# Foglight<sup>™</sup> 5.7.0 Dashboard Support Guide



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### Legend

CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

WARNING: A WARNING icon indicates a potential for property damage, personal injury, or death.

IMPORTANT NOTE, NOTE, TIP, MOBILE, or VIDEO: An information icon indicates supporting information.

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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.

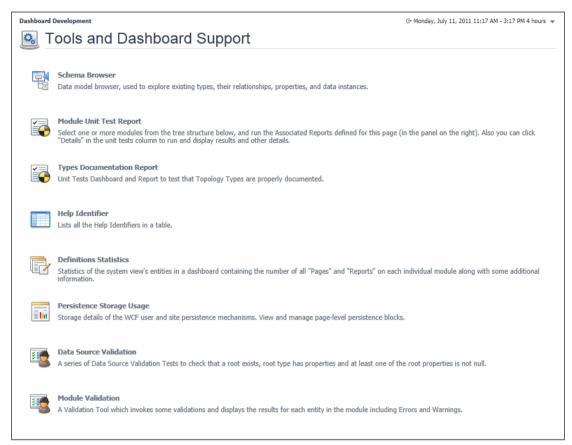
- O NOTE: The Cartridge Developer role grants access to this dashboard. Your Foglight account must have this role to access this dashboard.
  - Getting Started

### **Getting Started**

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

### 1

### Figure 1. Dashboard Development page



The Tools and Dashboard Support 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:

- Exploring the Data Model on page 7
- Reporting on Module Unit Tests on page 12
- Exploring Type and Property Definition Inconsistencies on page 17
- Finding Help Identifiers on page 19
- Exploring Module Definitions on page 21
- Viewing and Managing Persistence Storage Usage on page 28
- Validating Data Sources on page 35
- Validating Modules on page 30

# **Exploring the Data Model**

Foglight<sup>™</sup> collects data from the monitored system and uses that data to dynamically build topology models at run-time. 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 Tools and Dashboard Support page, click Schema Browser.

#### Figure 2. Schema Browser

📑 Schema 🛙	Browser					
Data model Schema B	rowser, used to explore	existing Namespaces, Typ	es, their relationships, pr	opert	ies, and da	ta instances.
Host			▼ < Select to Bro	owse	Recent Se	
Namespace Monitoring Type Description Description i	s the same as Type name					tion (Namespace)
Id Host Validation 😥 Possible						amespace) /ASP (Type)
Local Properties					Super Ty	pes Sub Types Instances
		Search	, P <del>-</del>	10	Host	
Name 🔺	Description	Type Name	Unlocalized Name		extends	CollectionModelInstance
agents	agents	Agent (List)	agents	-	extends	ModelInstance
availablePagingSpace	availablePagingSpace	Metric (percent)	availablePagingSpace		extends	TopologyObject
contextSwitches	contextSwitches	Metric (count/second)	contextSwitches	-	extends	DataObject
Inherited Properties					extends	Object
		Search	۶ - 🤉	1		
Name 🔺	Description	Type Name	Unlocalized Name			
aggregateAlarmIds	aggregateAlarmIds	AlarmIdListObservation	aggregateAlarmIds			
aggregateAlarms	aggregateAlarms	Alarm (List)	aggregateAlarms			
annrenate@larmState	angregate∆larmState	∆larmStateObservation	angregate∆larmState	-		

# **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 Tools and Dashboard Support page, click Schema Browser.

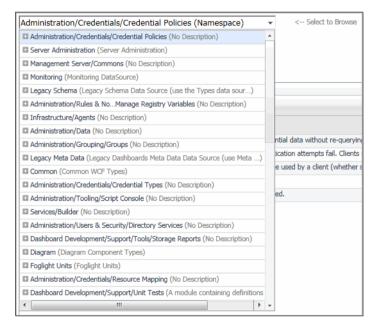
The Schema Browser appears in the display area.

2 Select a namespace.

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

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

#### Figure 3. Namespaces



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.

#### Figure 4. Topology types associatd with a 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 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.

#### Figure 5. Schema Browser displaying information about a selected namespace

Data model Schema B	rowser, used to explore existin	ng Namespaces, Types, their	relationships, propert	ies, and data instances.		
Monitoring		•	< Select to Browse	Recent Selections Monitoring (Namespace)		
Namespace Description Not e Id foglic	enough information provided (N 9ht-5	lonitoring)		Users & Security (Names Usage Feedback (Names Script Console (Namespa		
Types for Monitoring Namesa	apce					
				Search		
Name 🔺	Description	Unlocalized Name		Super Type		
Abstract Log Message	Abstract Log Message	AbstractLogMessage	Data0bject	t		
AccessInformation	AccessInformation	AccessInformation	TopologyO	bject		
ActiveDependency	ActiveDependency	ActiveDependency	AbstractDe	pendency		
AdminConfigTemplate	AdminConfigTemplate	AdminConfigTemplate	Topology0	bject		
Agent	Agent	Agent	Topology0	bject		
AgentHealthState	AgentHealthState	AgentHealthState	Enumeratio	n		
AgentListObservation	AgentListObservation	AgentListObservation	ComplexOb	servation		
AgentListValue	AgentListValue	AgentListValue	ObservedV	alue		
AgentState	AgentState	AgentState	Enumeratio	n		
AgentStateObservation	AgentStateObservation	AgentStateObservation	EnumObser	vation		

- 5 In the Schema Browser, drill down on a type by clicking its entry in the table.
  - **TIP:** Another way to drill down on a type is to click a type entry in the Select to Browse list.
  - 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 refreshes, showing additional information about the selected type.

Figure 6. Schema Browser displaying information about a selected type

Data model Schema B	Browser, used to explore	existing Namespaces, Typ	es, their relationships, pr	oper	ties, and dat	a ins	tances.	
	,							
gent			<ul> <li>Select to Bro</li> </ul>	owse	Agent (Ty		13	
Namespace Monitoring					Monitoring		nespace)	
pe Description Description i	is the same as Type name				-		(Namespace)	
Id Agent					Usage Fee	dbad	k (Namespace)	
Validation 😢 Possible	Localization Failure							
ocal Properties					Super Ty	pes	Sub Types Instances	
		Search	Q <del>.</del>	15	Agent			
Name 🛦	Description	Type Name	Unlocalized Name		extends	Торо	ologyObject	
agentID	agentID	Integer	agentID	-	extends	Data	Object	
agentInstance	agentInstance	String	agentInstance		extends	Obje	ct	
agentName	agentName	String	agentName					
agentVersion	agentVersion	Strina	agentVersion	-				
Inherited Properties								
		Search	<b>P</b> +					
News	Description		Unlocalized Name					
Name 🔺	Description aggregateAlarmIds	Type Name AlarmIdListObservation						
aggregateAlarms	aggregateAlarms	Alarm (List)	aggregateAlarms					
aggregateAlarmState	aggregateAlarmState	AlarmStateObservation						
aggregateChangeCo	aggregateChangeCo	Integer	aggregateChangeCo	-				

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 (Namespace) String (Type)	Recent Selections Monitoring (Namespace)	data instances
Recent Selections Monitoring (Namespace)	Recent Selections Monitoring (Namespace) String (Type)	data instances
Monitoring (Namespace)	Monitoring (Namespace) String (Type)	
	String (Type)	cent Selections
String (Type)		nitoring (Namespace)
		ing (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.
- 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.

### Figure 7. Sub Types tab

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.

Figure 8. Sub Type dependencies



① TIP: Use the breadcrumb trail to return to the Schema Browser.

• Instances: This tab shows a list of this type's instances.

### Figure 9. linstances tab

Super Types	Sub Types Ins	stances
	Search	, <b>D</b> +
Name 🔺		
July19-WinSys		

6 To return to the Tools and Dashboard Support page, click Dashboard Development in the breadcrumb trail.

# **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.

- O 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 Test Results
  - Publishing Module Unit Test Results to a Report

### **Getting Started**

To access this dashboard, on the Tools and Dashboard Support page, click Module Unit Test Report.

#### Figure 10. Module Unit Test Report

"Details" in the unit tests colu	e structure below and i mn to run and display :			or this pag	e (in the right page	panel). Als	so you c	an click	
					Search			<i>p</i> -	-
Module Name 🔺	Total Functions	Total Queries	Functions With U	nitTests	Queries With Unit	Tests	Uni	t Tests	
Dashboard Development	0	0	0	(0%)	0	(0%)	-		
🗄 📄 Hosts	7	3	0	(0%)	0	(0%)	-		
Infrastructure	0	0	0	(0%)	0	(0%)	-		
🗉 📄 Agents	65	2	0	(0%)	0	(0%)	-		
AIX 📄	3	0	3	(100%)	0	(0%)	<b>1</b>	Details	
Common Host	2	2	0	(0%)	0	(0%)	-		
Credential Configutions	0	0	0	(0%)	0	(0%)	-		
HPUX	3	0	3	(100%)	0	(0%)	<b>E</b>	Details	
Linux	3	0	3	(100%)	0	(0%)	-	Details	
OSs	3	0	3	(100%)	0	(0%)		Details	

## **Exploring Module Unit Test Results**

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 Tests Report, use the breadcrumb trail.

### Figure 11. Returning to the Module Unit Tests Report

1odule: Windows		sts Result		G+ Monday, June 27, 3	2011 6:45 AM - 10:45 AM 4	hours	
otal Functions: 3							
	Total Queries:	0	_				
unctions with Unit Tests: 3	Queries with Unit Tests:	0					
All Function Unit Tests for Module Wi	indows						
Function Name 🔺	Unit Test	Name		Duration (milliseconds)	Result State		
Get Domain Objects From Service	Test for no errors			0	Passed		
Get Domain Objects of Severity	Test for no errors			0	Passed		
Store Severity Counts for Service	Test for not null			-1	🚯 Error Occured		
•						P.	
Query Name 🔺	Unit Test			Duration (milliseconds)	Result State		
	No	Unit Test I	has defined.				
Onit Tests are defined for all Function	tions		🛛 Unit Tests	are defined for all Queries			
Function Name		:2	Query Name				
All Items Have	e Unit Tests		All Items Have Unit Tests				

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 results:

1 On the Tools and Dashboard Support page, click Module Unit Test Report.

The Module Unit Test Report 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.

#### Figure 12. Module Unit Tests Result

suls in a	T 1 1 0 1							
otal Functions: 3	Total Queries: 0							
unctions with Unit Tests: 3	Queries with Unit Tests: 0							
All Function Unit Tests for Module V	Vindows							
Function Name 🔺	Unit Test Name		Duration (milliseconds)	Result State	1			
Get Domain Objects From Service	Test for no errors		0	Passed	-			
Get Domain Objects of Severity	Test for no errors		0	Passed				
Store Severity Counts for Service	Test for not null		-1	🚯 Error Occured				
•					- P - 9			
Unit Tests are defined for all Fur	No Unit Test I		are defined for all Queries					
Function Name		Query Name			:;			
All Items Have		All Items Have Unit Tests						

6 Observe the Module Unit Test 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.

#### Figure 13. Error Details



- 8 To return to the Module Unit Tests Report, use the breadcrumb trail in the display area.
- 9 To return to the Tools and Dashboard Support page, click **Dashboard Development** in the breadcrumb trail.

# Publishing Module Unit Test Results to a Report

Foglight<sup>™</sup> comes with report templates that you can use to publish module unit test results 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 Tools and Dashboard Support page, click Module Unit Test Report.

The Module Unit Test Report 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.

### Figure 14. Reports menu dwell



- 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.

5 To return to the Tools and Dashboard Support page, click **Dashboard Development** in the breadcrumb trail.

### 4

# 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 Tools and Dashboard Support page, click Types Documentation Report.

#### Figure 15. Types Documentation Report

Dashboard Development > Types Documentation Repo	rt						G+ Monday, J	une 27, 2011 9:	:56 AM - 1:56 P	M 4 hours		
📮 Types Documentati	on Report											
Unit Tests dashboard with associated reports	s to test that Topology 1	Types are	e prop	oerly d	ocumented.							
Searc	h	<i>p</i> -	1	Failed Types for Monitoring Namespace								
Namespace	Types with Error 👻	Total Types			Search			\$	) • (			
Monitoring Server Administration	383	383	*		Types with Errors	Properties with Errors	First Letter Uppercase	Not Camel Case	Description	Er Desc		
server-admin3	176	176		۲	CatalystDatabaseStatus	87	0	•	•			
Meta Data 2	82	83		0	CatalystGenericService	41	0	8	۲			
Legacy Meta Data	70	76		O	FglamClientInstance	25	0	•	•			
Common	55	75		•						- F -		
Administration/Credentials	22	22		Enile	d Drapartian for Catalust	)atabagaCtat	Tuno					
Administration/Credentials/Resource Mapping	15	15		Failed Properties for CatalystDatabaseStatus Type					_			
Administration/Setup & Support/Environment	13	13		Search			,	) = III (				
Administration/Schedules	13	13		Property Name 🔺			First Letter Uppercase	Not Came Case	el Descri	ption		
Infrastructure/Agents	12	12		avg	_inserts_per5min		•	8		3		
Units	11	11		cre	ated_tmp_disk_tables		•	8	6	3		
Foglight Units	11	11		crei	ated tmp files		ö	Ö	6	3		
Diagram	9	9			ated_tmp_tables		ō	ö	6	-		
Dashboard Development/Support/Unit Tests	8	11	-	4						-		

### To explore type and property definition inconsistencies:

1 On the Tools and Dashboard Support page, click Types Documentation Report.

The Types Documentation Report 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.

7 To return to the Tools and Dashboard Support page, click **Dashboard Development** in the breadcrumb trail.

# **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:

- O 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 Tools and Dashboard Support page, click Help Identifiers.

#### Figure 16. Help Identifiers

T Dashboard Development > Help Identifiers	G+ M	onday, June 27, 2011 10:53 AM - 2:53 PM 4	hours
Help Identifiers			
Lists all the Help Identifiers for the view	is in the selected Module.		
Administration	▼ <-	- Select a Module	
WCF Module Version 3-027			
		Search 🔎 🗸	· 16
Name 🔺	Help Id	Purposes	
(deprecated)Dashboard Header	view system:administration.138	page, pagelet	
Admin Dashboard Description	view system:administration.136	page, pagelet	_
Administration	view system:administration.22	dashboard, homepage	
Admin Operations Toolbar	view system:administration.38	page, pagelet	
Agents - Dwell	view system:administration.54	page, pagelet	
Agents Dwell Information Table	view system:administration.55	page, pagelet	
Configure - Dwell	view system:administration.52	page, pagelet	
Configure Dwell Information Table	view system:administration.53	page, pagelet	
Configure Links Group	view system:administration.79	page, pagelet	
Confirmation Dialog	view system:administration.133	dialog, page, pagelet	
Create Data Dwell Information Table	view system:administration.45	page, pagelet	

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

- 1 On the Tools and Dashboard Support 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.

4 To return to the Tools and Dashboard Support page, click Dashboard Development in the breadcrumb trail.

# **Exploring Module Definitions**

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.

- 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 Tools and Dashboard Support page, click **Definitions Statistics**. From there, start by selecting one or more modules in the **Module Selector** on the navigation panel.

### Figure 17. Definitions Statistics

E Dashboard Development > Definitions Statistics	tics	[හ] Mond	ay, August 29, 2011 8	03 AM - 12:03 PM 4 hours 💌	🖪 Repo	rts
Provides a list of dependencies and us view's entities with the number of all "	ages for selected enti				the system	1
Dependencies & Usages Statistics						
Views -						
				Search	<i>p</i> -	-
View 🔺	Mode	ıle		Qualified ID		
(Deprecated)Audit Information Table	Setup & Sup	port	system:administr	ation_setupsupport.7		ŀ
Audit Information Row Table	Setup & Sup	port	system:administr	ation_setupsupport.33		
Connection Status	Setup & Sup	port	system:administr	ation_setupsupport.5		
Email Configuration	Setup & Sup	port	system:administr	ation_setupsupport.82		
Foglight Configuration Old	Setup & Sup	port	system:administr	ation_setupsupport.4		
LinkFrame	Setup & Sup	port	system:administr	ation_setupsupport.35		
Manage Licenses	Setup & Sup	port	system:administr	ation_setupsupport.3		
Management Server Configuration	Setup & Sup	port	system:administr	ation_setupsupport.16		
Dependencies for Management Server Config	juration	Usage	s for Management S	Server Configuration		
Search	<i>p</i> -			Search	<i>p</i> -	
Name 🔺				Name 🔺		
$system: administration\_foglight\_configuration$	n.14	system	m:administration.57	7		-
		system	m:administration.na	agivationStandalone		
		system	m:administration.na	avigationMaster		
		system	m:administration.qu	uickStatisticsMaster		1
		system	m:administration.qu	uickStatisticsStandalone		
						-

# 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.

### Figure 18. Dependencies & Usages tab on the Definition Statistics dashboard

Bookmarks     There are no bookmarks     Homes     Dashboards     Administration     Alarms     Dashboard Development     Hosts     Infrastructure     Management Server	Devides a list of deve device and server	CS is for selected en	tity in the sele		atistics of the	
Reports				Search	<i>p</i> -	÷
Services Configuration	View 🔺	1	1odule	Oualified ID		_
-	(deprecated)Dashboard Header	Administr	ation	system:administration.138		-
▼ Module Multi Selector (Tree)	Admin Dashboard Description	Administr	ation	system:administration.136		
Search 🔎 🔻	Administration	Administr	ation	system:administration.22		
Administration	Admin Operations Toolbar	Administr	ation	system:administration.38		
Agent Adapter	Agents - Dwell	Administr		system:administration.54		
Alarms	Agents - Dweir	Administr	auon	system.auministration.J+		*
Dashboard Development	Dependencies for (deprecated)Dashboard Head	er	Usages for (d	leprecated)Dashboard Header		
foglight	Search	<i>p</i> -		Search	<i>p</i> -	
Infrastructure	Name 🔺			Name 🔺		
Management Server	system:administration.administrativeDashboard	HeaderIcon *	system:adm	inistration_agents.16		
Reports	system:administration.administrativeDashboard	HeaderText				
	•	+ 4				

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.



1		a di Lata				Name	Туре	
ederation					Managemer	t Server Configuration	on Grid Layout	
Mode Standale	ne 🖂		_		Property	Viewer	Rows Layout	
Children 0					Federa	tion Information Tab	le Cell-Oriented Tabl	e
					HA Inf	ormation Table	Cell-Oriented Tabl	e
erver					Produc	t	Row-Oriented Tab	le
		5.6.2			Federa	tion	Row-Oriented Tab	le
			1444-153761		Databa	ise	Row-Oriented Tab	le
Foglight Home		C:\Quest_Softwa	are\Foglight		TVM		Dow Oriented Tab	ما
			are\Foglight\server		Definition	Layout Context		
					Par Inspect			
					Module	Admin	istration	
					Name	Federa	ation Information Table	1
					Component	Cell-O	riented Table	
					Purpose(s)	Page,	Pagelet	
		!TopologyObject			Comments			
					Context Inputs			
				Ŧ	Key	Name Usage	Data Type	

To explore component dependencies and usage:

1 On the Tools and Dashboard Support 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.

Figure 20. Sub-modules in the Module Selector



- **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.

### Figure 21. Dependencies & Usages tab

Dashboard Development > Definitions Statistics	[0]	Monday, /	August 29, 2011 8:03 AM - 12:03 PM 4 hours 💌	Reports
🛃 Definitions Statist	ics			
			he selected modules also displays the stat " on each individual module and other pu	
Dependencies & Usages Statistics				
Views 👻				
			Search	<b>P</b> •
View 🔺	Modul	e	Qualified ID	
(Deprecated)Audit Information Table	Setup & Supp	ort	system:administration_setupsupport.7	-
Audit Information Row Table	Setup & Supp	ort	system:administration_setupsupport.33	
Connection Status	Setup & Supp	ort	system:administration_setupsupport.5	
Email Configuration	Setup & Supp	ort	system:administration_setupsupport.82	
Foglight Configuration Old	Setup & Supp	ort	system:administration_setupsupport.4	-
Dependencies for (Deprecated)Audit Informat	ion Table	Usage	s for (Deprecated)Audit Information Table	
Search	<i>p</i> -		Search	<i>p</i> -
Name 🔺			Name 🔺	
Selected entity doesn't have any depen	dencies.		Selected entity doesn't have any usage	es.

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.

### Figure 22. Property Viewer

Dependencies for Management Server Configuration	Usages for Management Server Configuration	
Search 🔎 🕶	Search 🔎 🗸	
Name 🔺	Name 🔺	
system:administration_foglight_configuration.14	system:administration.57	•
	system:administration.nagivationStandalone	
	system:administration.navigationMaster	
	system:administration.quickStatisticsMaster	-1
	system:administration.quickStatisticsStandalone	,
		_

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

- 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 Tools and Dashboard Support page, click **Dashboard Development** 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 23. Statistics tab

Bookmarks     There are no bookmarks     Homes		T. Dashboard Develop     Territory     Territory     Territory     Territory			atistics (©) Mo		011 8:03 AM - 12:0	3 PM 4 hours 💌	🖪 Reports 🔻
<ul> <li>▼ Dashboards</li> <li>☑ Administration Alarms</li> </ul>	Ŧ	Provides a	list of dep of the syste	endencies em view's	s and usages fo	or selected entit	y in the selected "Pages" and "Re		
Dashboard Development Hosts Infrastructure Management Server		Dependencies &	Usages	Statistics			Search		<b>,</b>
Reports Services Configuration		Module Name	Pages 👻	Reports	Dashboards	Purp Home Pages	ooses Global Actions	Only Pages	Total Views
Module Multi Selector (Tree)		Total Counts Administration	<b>49</b> 49	0	48 48	1	0	0	52 52
Search $\wp$ -	•								
<ul> <li>Agent Adapter</li> <li>Alarms</li> </ul>									
Dashboard Development foglight									
Hosts     Infrastructure									
Management Server	•								

To see module definition statistics:

1 On the Tools and Dashboard Support 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.

### Figure 25. Definition Statistics displaying views selected in the Module Selector

P Bookmarks	1. Dashboard Developme	ent > Def	initions Stat	tistics		G+ Wednesday, July 6	5, 2011 11:03 AM -	- 3:03 PM 4 hour	5 1
There are no bookmarks Homes	📄 📑 Defini	ition	s Sta	tistics					
Dashboards	Statistics of f	the syste	m view's er	ntities with the n	number of all "Pa	ges" and "Reports"	on each individ	lual module ar	nd
Administration	other purpos	ses.							
Alarms Dashboard Development						Search		<i>p</i> -	-
Hosts Infrastructure		-			Purp	poses			
Management Server	Module Name 🔺	Pages	Reports	Dashboards	Home Pages	Global Actions	Only Pages	Total Views	
Reports Services	Total Counts	50	0	2	1	0	0		1
Configuration	Administration	49	0	1	1	0	0	52	
Module Selector	Agent Adapter	0	0	0	0	0	0	(	
Search 🔎 🗸	Cartridges	1	0	1	0	0	0	2	2
<ul> <li>Credentials</li> <li>Data</li> <li>Grouping</li> <li>Home</li> <li>Rules &amp; Notifications</li> <li>Schedules</li> <li>Setup &amp; Support</li> </ul>									
<ul> <li>Credentials</li> <li>Data</li> <li>Grouping</li> <li>Home</li> <li>Rules &amp; Notifications</li> <li>Schedules</li> <li>Setup &amp; Support</li> <li>Tooling</li> <li>Users &amp; Security</li> <li>Y Agent Adapter</li> </ul>									
Credentials  Data  Credentials  Rules & Notifications  Credentials  Nules & Notifications  Schedules  Schedules  Credentials  Valent Adapter  Alarms  Dashboard Development									
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Credentials  Cred									
Credentials  Data  Credentials  Credentials  Crouping  Rules & Notifications Credules  Credules  Credules  Cooling  Users & Security  Agent Adapter  Alarms  Alarms  Larms  Infrastructure  Infrastructure									

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.

5 To return to the Tools and Dashboard Support page, click **Dashboard Development** in the breadcrumb trail.

7

# 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 Tools and Dashboard Support page, click Persistence Storage Usage.

#### Figure 26. Persistence Storage Usage

. Da	shboard Development > Page persistence table	G+ Wednesday, July 6, 2	2011 7:33 AM - 11:33 AM 4 hours
i li	Persistence Storage Usage		
	Storage details of the WCF user and site persistence mechanisms. View and manage pa	ge-level persistence	blocks.
1	Delete	Search	<i>p</i> -
	Name	Size 👻	Last Modified
	states/system_wcf_tools_definitions20statistics.3.xml	447 B	7/6/11 10:36 AM
	states/system_wcf_tools_datasource20validation.4.xml	256 B	7/6/11 10:41 AM
	states/system_corems.46.xml	256 B	7/6/11 10:31 AM
	states/system_wcf_tools_storageReports.5.xml	177 B	7/6/11 10:56 AM
	$states/system\_administration\_setupsupport\_managelicenses.manageLicensesLayout.xml$	149 B	7/5/11 3:47 PM
	states/system_wcf_dashboard20development.dashboardDevelopmentView.xml	140 B	7/6/11 10:51 AM
<b>F</b>	states/system_administration_userssecurity.security.xml	132 B	7/5/11 4:37 PM
	states/system_administration_userssecurity.main.xml	132 B	7/5/11 4:32 PM
<b>F</b>	states/system_administration_setupsupport.82.xml	132 B	7/5/11 4:12 PM
	states/system_administration_setupsupport.16.xml	131 B	7/5/11 4:07 PM
	states/system_administration_data.3.xml	124 B	7/6/11 10:31 AM
	states/system_foglight_branding.21.xml	123 B	7/6/11 10:16 AM
	states/system_administration.164.xml	122 B	7/5/11 3:47 PM
	states/system_corems.44.xml	114 B	7/6/11 10:36 AM

**()** 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 Tools and Dashboard Support 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.

Figure 27. Confirm File(s) Delete dialog box

Confirm File(s) Delete	×
Are you sure you want to delete the selected file(s)?	
Delete Canc	el

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

### 8

# 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.

- 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, choose Configuration > User Preferences. For complete information about configuring user preferences, see the Foglight User Guide.
- 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 Tools and Dashboard Support page, click Module Validation. From there, start by selecting one or more modules or sub-modules in the Module Selector on the navigation panel.

### Figure 28. Module Validation

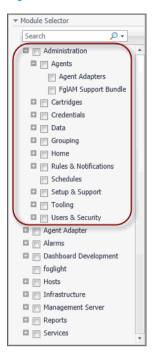
<ul> <li>Bookmarks</li> </ul>	T. Dashboard Developmen	nt > Module Validation		G+ We	dnesday, July 6, 2011 10:	40 AM - 2:40 PM 4 hours	s 🔻
There are no bookmarks		- ) ( - 1; -1 - 4;					
Homes y	🛛 🜆 Modul	e Validation					
r Dashboards 🛛 🔻	A Validation T	ool which invokes some validations and display	s the results	for each entity in the	module including Erro	ors and Warnings.	
Administration					Search	<b>P</b> -	
Alarms Dashboard Development						<b>y</b> •	
Hosts		Module 🔺 V	alidation	5	Total Messages		
Infrastructure Management Server	Administration		8	Errors 34	Warnings 82	Informations 0	
Reports Services	Agents		_	0	2	0	- 1
Configuration	-		8	0	0	0	_
Module Selector	Dashboard Developm	ent	$\bigcirc$	U	U	U	
Search 🔎 🗸							
	1						
Credentials							
<ul> <li>Credentials</li> <li>Data</li> </ul>	Validation Details for .	Administration Module					
	Validation Details for	Administration Module			Search	<i>₽</i> •	
Data C Grouping Home					Messages		4
<ul> <li>Data</li> <li>Grouping</li> </ul>	Validation Details for A	Entity Name		Errors	Messages Warnings	Informations	-
Data Grouping Home Rules & Notifications Schedules		Entity Name LicenseCapability		0	Messages Warnings 1	Informations 0	
Data Crouping Croupin		Entity Name LicenseCapability LicenseAvailability		0	Messages Warnings 1 1	Informations 0 0	-
<ul> <li>Data</li> <li>Grouping</li> <li>Home</li> <li>Rules &amp; Notifications</li> <li>Schedules</li> <li>Setup &amp; Support</li> <li>Tooling</li> </ul>	Entity Type 🔺	Entity Name LicenseCapability LicenseAvailability LicenseExpiry		0 0 0	Messages Warnings 1 1 1	Informations 0 0 0	-
<ul> <li>Data</li> <li>Grouping</li> <li>Home</li> <li>Rules &amp; Notifications</li> <li>Schedules</li> <li>Setup &amp; Support</li> </ul>		Entity Name LicenseCapability LicenseAvailability LicenseExpiry LicenseExpiry30		0 0 0	Messages Warnings 1 1 1 1 1	Informations 0 0 0 0	-
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<ul> <li>Data</li> <li>Grouping</li> <li>Home</li> <li>Rules &amp; Notifications</li> <li>Schedules</li> <li>Setup &amp; Support</li> <li>Tooling</li> <li>Users &amp; Security</li> <li>Agent Adapter</li> <li>Alarms</li> <li>Y Dashboard Development</li> </ul>	Entity Type 🔺	Entity Name LicenseCapability LicenseAvailability LicenseExpiry LicenseExpiry30 Currently Licensed Capabilities Text		0 0 0 0	Messages Warnings 1 1 1 1 1 1	Informations 0 0 0 0 0 0	-
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<ul> <li>Data</li> <li>Grouping</li> <li>Home</li> <li>Rules &amp; Notifications</li> <li>Schedules</li> <li>Setup &amp; Support</li> <li>Tooling</li> <li>Users &amp; Security</li> <li>Agent Adapter</li> <li>Alarms</li> <li>Y Dashboard Development</li> <li>foglight</li> </ul>	Entity Type 🔺 Renderer	Entity Name LicenseCapability LicenseAvailability LicenseExpiry LicenseExpiry30 Currently Licensed Capabilities Text Current Statistics Text License Information Text Current Licensed Capabilities Information Tax		0 0 0 0 0 0 0 0	Messages Warnings 1 1 1 1 1 1 1 1 1 1 1 1	Informations 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
<ul> <li>Data</li> <li>Grouping</li> <li>Home</li> <li>Rules &amp; Notifications</li> <li>Schedules</li> <li>Setup &amp; Support</li> <li>Tooling</li> <li>Users &amp; Security</li> <li>Agent Adapter</li> <li>Alarms</li> <li>Y Dashboard Development</li> <li>foglight</li> <li>Hosts</li> </ul>	Entity Type 🔺	Entity Name LicenseCapability LicenseAvailability LicenseExpiry LicenseExpiry30 Currently Licensed Capabilities Text Current Statistics Text License Information Text Current Licensed Capabilities Information Ta Currently Licensed Capabilities Information		0 0 0 0 0 0 0 0 0 0	Messages Warnings 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Informations 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
<ul> <li>Data</li> <li>Grouping</li> <li>Home</li> <li>Rules &amp; Notifications</li> <li>Schedules</li> <li>Schedules</li> <li>Setup &amp; Support</li> <li>Tooling</li> <li>Tooling</li> <li>Jagent Adapter</li> <li>Agarnt Adapter</li> <li>foglight</li> <li>Hosts</li> <li>Infrastructure</li> </ul>	Entity Type 🔺 Renderer	Entity Name LicenseCapability LicenseAvailability LicenseExpiry LicenseExpiry30 Currently Licensed Capabilities Text Current Statistics Text License Information Text Current Licensed Capabilities Information Ta Currently Licensed Capabilities Information Admin Operations Toolbar		0 0 0 0 0 0 0 0 0 0 12	Messages Warnings 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Informations 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

### To validate a module:

- 1 On the Tools and Dashboard Support 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.

#### Figure 29. Sub-modules in the Module Selector



- 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.

### Figure 30. Module Validation

Bookmarks	t. Dashboard Developme	nt > Module Validation		G+ W	ednesday, July 6, 2011 10:	:57 AM - 2:57 PM 4 hour	rs •
There are no bookmarks	Modul 📰	a Validation					
Homes	- 📲 wodu	e Validation					
Dashboards	A Validation 1	ool which invokes some validations and display	s the results	for each entity in the	e module including Erro	ors and Warnings.	
Administration							
Alarms Dashboard Development					Search	, <del>,</del>	-
Hosts		Module 🔺 V	alidation	E	Total Messages	Tefermeticae	
Infrastructure Management Server	Administration		8	Errors 34	Warnings 82	Informations	
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Search 🔎 🗸							
	4						
Administration	1						
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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.

Administration	Module 🔺			Search	<i>P</i> <del>+</del>
Administration	Module 🔺	Validation	Errors	Total Messages	Informations
		8	Errors 34	Warnings 82	Informations
Agents		ŏ	0	2	0
Dashboard Development		©	0	0	0
				Search	, <del>,</del> ,
					<i>₽</i> <del>•</del>
Entity Type 🔺	Entity Name		Errors	Search Messages Warnings	P → Informations
	Entity Name Agent Status - View		Errors 0	Messages	

Figure 31. Module Validation displaying information about a selected module

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.

### Figure 32. Error Messages



- d Use this information to improve module definitions as you develop.
- 6 To return to the Tools and Dashboard Support page, click **Dashboard Development** in the breadcrumb trail.

# 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 problems early on can prevent problems in the browser interface. If any errors are found on the 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 Tools and Dashboard Support page, click Data Source Validation.

### Figure 33. Data Source Validation

t. Dashboard I	Development > Datasource Validation Results	G+ Wednesday, July 6, 2011 8:51 AM -	12:51 PM 4 hour	rs 🔻		
🌆 D	ata Source Validation					
	eries of Data Source Validation Tests to check that a root exists, root type null.	has properties and at least one of the	e root properti	es is		
foglight-5	;	< Select a Data Source				
DataSource '	'Monitoring:foglight-5' - Validation result is: pass 🤣					
		Search	<i>p</i> -	8		
Name 🔺	Messages					
warning	Unit is not set on property Monitoring:ObservedValue:Agent ID			1		
warning	Unit is not set on property Monitoring:TopologyObject:Alarm Warning Count					
warning	Unit is not set on property Monitoring:TopologyObject:Alarm Critical Co	unt				
warning	Unit is not set on property Monitoring:TopologyObject:Alarm Fatal Count					
warning	Unit is not set on property Monitoring:TopologyObject:Alarm Total Cour	ıt				
warning	Unit is not set on property Monitoring:TopologyObject:Alarm Aggregate Warning Count					
warning	Unit is not set on property Monitoring:TopologyObject:Alarm Aggregate Critical Count					
	Unit is not set on property Monitoring:TopologyObject:Alarm Aggregate Fatal Count					
warning	Unit is not set on property Monitoring:TopologyObject:Alarm Aggregate	Fatal Count				

### To validate a data source:

- 1 On the Tools and Dashboard Support 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.

4 To return to the Tools and Dashboard Support page, click **Dashboard Development** in the breadcrumb trail.

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- View Knowledge Base articles
- Obtain product notifications
- Download software. For trial software, go to Trial Downloads.
- View how-to videos
- Engage in community discussions
- · Chat with a support engineer