

# Foglight<sup>™</sup> 5.7.5.8 **Dashboard Support Guide**



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Legend

- WARNING: A WARNING icon indicates a potential for property damage, personal injury, or death.
- **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
- i IMPORTANT NOTE, NOTE, TIP, MOBILE, or VIDEO: An information icon indicates supporting information.

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We are more than just a name
Our brand, our vision. Together
Technical support resources

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# **About Dashboard Support Tools**

Welcome to the Dashboard Support Guide. This guide describes the pages that you can use to evaluate your custom dashboards.

It describes the Tools and Dashboard Support page, explains how to view information about the data model, and shows you how to explore and publish the unit tests defined for module functions and queries. It contains information about exploring type and property definition inconsistencies, shows you how to view help identifiers per module, and explains where to find information on view usage in modules or sub-modules. Finally, it describes the process of viewing the amounts of data persisted to the database per dashboard, explains the concepts of data sources and their validation, and shows you how to review view error messages raised against one or more modules.

The Tools and Dashboard Support page is your starting point when you want to evaluate the dashboards you build for your monitored system. Use it to quickly assess the state of your dashboards and the underlying model, detect potential problems early on, and prevent unexpected behavior in the application.

- **NOTE:** The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - Getting Started

### **Getting Started**

To access this dashboard, on the navigation panel, click Development Tools.

Figure 1. Development Tools page



The Development Tools page contains links to dashboards that you can use to verify different aspects of your dashboards during the development cycle. For complete information, see the following chapters:

- Definitions Editor: For more information, see the "Definitions Pane" section in the Foglight Web Component Guide.
- Data Browser: For more information, see the "Data and Data Sources Pages" section in the Foglight Web Component Guide.
- Schema Browser: For more information, see Exploring the Data Model on page 7.
- Persistence Storage Usage: For more information, see Viewing and Managing Persistence Storage Usage on page 26.
- Help Identifier: For more information, see Finding Help Identifiers on page 19.
- Module Unit Test Report: For more information, see Reporting on Module Unit Tests on page 12.
- Script Agent Builder: For more information, see the "Building Script Agents" section in the Foglight Administration and Configuration Guide.
- Script Console: For more information, see the "Retrieving Data with Scripts and Queries" section in the Foglight Administration and Configuration Guide.
- Role Assignment: For more information, see the "Explore the Roles tab" section in the Foglight Administration and Configuration Guide.
- Module Validation: For more information, see Validating Modules on page 28.
- Definitions Statistics: For more information, see Exploring Module Definitions on page 21.
- Types Documentation Report: For more information, see Exploring Type and Property Definition Inconsistencies on page 17.
- Data Source Validation: For more information, see Validating Data Sources on page 31.

Foglight<sup>™</sup> collects data from the monitored system and uses that data to dynamically build topology models at runtime. A topology model organizes the data in a way that represents the logical and physical relationship between items in your monitored environment and provides the context for the collected metrics.

Topology models consist of nodes, where each node is an instance of a topology object. The nature of the monitored environment dictates the structure and complexity of each topology model and the collection of available topology types. A basic server installation includes a set of core topology types, and each installed cartridge adds to that collection.

Use the Schema Browser to view information about the available data types, their relationships in the data model, properties, and object instances. This dashboard can help you better understand the data model structure.

- **NOTE:** The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - · Getting Started
  - Drilling Down on Types

### **Getting Started**

To access this dashboard, on the Development Tools page, click Schema Browser.

Figure 1. Schema Browser



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# **Drilling Down on Types**

The Schema Browser allows you better understand the database schema. Start by selecting a namespace. A namespace is a collection of types that share the same concept. For example, the Administration/Setup & Support/Blackouts namespace contains a group of types that are used to implement blackouts in Foglight. While type names must be unique within a namespace, it is possible to have same type names across multiple namespaces.

Review the list of types associated with the namespace and drill down on a specific type to review its properties, instances, and relationships with other types in the model.

### To view a list of types associated with a namespace:

1 On the Development Tools page, click Schema Browser.

The Schema Browser dashboard appears in the display area.

2 Select a namespace.

In the Schema Browser dashboard, click the Select to Browse box.

A list of nodes appears in the tree view, with each node representing a namespace.



- **i IMPORTANT:** The type and collection of available namespaces depends on the range of installed cartridges.
- 3 Expand a node in the list.

A list appears, showing the topology types associated with the selected namespace.

Common (Namespace)							
Administration/Credentials/Credential Policies (No Description)	*						
Server Administration (Server Administration)							
Management Server/Commons (No Description)							
Monitoring (Monitoring DataSource)							
TaskManager (TaskManager)							
CatalystMetricHandler (CatalystMetricHandler)							
ProblemTicket (ProblemTicket)							
Date (Date)							
DomainRoot (DomainRoot)							
FSMBase (FSMBase)							
HostStorage (HostStorage)							
HostTopCPUProcessTrend (HostTopCPUProcessTrend)							
CatalystLoadEstimator (CatalystLoadEstimator)							
AllTypeInstances (AllTypeInstances)							
InferHoles (InferHoles)							
FglamClientInstance (FglamClientInstance)							
PropertyRegExMergeFilter (PropertyRegExMergeFilter)							
IncidentSystemEvent (IncidentSystemEvent)							
HostExtension (HostExtension)							
AlarmFilter (AlarmFilter)							
ReportMetaData (ReportMetaData)	-						

4 Click a namespace node in the list.

The Schema Browser dashboard refreshes, showing a table containing the types associated with the selected namespace. For each type, it shows its name, description, non-localized name, and the parent type.

Data model Schema Browser	used to explore existing Namespaces, Types, th	heir relationships, properties, an	d data instances.		
Monitoring	<b>*</b>	< Select to Browse	Recent Select	ions	
Description Not enough information provided (Monitoring DataSource)			Monitoring (Na Namespace (1		
Id foglight-5			Common (Nar	nespace)	
Types for Monitoring Namesapce					
				a 1	0
			1.00	Search	<i>p</i> +
Name ▲	Description	Abstract	d Name	Super Type	
Abstract Dependency	Abstract Dependency	AbstractDependency		Base Dependency	
reserver separation (	, abstract populating			DataObject	
AbstractDependencyNode	AbstractDependencyNode	AbstractDependencyNo	de	DataODICL	
AbstractDependencyNode AbstractLogMessage	AbstractDependencyNode AbstractLogMessage	AbstractDependencyNo AbstractLogMessage	de	DataObject	
AbstractDependencyNode AbstractLogMessage AccessInformation	AbstractDependencyNode AbstractLogMessage AccessInformation	AbstractDependencyNo AbstractLogMessage AccessInformation	de	DataObject DataObject TopologyObject	
AbstractDependencyNode AbstractLogMessage AccessInformation Active Dependency	AbstractDependencyNode AbstractLogMessage AccessInformation Active Dependency	AbstractLogMessage AccessInformation ActiveDependency	de	DataObject DataObject TopologyObject Abstract Dependency	
AbstractDependencyNode AbstractLogMessage AccessInformation Active Dependency AdminConfigTemplate	AbstractDependencyNode AbstractLogMessage AccessInformation Active Dependency AdminConfloTemplate	AbstractLopPendencyNo AbstractLogMessage AccessInformation ActiveDependency AdminConfigTemplate	de	DataObject DataObject TopologyObject Abstract Dependency TopologyObject	
AbstractDependencyNode AbstractLogMessage AccessInformation Active Dependency AdminConfigTemplate Acent	AbstractDependencyNode AbstractLogNessage AccessInformation Active Dependency AdminConfgTemplate Agent	AbstractUppendencyNo AbstractLogMessage AccessInformation ActiveDependency AdminConfigTemplate Agent	de	DataObject DataObject TopologyObject Abstract Dependency TopologyObject TopologyObject	

- 5 In the Schema Browser dashboard, drill down on a type by clicking its entry in the table.
  - **i TIP:** Another way to drill down on a type is to click a type entry in the **Select to Browse** list.
  - **i IMPORTANT:** Selecting a generic type, for example, String, does not show any information about that type in the Schema Browser. The Schema Browser only displays information about Foglight<sup>™</sup> types.

The Schema Browser dashboard refreshes, showing additional information about the selected type.

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📲 Schema E	Browser					
Data model Schema B	rowser, used to explore exist	ing Namespaces, Types, th	neir relationships, properties, a	nd da	ata instance:	s.
Agent		•	< Select to Browse		Recent Se	elections
escription Description is the s	ame as Type name				Agent (Ty	/pe)
					Monitorin	g (Namespace)
Id Agent					Common	(Namespace)
Validation 🕕 Possible Locali	zation Failure				common	(numespace)
Local Properties					Super T	ypes Sub Types Instances
		Searc	h Ø+	15	Agent	
Name +	Description	Type Name	Linbcalized Name	-	extends	TopologyObject
agentID	agentID	Integer	agentID		extends	DataObject
agentInstance	agentInstance	String	agentInstance		extends	Object
agentName	agentName	String	agentName			
agentVersion	agentVersion	String	agentVersion			
build	build	String	build			
cpuCount	cpuCount	String	cpuCount			
healthState	healthState	AgentHealthState	healthState			
hostName	hostName	String	hostName			
isCollectionScheduled	isCollectionScheduled	Boolean	isCollectionScheduled			
monitoredHost	monitoredHost	Host	monitoredHost			
monitoringAgent	monitoringAgent	Agent	monitoringAgent			
Inherited Properties						
		Foord	0-			
News	Description	Time News	Linkseland Name			
ivdMe ▲	Description	AlarmIdListObservation	aggregate AlarmIds			

**TIP:** Drilling down on a type causes the Schema Browser to refresh and reflect information pertinent to the type. To quickly return to the previous view, use the links in the **Recent Selections** area.

_ · · · · · · · · · · · · · · · · · · ·			
and data instances.	_		
Recent Selections			
Monitoring (Namespac	e)		
String (Type)			
Script Help (Type)			
Script Reference (Type			

- Local Properties and Inherited Properties: Each table shows a list of properties that are local to the selected type (Local Properties) or inherited from a parent type (Inherited Properties). For each property, it indicates if the property is an identity property, and shows its name, description, type name, and non-localized name. Identity properties are indicated with the property name on the left of the property name.
- Super Types: This tab shows a list of this type's parent (ancestor) types.
- Sub Types: This tab shows a list of this type's child (descendant) types.

Super Types	Sub Types	Instances				
📲 Graph Sub Types						
F4Agent						

Clicking **Graph Sub Types** shows a graphical representation of the child type's relationship with this type.

$\overleftarrow{\tau}$ Dashboard Development > Schema Browser > Types Columns Layout
<u></u> → <u></u>
Agent F4Agent

- i | TIP: Use the breadcrumb trail to return to the Schema Browser.
- **Instances**: This tab shows a list of this type's instances.

Super Types	Sub Types	Instances	
	Search		<u>,</u>
Name 🔺			
July19-WinSys			

## **Reporting on Module Unit Tests**

The Module Unit Test Report lists the modules that exist in your environment. Each Foglight<sup>™</sup> module contains a collection of operational elements such as views, dashboards, sub-modules, and other entities. For each module, this dashboard shows the number of functions, queries, along with the numbers and percentages of unit tests defined for the module's functions and queries.

A unit test is a block of code that can be used to test the logic of a function or a query, to ensure it suits its purpose. Unit tests can detect potential code problems early in the development cycle. The higher percentage of unit tests in a module can prevent unexpected behavior in the application and, as such, improve its reliability.

Drill down on the unit test details to retrieve additional information about a module's unit test. To publish information about unit tests per module, run a report against one or selected modules using the reporting option from the action panel.

- **NOTE:** The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - Getting Started
  - Exploring Module Unit Tests Result
  - Publishing Module Unit Tests Result to a Report

### **Getting Started**

To access this dashboard, on the Development Tools page, click Module Unit Test Report.

Figure 1. Module Unit Test Report

T Development Tools > Module Unit	G+ Sunday, Octo	ber 9, 201	6 1:43:10 PM - 2:43:10	PM 60 mi	inutes 👻	Report	5 🔻		
🙀 Module Unit Test Report									
Select module(s) from the tree structure below and run the Associated Reports defined for this page (in the right page panel). Also you can click "Details" in the unit tests column to run and display results and other details.									
					Search			۶ ج	÷
Module Name 🔺	Total Functions	Total Queries	Functions With Ur	itTests	Queries With Unit	Tests	Unit	Tests	
Administration	102	0	0	(0%)	0	(0%)	-		1
🗳 🔲 Agent Adapter	0	0	0	(0%)	0	(0%)	-		
🖬 🔲 Alarms	37	22	0	(0%)	0	(0%)	-		1
Dependency Mapping	14	4	0	(0%)	0	(0%)	-		
🗈 🔲 Development Tools	0	0	0	(0%)	0	(0%)	-		
🖽 🔲 Hosts	14	5	0	(0%)	0	(0%)	-		-
🗉 🔲 Infrastructure	2	0	0	(0%)	0	(0%)	-		
🗈 🔲 Log Monitor	13	4	1	(7.7%)	0	(0%)	<b>E</b>	Details	
🛙 🔲 Management Server	0	2	0	(0%)	0	(0%)	-		
Reports	7	4	0	(0%)	0	(0%)	-		1
🗈 🔲 Canned Reports	3	9	0	(0%)	0	(0%)	-		
🗉 🔲 Editor	30	5	0	(0%)	0	(0%)	-		
🖬 🔲 Services	0	9	0	(0%)	0	(0%)	-		

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## **Exploring Module Unit Tests Result**

If a module includes function of query unit tests, you can drill down on the unit test details to see the unit test details, whether they passed with success, or failed with errors. This information appears in the Module Unit Tests Result view. Display this view by drilling down on **Details** in the **Unit Tests** column on the Module Unit Test Report dashboard.

The Module Unit Tests Result view shows how many functions and queries exist in a module, the number of function and query unit tests for that module, the unit test results, and whether unit tests are defined for all functions and queries.

To return to the Module Unit Test Report, use the breadcrumb trail.

### Figure 2. Returning to the Module Unit Test Report

Development Tools > Module Unit Test Report > Module Unit Tests Result			G• Sunday, Octo	ber 9, 2016 4:33:06 PM - 5:33:06	PM 60 minutes 👻 🛛	🖪 Reports 🦷
Total Queries: Queries with Unit Tests:	4 0					
) Monitor						
Unit Test Test an Alarm with No Rule Test an Alarm with Rule ID	Name ID			Duration (milliseconds) 252 89	Result State Passed Passed	- I↓ 
lonitor						*
Query Name 🔺 Unit Test Name No Unit Test				Duration (milliseconds)	) Result Stat	e iţ
n Module "Log Monitor"			A Query(s)	) Missing Unit Test on Module	"Log Monitor"	
and File Name			Query Name Hosts with L File Groups R Outstanding Files Per Hos	og Records Per Host Alarms For Severity		· ·
	eport > Module Unit Tests R Total Queries: Queries with Unit Tests: Monitor Unit Test Test an Alarm with No Rule Test an Alarm with Rule ID onitor Unit Test nonitor No onitor No onitor No onitor No onitor No onitor No No No No No No No No No No	eport > Module Unit Tests Result Total Queries: 4 Queries with Unit Tests: 0 Monitor Unit Test Name Test an Alarm with No Rule ID Test an Alarm with Rule ID Onitor Unit Test Name No Unit Test Name No Unit Test No	eport > Module Unit Tests Result Total Queries: 4 Queries with Unit Tests: 0 Monitor Unit Test Name Test an Alarm with No Rule ID Test an Alarm with Rule ID Onitor Unit Test Name No Unit Test Name No Unit Test h	eport > Module Unit Tests Result  Total Queries: 4 Queries with Unit Tests: 0 Monitor  Unit Test Name Test an Alarm with No Rule ID Test an Alarm with Rule ID  Onitor  Unit Test Name No Unit Test has defined.  Module "Log Monitor"  A Query(s) Query Name Hosts with L File Groups F Outstanding Files Par Hos	eport > Module Unit Tests Result  C - Sunday, October 9, 2016 4:33:06 PM - 5:33:06  Total Queries: 4 Queries with Unit Tests: 0  Monitor  Unit Test Name Uni	eport > Module Unit Tests Result Gr Sunday, October 9, 2016 4:33:06 PM - 5:33:06 PM 60 minutes   Total Queries: 4 Queries with Unit Tests: 0 Monitor Unit Test Name Unit T

If any unit tests result in errors, this is indicated in the **Result State** column. Clicking this column shows additional information about the error.

### To display module unit test result:

- 1 On the Development Tools page, click Module Unit Test Report.
  - The Module Unit Test Report dashboard appears in the display area.
- 2 Observe the tree view of modules and the available unit tests per module.
- 3 Locate a node in the navigation tree by expanding its nodes to navigate to the module that includes unit tests.
- 4 In the Unit Tests column, click Details.
- 5 The display area refreshes, showing the Module Unit Tests Result view.

T. Development Tools ➤ Module	Unit Tes	t Report > Module Unit T	ests Result		G	+ Sunday, Octol	ber 9, 2016 4:33:06 PM - 5:33:06	PM 60 minutes 👻 📔 💽	Reports 👻
Module: Log Monitor									
Total Functions:	13	Total Queries:	4						
Functions with Unit Tests: 1	1	Queries with Unit Te	ests: 0						
All Function Unit Tests for M	lodule I	.og Monitor							
Function Name 🔺		Ur	it Test Name				Duration (milliseconds)	Result State	:=
Alarm Title		Test an Alarm with N	lo Rule ID				252	Passed	*
	Test an Alarm with Rule ID						89	Passed	
									+
All Query Unit Tests for Mod	lule Log	) Monitor							
Query Name 🔺	Query Name 🔺 Unit Test Nam						Duration (milliseconds	) Result State	:=
			No Unit T	est	ha	s defined.			
A 12 Eupction(s) Missing LL	nit Teel	on Module "Log Monito	e <sup>9</sup>	-	10	A 4 Ouerv(c)	Missing Unit Test on Module	"Log Monitor"	
Turnetion Name	THE TEST	Contributale Log Monito	•		ľ	Over v Nerve	rest of roduc	Log Horitor	
Populate Log File Directoria	29			-		Hosts with L	og Records		
Find LocoMonitorFileTrand Py Hast and File Name						File Groups F	Der Host		
Message Man					Outstanding	Alarma For Cavarity			
Find LegMeniterDeserde By Leg File					Cilco Dor Hor	Addition Devency			
Find LogMonitorRecords By Log File						Tiles Per Mos			
Get Display Name									
Alarm Description				-					

6 Observe the Module Unit Tests Result view.

The view shows how many functions and queries exist in a module, the number of function and query unit tests for that module, the unit test duration, results, and whether unit tests are defined for all functions and queries.

7 If any unit tests result in errors, click the Result State column to inspect the error message.

The Error Details message box appears, showing the error details.



- 8 To return to the Module Unit Test Report dashboard, use the breadcrumb trail in the display area.
- 9 To return to the Development Tools page, click **Development** Tools in the breadcrumb trail.

## Publishing Module Unit Tests Result to a Report

Foglight<sup>™</sup> comes with report templates that you can use to publish module unit tests result to a report. Depending on the level of information that you want to see in the report, you can report on all modules, or selected modules only.

Reporting on all modules results in a flat list of all modules and sub-modules showing the same information that appears on the Module Unit Test Report. For each module and sub-module, it shows the number of functions, queries, along with the numbers and percentages of function and query unit tests.

Reporting on selected module shows more details about unit tests. For example, you can see the numbers of all functions and queries compared to the numbers of the module's functions and queries that include unit tests. For each unit test, you can see its name, duration, and result, and a list of functions or queries that are missing unit tests. Use this information as a quick reference to investigate unit test results and to identify which components are missing unit tests.

### To publish module unit tests to a report:

1 On the Development Tools page, click Module Unit Test Report.

The Module Unit Test Report dashboard appears in the display area.

- 2 Observe the tree view of modules and the available unit tests per module.
- 3 To drill down on a module's sub-modules, expand the module node.

For each module that contains unit tests, you can see the numbers of functions, queries, and the associated unit tests.

- 4 Publish unit test results to a report.
  - a To create a report that displays unit test results for specific modules only, select those modules in the list.
  - b In the top-right corner of the display area, click **Reports**.

A dwell appears.

Unit Tests (All N	Iodules)
🕪 Unit Tests (Sele	cted Modules)
🙆 Create a New R	eport
Run a Report	
式 Manage Reports	1

- **TIP:** Another way to access this dwell is through the action panel. On the General tab, under Other Actions, click Create report.
- c To report on all modules, in the dwell, click Unit Tests (All Modules).
- d To report on the modules selected in Step a, click Unit Tests (Selected Modules).
  - **TIP:** Reporting on module unit tests takes the list of selected modules as input. When reporting on selected modules, it is possible to edit that list to add or remove modules, as required.

The Schedule Report dialog box appears.

e Complete the flow to schedule the report.

The newly generated reports can be accessed from the Reports dashboard. For more information about reports, see the *Foglight User Help* or click the **Help** button in the dialog box.

# Exploring Type and Property Definition Inconsistencies

The Types Documentation Report lists all namespaces that exist in your environment. A namespace is a collection of types that share the same concept. For example, each Foglight<sup>™</sup> module has a collection of types associated with it. While type names must be unique within a namespace, it is possible to have same type names across multiple namespaces. For each namespace, the list shows the types it contains and their properties, and whether their names follow the standard naming convention, and indicates if they include descriptions and enumeration descriptions (for Enum types) that are identical to their names.

Use this dashboard to quickly evaluate if your model includes any types or properties with inconsistences in their name and description and to list them. Start by selecting a namespace that includes errors. Then, review the types that contain name or definition errors. For each type or property, the table shows its name, the number of properties with errors (types only), whether the first letter is an uppercase letter, the type name is a compound word with each element's initial letter capitalized, and if the description (and enumeration description for Enum types) exists or is the same as the type name.

- **NOTE:** The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - Getting Started

### **Getting Started**

To access this dashboard, on the Development Tools page, click Types Documentation Report.

T Development Tools ➤ Types Documentation Report				G+ Monday, October 10, 2016	8:26:07 AM - 9:26	:07 AM 60 minu	ites 👻 📔 🖬	Reports
🔁 Types Documentation Re	port							
Unit Tests dashboard with associated reports to test that	t Topology Types are	properly do	cumen	ted.				
			1					
Search		<u></u> ,	Fai	led Types for Monitoring Namespace				-
Namespace	Types with Error 🕶	Total Types			Search		P	• 10
Monitoring	593	650 *		Types with Errors	Properties with Errors	First Letter	Not Camel	Der
Server Administration	155	177		.,,	-	Uppercase	Case	
Server Administration3	154	176	۲	PowerVMServer	126	0	•	-
Infrastructure/Agents	19	20	0	PowerVMHostEthernetAdapterPhysicalP	ort 117	<b>S</b>	•	
Management Server/Servers/Data Management/Instances	13	13	0	PowerVMVirtualCenter	110	0	•	
Common	13 -	75	0	CatalystGenericService	104	0	•	
Meta Data 2	12	88	0	PowerVMVIOS	100	0	•	
Administration/Schedules/Manage Schedules	8	17	0	Sun_Host	100	0	•	
Administration/Schedules	7	13	0	Linux_Host	100	0	•	
Legacy Meta Data	7	78	0	PowerVMVIOSNetwork	100	0	•	
Diagram	5	9	0	PowerVMPhysicalFCAdapter	100	0	•	
Reports	4	4	0	UNIX_Host	100	0	•	
Foglight Units	4	10	0	Windows_Host	100	0	8	
Infrastructure/Agents/Properties	4	4	4			-	-	
Administration/Credentials/Agents	4	4						
Administration/Data/Derived Metrics	3	5	Fai	led Properties for PowerVMServer Type				-
Administration/Rules & Notifications/Manage Registry Variables	2	6			Search		P	• 19
Development Tools/Support/Tutorials/Tutorial 7	2	5		Property Name 🔺	First Letter	Not Camel	Descriptio	on
Administration/Agents/Agent Status	2	3	a	agregateAlarmīds	oppercase	Case		

### Figure 1. Types Documentation Report

### To explore type and property definition inconsistencies:

1 On the Development Tools page, click Types Documentation Report.

The Types Documentation Report dashboard appears in the display area.

2 Observe the list of namespaces on the left.

For each namespace, the table shows the number of types with errors, and the total number of types.

3 Click a namespace in the table.

The **Failed Types** and **Failed Properties** views on the right refresh, showing the selected namespace types and properties with errors.

4 In the Failed Types view, observe the type errors.

For each type, the table shows its name, the number of properties with errors, whether the first letter is an uppercase letter, the type name is a compound word with each element's initial letter capitalized, and if the description (or enumeration description for Enum types) exists or is the same as the type name.

5 In the **Failed Types** view, click a type.

The Failed Properties view refreshes.

6 In the Failed Properties view, observe the property errors.

For each property, the table shows its name, whether the first letter is an uppercase letter, the type name is a compound word with each element's initial letter capitalized, and if the description exists or is the same as the type name.

## **Finding Help Identifiers**

The Help Identifiers dashboard allows you to list help identifiers for a selected module or sub-module. Help identifiers can be embedded in help files to enable context-sensitive help for a specific component in the browser interface.

Start by selecting a module. For each help identifier, the list shows the related component name, its help ID, and the component purpose.

### NOTE:

- **NOTE:** The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - · Getting Started

### **Getting Started**

To access this dashboard, on the Development Tools page, click Help Identifiers.

```
Figure 1. Help Identifiers
```

€ Development Tools > Help Identifiers		G+ Monday, October 10, 2016 8:29:55	AM - 9:29:55 AM 60 minutes 👻 🗌	🖪 Reports 👻
Lists all the Help Identifiers for the views in the selecte	d Module.	_		
Administration	-	< Select a Module		
WCF Module Version 3-027				
			Search	<b>,</b>
Name 🔺		Help Id	Purposes	
(deprecated)Dashboard Header	view system:admi	inistration.138	page, pagelet	
Admin Dashboard Description	view system:admi	inistration.136	page, pagelet	
Administration	view system:admi	inistration.22	homepage, page	
Administration 56	view system:admi	inistration.administrationHome	page	
Admin Operations Toolbar	view system:admi	inistration.38	page, pagelet	
Agents - Dwell	view system:admi	inistration.54	page, pagelet	
Agents Dwell Information Table	view system:admi	inistration.55	page, pagelet	
Configure - Dwell	view system:admi	inistration.52	page, pagelet	
Configure Dwell Information Table	view system:admi	inistration.53	page, pagelet	

### To list help identifiers associated with a module:

1 On the Development Tools page, click Help Identifiers.

The Help Identifiers dashboard appears in the display area.

2 On the Help Identifiers dashboard, select a module.

The list of help identifiers refreshes, showing the help identifiers that are associated with the selected module.

3 Observe the list of help identifiers.

For each help identifier, the list shows the related component name, its help ID, and the component purpose.

6

Web Component Framework (WCF) definitions such as views and queries in Foglight<sup>™</sup> are organized into modules and sub-modules. A module is a collection of related WCF definitions. Each module in Foglight contains a collection of operational elements such as views, dashboards, sub-modules, and other entities. The Definitions Statistics dashboard gives a quick overview of how views are used in individual modules or sub-modules. It also shows the relationship of components such as views or associations with other components.

- **i** NOTE: The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - Getting Started
  - Exploring Component Dependencies and Usage
  - Viewing Module Definition Statistics

## **Getting Started**

To access this dashboard, on the Development Tools page, click **Definitions Statistics**. From there, start by selecting one or more modules in the **Module Selector** on the navigation panel.

### **Figure 1. Definitions Statistics**

$\overleftarrow{\tau}$ Development Tools > Definitions Statistics				G+ Monday, October 10, 2016 8:32:49 A	M - 9:32:49 AM 60 minutes 👻 🗎	🚡 Repor	rts 👻	
Definitions Statisti	cs							
Provides a list of dependencies and usag number of all "Pages" and "Reports" on a	es for selected entity in the s each individual module and o	select	ted purj	l modules also displays the statistics o poses.	f the system view's entities wi	th the		
Dependencies & Usages Statistics								
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Dependencies for Activity Heading			][	Usages for Activity Heading				
Search	, P <b>-</b>				Search	<i>»</i> -		
Name 🔺				Nar	me 🔺			
system:administration.activityHeader				system:administration.administration	New			
system:core_commons.62		1						

## **Exploring Component Dependencies** and Usage

WCF definitions can contain nested WCF definitions. For example, a dashboard can contain a several layers of nested views. Container views *depend* on nested views to retrieve or display information provided by the nested views. In that sense, container views *use* nested components. Exploring these relationships can help you better understand the overall design of the browser interface, improve the efficiency of your development cycles by creating reusable building blocks, and simplify the collection of dashboard artifacts by removing obsolete components that are no longer needed or referenced.

The **Dependencies & Usages** tab on the Definition Statistics dashboard helps you explore the relationships between the components in the selected module.

▼ Bookmarks		↑. Development Tools > Definitions Statistics			G• Monday, October 10, 2016 8:32:49 AM - 9:32:49 AM 60 minutes 💌 📑 Reports 💌					
There are no bookmarks										
▼ Homes	Ψ.	Definitions Statisti	CS							
Administration Agents Alarms Domains Hosts Reports Service Operations Console Welcome		Provides a list of dependencies and usag number of all "Pages" and "Reports" on Dependencies & Usages Statistics Views T	jes for selected entity in the each individual module and o	selecto ther p	ted modules also displays the statistics of the system view's entities with the purposes.					
▼ Dashboards	Ŧ				Search 🔎 🔫 🔫					
My Dashboards		View	Module 🔺		Qualified ID					
Administration		Activity Heading	Administration	syste	/stem:administration.activityHeading					
Development Tools		Activity Links - Administer	Administration	syste	em:administration.activityLinksAdminister					
Infrastructure		Activity Links - Agents	Administration	syste	em:administration.activityLinksAgents					
Log Monitor Management Server		Activity Links - Investigate	Administration	syste	em:administration.activityLinksInvestigate					
Services		Dependencies for Activity Heading			Usages for Activity Heading					
✓ Module Selector		Search	<i>P</i> •		Search 🔎 🔻					
Search	0 -	Name 🔺			Name 🔺					
	-	system:administration.activityHeader		-	system:administration.administrationNew					
Administration	Ĥ	system:core_commons.62								
🖾 🕑 Agent Adapter		L								

Figure 2. Dependencies & Usages tab on the Definition Statistics dashboard

Another way to view these relationships is by using the **Design** tab of the action panel. However, while the Definition Statistics dashboard shows only the components that are related to the selected component and defined in a selected module, the **Design** tab shows the related components regardless of the module in which they are defined.



Management Server Configural	tion 🛛 🕲 Monday, J	August 29, 2011 8:03 AM - 12:03 PM 4	4 hours 🔻 📔 🖪 Report	ts 🔻	General De	sign Help		
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rederation					Management	t Server Configu	ration Grid Layout	
Mode	Standalone		_		Property \	/iewer	Rows Layout	-
E Children	0	· Peers			Federat	tion Information	Table Cell-Oriented Ta	ble
					HA Info	rmation Table	Cell-Oriented Ta	ble
Server					Product	t	Row-Oriented T	able
Version		5.6.2			Federat	tion	Row-Oriented T	able
		5.6.2-201108261	444-153761		Databa	se	Row-Oriented T	able
Foglight Home		C:\Quest_Softwa	re\Foglight		11/14	~	Dow Oriontad T	abla
		C:\Quest_Softwa	re\Foglight\server		Definition	Layout Contex	d	
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					Name	Fed	deration Information Tal	ole 🔟
Max Alarm Undate Delay (m					Component	Cel	II-Oriented Table	
Max System Time Difference					Purpose(s)	Pag	ge, Pagelet	
Topology Queries		ITopologyObject			Comments			
Topology Refresh Period (m		1800000			Context Inputs			
Topology Itel esti Period (III					Key	Name Usage	Data Type	-
× [			F		•			- F

### To explore component dependencies and usage:

1 On the Development Toolspage, click **Definitions Statistics**.

The Definitions Statistics dashboard appears in the display area and the **Module Selector** appears on the navigation panel.

2 On the navigation panel, expand a node in the **Module Selector**.

A list of sub-modules appears.

Module Selector
Search 🔎 🔻
Administration
🗖 🖌 Agents
Agent Adapters
Agent Managers
🖾 🔲 Agent Status
FglAM Support Bundle
🖬 🕑 Cartridges
🛛 📄 Credentials
🗈 📄 Data
🖾 📄 Grouping
🖾 📄 Home
Release Notes
🖾 📄 Rules & Notifications
🖾 📄 Schedules
🖾 📄 Setup & Support
🖬 🔲 Tooling
🖬 📄 Users & Security
🗈 💽 Agent Adapter

- **i IMPORTANT:** The type and collection of available modules depend on the cartridges installed.
- **TIP:** Selecting a sub-module in the tree allows you to narrow down the statistics for a specific set of views in a module.
- 3 In the **Module Selector**, select one or more modules or sub-modules containing the components whose dependencies and usages you want to explore. For example, to explore the views included in the Setup & Support module, in the **Module Selector**, under Administration, select **Setup & Support**.

The **Dependencies & Usages** tab refreshes, showing the views that are defined in the selected module.

T Development Tools > Definitions Statistics		G+ Monday, October 10, 2016 8:37:57 AM - 9:37:57							
Definitions Statistics	6								
Provides a list of dependencies and usages for selected entity in the selected modules also displays the statistics of the syste number of all "Pages" and "Reports" on each individual module and other purposes.									
Dependencies & Usages Statistics									
Views 🔻									
		Search							
View	Module 🔺	Qualified ID							
Agent Status Summary	Agents	system:administration_agents.21							
Agent Status - View	Agents	system:administration_agents.16							
Edit Agent Properties	Agents	system:administration_agents.8							
Edit Agent Properties (Old)	Agents	system:administration_agents.54							
Generic Progress	Agents	system:administration_agents.60							
Properties Browser Frame	Agents	system:administration_agents.44							

4 Drill down on a view to see its dependencies and usages. In the list of views, select a view. For example, in the **View** column, scroll down and click **Property Viewer**. The Dependencies & Usages tab refreshes.

The **Dependencies** view shows one nested view. The **Usages** view indicates that the selected view is part of other container views.

- **i IMPORTANT:** A selected view can include additional nested views and be part of other container views that do are not listed here. That is because these views only list the components that are both related to the selected component and defined in the selected module.
- 5 To return to the Development Tools page, click **Development** Tools in the breadcrumb trail.

## **Viewing Module Definition Statistics**

A view can be a page, dashboard, home page, or have a combination of these purposes. For each module, the list shows the numbers of views that are defined as pages, reports, dashboards, home pages, global actions, pages (only), and the total number of views. The ratio of different view purposes in a module can reflect its complexity given its number of home pages, dashboards, and reports. It can also give you an idea on the work required to develop and maintain a module.

The **Statistics** tab on the Definition Statistics dashboard displays a summary of how views are used in individual modules or sub-modules.

### Figure 4. Statistics tab

Rookmarke		_									_
	-	1. Development Tools > Definitions !	Statistics			G+ Mo	onday, October 10, 201	6 8:37:57 AM - 9:3	7:57 AM 6	0 minutes 👻 🛛	Reports
There are no bookmarks		Dofinitions	Definitions Statistics								
Homes	Ŧ	Deminions									
Administration Agents Alarms Domains Hosts		Provides a list of depende number of all "Pages" and Dependencies & Usages Sta	encies and us d "Reports" o tistics	ages for sek n each indivi	ected entity in th idual module and	e selected module other purposes.	s also displays the s	statistics of the s	system vi	ew's entities w	ith the
Reports Service Operations Console Welcome		Search 🖌							• ۹		
Welcome		Module Name	Pages w	Reports		Purp	oses		Viewc	Functions	Queries
Dashboards	Ŧ	Fiberate Harrie	ruges -	Reports	Dashboards	Home Pages	Global Actions	Only Pages	victio	T directoria	Queries
My Dashboards		Total Counts	129	8	5	1	0	11	231	256	49
Administration Alarms		Blackouts	50	0	0	0	0	4	66	77	10
Development Tools			Administration	33	0	0	1	0	1	56	102
Infrastructure	- 1	Environment	19	7	0	0	0	1	62	53	22
Log Monitor	- 1	Agents	15	0	1	0	0	5	17	8	10
Reports	- 1	Setup & Support	7	0	4	0	0	0	9	3	4
Configuration	- 1	Communication with Dell	4	0	0	0	0	0	17	12	0
Module Selector	- 1	Cartridges	1	1	0	0	0	0	4	1	3
Search 0 +		Agent Adapter	0	0	0	0	0	0	0	0	0

### To see module definition statistics:

1 On the Development Tools page, click **Definitions Statistics**.

The Definitions Statistics dashboard appears in the display area and the **Module Selector** appears on the navigation panel.

2 On the navigation panel, expand a node in the Module Selector.

A list of sub-modules appears.



- **IMPORTANT:** The type and collection of available modules depend on the range of installed cartridges.
- **TIP:** Selecting a sub-module in the tree allows you to narrow down the statistics for a specific set of views in a module.
- 3 In the **Module Selector**, select all modules and sub-modules whose view definition statistics you want to see.

The Definitions Statistics dashboard refreshes, showing the views defined in the selected modules.

▼ Bookmarks	T. Development Tools ≻ E	efinitions Stat	tistics			G+ Monday, October 10, 20		
There are no bookmarks	📄 Definit	ione C	tatiatia					
Dashboards  v Provides a list of dependencies and usages for selected entity in the selected modules also displays the								
▼ Module Selector	number of all	Pages" and "R	leports" on e	ach individual modu	ile and other purpos	ses.		
Search 🔎 🗸	Dependencies & Usa	ges Statist	ics					
🗏 🕑 Administration 🔪 🛛 🔺								
🖬 📄 Agents	Madula Nama	Deserve	Penorte	Purposes				
🖬 🕜 Cartridges	Module Name	Pages 🔻	Reports	Dashboards	Home Pages	Global Actions (		
🖬 📄 Credentials	Total Counts	34	1	0	1	0		
🗉 📄 Data	Administration	33	0	0	1	0		
🗉 📄 Grouping	Cartridges	1	1	0	0	0		
🖽 📄 Home	Agent Adapter	0	0	0	0	0		
Release Notes	1							
🖾 🔲 Rules & Notifications								
🖾 🔲 Schedules	/							
🖬 📄 Setup & Support	1							
🗉 📄 Tooling								
🖬 📄 Users & Security								
🖬 💽 Agent Adapter								
🖬 🦳 Alarms	I							

4 Observe the view definition statistics.

For each module, the Definitions Statistics dashboard shows the numbers of views that are defined as pages, reports, dashboards, home pages, global actions, pages (only), and the total number of views.

# Viewing and Managing Persistence Storage Usage

The Persistence Storage Usage dashboard allows you to view the amount of data persisted to the database for each individual dashboard, and the size of these data blocks. For each data block, it shows its size and the date and time it was last modified. You can delete these data blocks to restore the dashboards to their original state, as required. Data blocks are stored in the database. Sorting them by size tells you which data blocks are utilizing highest amounts of database resources which may affect the overall database performance, and delete them, as required, to improve the database performance.

- **NOTE:** The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - Getting Started

## **Getting Started**

To access this dashboard, on the Development Tools page, click Persistence Storage Usage.

Figure 1. Persistence Storage Usage

Ť D	velopment Tools > Page persistence table	G+ Monday, October 10, 2016 9:03:39 AM - 10:03:39 AM (	30 minutes 👻 📔 🖬 Reports 👻
	Persistence Storage Usage		
	Storage details of the WCF user and site persistence mechanisms. View and r	manage page-level persistence blocks.	
1	Delete	Search	<b>,0 +</b> - Ę
	Name	Size 👻	Last Modified
	states/system_administration_blackout_configuration.36.xml	1.7 KB	10/9/16 5:29 PM 🔺
	states/system_wcf_tools_definitions20statistics.3.xml	1.6 KB	10/10/16 9:57 AM
	states/system_infrastructure.mainViewOfTheModule.xml	1.5 KB	10/9/16 5:29 PM
	states/system_foglight.2.xml	1.1 KB	10/9/16 5:29 PM
	states/system_foglight_hosts.8.xml	1.0 KB	10/9/16 5:29 PM
	states/system_foglight_services.28.xml	986 B	10/9/16 5:29 PM
	states/system_wcf_tools_schema20browser.schemaBrowser.xml	777 B	10/9/16 5:29 PM
	states/system_corems.objectUsage.xml	748 B	10/9/16 5:29 PM
	states/system_performance_fglam.1.xml	700 B	10/9/16 5:29 PM
	states/system_wcf_tools_module20validation.moduleValidation.xml	660 B	10/9/16 5:29 PM
	states/system_oshost.storageDetailDashboard.xml	659 B	10/9/16 5:29 PM
	states/system_core_commons.115.xml	656 B	10/9/16 5:29 PM

i NOTE: The type and collection of data blocks depends on the range of installed cartridges.

### To view and manage persistence storage usage:

1 On the Development Tools page, click Persistence Storage Usage.

The Persistence Storage Usage dashboard appears in the display area.

2 Observe the view definition statistics.

For each data file, the Persistence Storage Usage dashboard shows its size and the date and time it was last modified.

3 To delete one or more data files, select them in the table and click **Delete**.

The Confirm File(s) Delete dialog box appears.

- 4 To proceed, click **Delete**.
- 5 To return to the Development Tools page, click **Development** Tools in the breadcrumb trail.

# **Validating Modules**

Each Foglight<sup>™</sup> module contains a collection of operational elements such as views, dashboards, sub-modules, and other entities. Use the Module Validation dashboard to validate a module or sub-module and review the related messages. For each selected module or sub-module, the list shows the total number of error, warning, and information messages, and then the number of error, warning, and information messages for each entity in the module. Drilling down on a message number shows the validation message in a separate dialog box. Use this information to improve module definitions as you develop.

- i NOTE: If the Show deprecated definitions user preference setting is enabled, the numbers of messages related to deprecated components appear as a separate number in the list, and are marked Deprecated. To access the User Preferences, on the navigation panel, under Dashboards, select Configuration > User Preferences. For complete information about configuring user preferences, see the Foglight User Guide.
- **i** NOTE: The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - Getting Started

## **Getting Started**

To access this dashboard, on the Development Tools page, click **Module Validation**. From there, start by selecting one or more modules or sub-modules in the **Module Selector** on the navigation panel.

• Bookmarks	₹. Development Tools > I	. Development Tools > Module Validation C- Monday, October 10, 2016 9:05;21 AM - 10:05;21 AM 60 minutes 👻 📘 Repo								
There are no bookmarks	Modul	o Validation								
• Homes •	iviouui									
Administration Agents	A Validation To	A Validation Tool which invokes some validations and displays the results for each entity in the module including Errors and Warnings.								
Domains					Search	,© <del>-</del>				
Hosts		Madda.	Veldetter		Total Messages					
Service Operations Console		Module 🔺	validation	Errors	Warnings	Informations				
Welcome	Administration	Administration 😵			91					
• Dashboards •	Agents		<u>^</u>	0	2					
My Dashboards	Development Tools		<b>O</b>	0	0					
Infrastructure Log Monitor Management Server Reports Services Configuration	Validation Details for a	Administration Module			Search	<i>p</i> -				
<ul> <li>Module Selector</li> </ul>	Entity Type	Entity Name			Messages					
Search 🔎 🗸	Endey Type =	Linuty Home		Errors	Warnings	Informations				
Administration		LicenseCapability		0	1					
Agent Adapter		LicenseAvailability		0	1					
🖾 🖂 Alarms		LicenseExpiry		0	1					
Dependency Mapping	Renderer	LicenseExpiry30		0	1					
Development Tools		Currently Licensed Capabilities Text		0	1					
🗌 foglight		Current Statistics Text		0	1					
Hosts		License Information Text		0	1					
💷 🖂 Infrastructure		Administration								
		Auministration		2	0					
Log Monitor	View	Current Licensed Capabilities Information Table		2	0					

### Figure 1. Module Validation

### To validate a module:

1 On the Development Tools page, click **Module Validation**.

The Module Validation dashboard appears in the display area.

2 On the navigation panel, expand a node in the **Module Selector**.

A list of sub-modules appears.



- **i IMPORTANT:** The type and collection of available modules depend on the range of installed cartridges.
- **TIP:** Selecting a sub-module in the tree allows you to narrow down the statistics for a specific set of views in a module.
- 3 In the Module Selector, select all modules and sub-modules that you want to validate.

The Module Validation dashboard refreshes, showing the views defined in the selected modules.

<ul> <li>Bookmarks</li> </ul>		t. Development Tools > M	odule Validation	G+ Mo	nday, October 10, 2016 9:09	35 AM - 10:09:35 AM 60 m	inutes 💌 📑 Reports 💌
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Administration Agents		A Validation To	ol which invokes some validations and displ	ays the results for each en	tity in the module includir	ig Errors and Warnings	
Domains	11					Search	🔎 👻 — EŞ
Hosts						Total Messages	
Service Operations Console			Module 🔺	Validatio	n Errors	Warnings	Informations
Welcome		Administration		8	39	91	0 🔺
<ul> <li>Dashboards</li> </ul>	Λ	Alarms		8	25	59	0
Module Selector		Development Tools		0	0	0	0
Search .	$\langle \rangle$	۶					
Administration	•/						
🖾 🗌 Agent Adapter							-
🛙 🕑 Alarms							
Dependency Mapping		Validation Details for A	dministration Module				<b>^</b>
Development Tools	_					Search	<b>,</b>
🔲 foglight						Messages	
🖬 📄 Hosts		Entity Type 🔺	Entity Name		Errors	Warnings	Informations
🛙 📄 Infrastructure			LicenseCapability		0	1	0 🔺
🖾 🔲 Log Monitor			LicenseAvailability		0	1	0

4 Observe the module validation statistics.

For each selected module or sub-module, the top table shows the validation state (Normal  $\bigcirc$ , Warning  $\triangle$ , or Fatal  $\bigotimes$ ), and the number of error, warning, or informational messages associated with that component.

5 View detailed validation results for a specific module or sub-module.

a In the top table, click a row containing a module or sub-module.

On the Module Validation dashboard, the **Validation Details** table refreshes, listing the individual module entities against which one or more validation messages are generated.

The Development Tools ≻ Module Validation		G+ Monday, O	G= Monday, October 10, 2016 10:39:29 AM - 11:39:29 AM 60 minutes 💌 📔 Reports 🤘				
🌆 Modu	le Validation						
A Validation 1	Tool which invokes some validations and dis	plays the results for each entity in	the module including	Errors and Warnings.			
			Search		<i>p</i> •		
	Medula	Validation	Total Messages				
Module 🔺		Validation	Errors	Warnings	Informations		
Administration		8	39	91	0		
Agents		4	0	2	0		
Alarms		8	25	59	0		
Development Tools		<b>O</b>	0	0	0		
$\backslash$							
```	7						
Validation Details for	Agents Module						
				Search	۶ ج		
		_	Messages				
Enuty Type 🔺	Linuty Name		Errors	Warnings	Informations		
View	Agent Status - View		0	1	0		
View	Agent Status View		-				

b Observe the Validation Details table.

For each entity, the table shows its type, name, and the numbers of error, warning, and informational messages.

c Review an entity's error, warning, or informational messages by clicking the related columns.

A dialog box appears, listing the messages of the selected type that are associated with the entity.

Validation Messages for Manage Rules & Notifications Dwell Information Table (View)
🔀 Error Messages
The view "Manage Registry Variables" may not be referenced in the Flow because it is deprecated or not public
The "Next page" Flow type using View "Manage Registry Variables" is invalid because the View is not of purpose "Dashboard" nor "Page" or its required Context Inputs are not satisfied by this Definition or the View may not be referenced because it is deprecated or not public

d Use this information to improve module definitions as you develop.

## **Validating Data Sources**

A data source contains information that is displayed in Foglight<sup>™</sup>. This information is stored in data objects as object properties. A data source encapsulates all the system knows about the collected data. It is organized as a dynamic graph of object types, starting from a root that represents the entire data model. The Data Source Validation dashboard allows you to select a data source and check if that data source has a root, and that the root type has properties defined. Detecting and solving data source, they appear in the list. For each error, the list shows its type and the error description. The overall data source validation result also appears on the dashboard. Use this information to improve data source definitions as you develop. Warning messages usually appear for information purposes only, to indicate a non-fatal conditions. Unlike fatal messages, they do not prevent the data source from being validated.

- **NOTE:** The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - Getting Started

## **Getting Started**

To access this dashboard, on the Development Tools page, click Data Source Validation.

### Figure 1. Data Source Validation

T. Development Tools > Datasource Validation Results Oct 10, 2016 10:16:45 AM CST a Report								
<b>E</b>	Data Source Validation							
	A series of Data Source Validation Tests to check that a root exists, root type has properties and at least one of the root properties is not null.							
foglig	pht-5 🔹	< Select a Data Source						
DataSource 'Monitoring:foglight-5' - Validation result is: fail 🔇								
		Search		<i>p</i> -				
Name		Messages						
error	dataObject with uniqueId: /anonymous/2f4898a4-def7-44ef-a1c8-cd35b27b	21f5 of type: foglight-5:Metric marked as reloabla	ble however after	it was reloa				
error	metric: DataObject of type 'foglight-5:Metric' for datasource: 'foglight-5:foglig	ht-5':/anonymous/2f4898a4-def7-44ef-a1c8-cd3	5b27b21f5DataOb	ject return				
error	dataObject with uniqueId: /anonymous/e38900d0-9fa2-491a-b93d-6aa42cc	f0872 of type: foglight-5:Metric marked as reloabl	able however after	r it was rek				
error	metric: DataObject of type 'foglight-5:Metric' for datasource: 'foglight-5:foglig	ht-5':/anonymous/e38900d0-9fa2-491a-b93d-6a	a42ccf0872DataO	bject retur				
error	dataObject with uniqueId: /anonymous/86fd8ba6-0100-4e77-a21a-f50256a	7e62e of type: foglight-5:Metric marked as reloab	lable however afte	r it was rel				
error	metric: DataObject of type 'foglight-5:Metric' for datasource: 'foglight-5:foglig	ht-5':/anonymous/86fd8ba6-0100-4e77-a21a-f5	0256a7e62eDataC	bject retu				
error	dataObject with uniqueId: /anonymous/0853bbae-9701-4822-939f-692fba6	281f6 of type: foglight-5:Metric marked as reloabl	able however after	r it was rek				
error	metric: DataObject of type 'foolight-5:Metric' for datasource: 'foolight-5:foolig	ht-5':/anonymous/0853bbae-9701-4822-939f-69	2fba6281f6DataO	biect retur				

### To validate a data source:

1 On the Development Tools page, click Data Source Validation.

The Data Source Validation dashboard appears in the display area.

2 On the Data Source Validation dashboard, select a data source.

If any validation errors exist for the selected data source, they appear in the list.

3 Observe the list of data source validation errors.

For each help identifier, the table shows its type and description. The overall validation result also appears just above the table. You can use this information to improve data source definitions, as required.

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We are on a quest to make your information technology work harder for you. That is why we build communitydriven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation<sup>™</sup>.

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