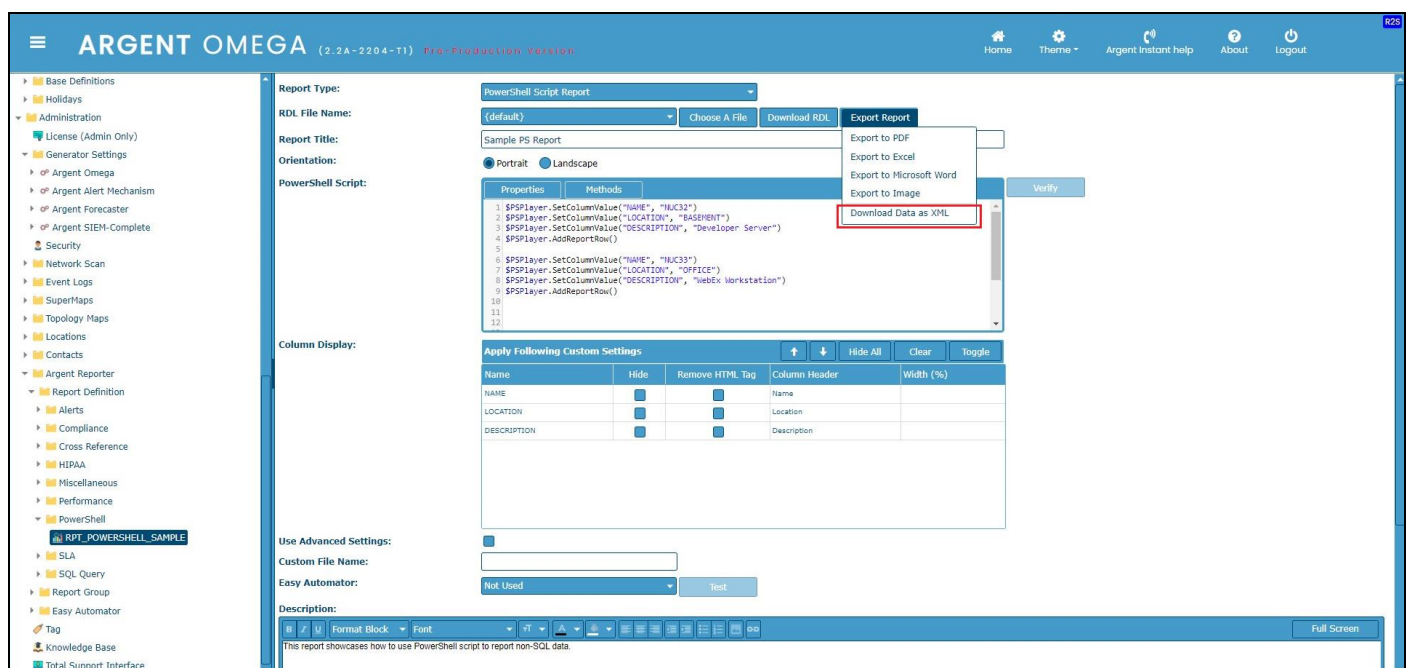
This is usually true when doing PowerShell Script report on non-SQL data. How to do it?

Step 1: Define a new PowerShell Script report.

Step 2: Click on 'Verify' button to make sure PowerShell Script generates data:



Step 3: Download XML data:



Step 4: Import XML data to create SQL table. Run

C:\Argent\ArgentOmega\ArgentReporterSampleXml.exe xml_data_file_path

Step 5: Now, user has a new SQL table matching the report name in the Argent Omega database.

Assuming Argent Omega uses SQL Server as backend, user can start designing reports using the newly created SQL table.