

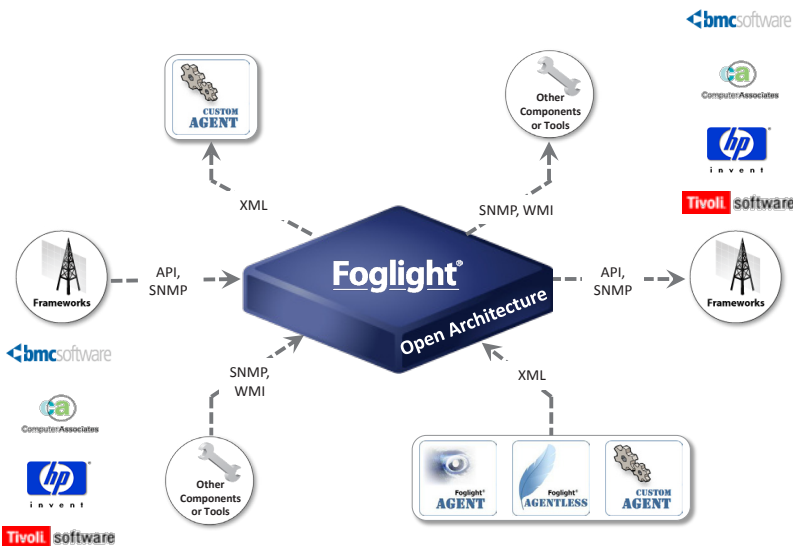
Foglight®

Extensibility and Integration

Third-Party Integrations with Foglight

At the heart of Foglight is an adaptable architecture that enables comprehensive application performance monitoring (APM) at a significantly decreased time-to-value. Foglight's architecture is based on the vision that virtualization, service-oriented architecture (SOA) and similar architectures that decoupled the application from a dedicated physical server would become the norm.

The key innovation as a result of this vision is an open topology model that captures the monitored application architecture while decoupling it from the underlying collection mechanisms. The topology model is the focal point around which Foglight organizes and correlates data. Users can take any data, from any source, and use the full capabilities of Foglight with it or represent it in any customized way. This unparalleled extensibility allows streamlined integration with any third-party monitoring source.



Foglight's open architecture allows you to leverage the value of existing monitoring investments

Information Integration (Data Collection) Layer

Foglight is built on SOA concepts, enabling it to operate in a loosely coupled and standards-based fashion. Its interfaces are published, allowing your IT staff or our Professional Services Organization to fit the system to your specific application management needs.

As data is collected, models in Foglight's open architecture are built as incoming data is transformed into a collection-independent form. This "decoupling" between the physical environment and the topology models layer insulates Foglight from constant configuration changes.

Most other end-to-end management tools build their dashboards, threshold alerting and other rules directly on the physical environment, resulting in a lot of scripting and rule review. Plus, rewriting occurs whenever the actual environment's configuration changes.

Foglight EXTENSIBILITY BENEFITS

- Create savings by avoiding a "rip and replace" operation
- Avoids the fruitless search for a "one size fits all solution"
- Layering new technology over old reduces training costs and fills gaps in coverage
- Leverage your existing monitoring system to provide better monitoring now and an upgrade path for the future.
- Spread upgrade costs over several budget cycles, since both legacy systems and new monitoring software work together



SYSTEM REQUIREMENTS

Foglight Leverages Multiple Data Sources

Foglight implements the data collection method most appropriate for the data source and purpose. Organizations can use many different sources to collect this information including:

- Foglight agents and custom agents
- Agent-less collection
- Third-party sources
- Monitoring tools like Tivoli TEC or HP OVO
- Specialized domain monitoring tools
- APIs, SNMP, WMI, Scripts, etc.

Integrating Third-Party Alarms

Foglight can receive/send alarms from/to third-party systems via rule-driven scripts or SNMP traps.

Receiving SNMP Traps

Foglight can receive SNMP traps from other devices or systems. The traps are loaded into the appropriate MIB to ensure proper translation of object IDs. Once the traps have been decoded they live in Foglight as regular alarms. MIB's can be selectively enabled to ensure only desired traps will be displayed.

Sending SNMP Traps

Foglight can send alarms as SNMP traps to a third-party system that is acting as an SNMP trap receiver. Alarm rules are triggered within Foglight that invoke a script that can be used to load the Foglight MIB and invoke a trap that can be received by a third-party SNMP trap receiver.

Forwarding Foglight Alarms

Foglight exposes its alarm data via XML which can be forwarded into another third-party system. Rule-driven actions can be created through a Foglight GUI to trigger the send operation when a specific alarm occurs. The rule is associated with a script that parses the XML into the appropriate form and invokes a third-party tool API to complete the transmission. Sample alarm integration scripts are provided with Foglight for many of the most common third-party monitoring tools. It can be modified to the specific requirements needed to forward the alarm to any third-party system.

Receiving Third-Party Alarms

Alarms exposed from third-party systems are fed into Foglight via XML data. Transformers are provided with Foglight to handle the data appropriately. These alarms then live in Foglight and can be used with its advanced dashboards. Foglight organizes the data according to the provided monitored object, so it will be displayed in relationship to the appropriate objects, such as Hosts.

Receiving Acknowledge and Clear Commands

Quest supports XML inputs that can be used to acknowledge or clear alarms existing in Foglight.

Clearing and Acknowledging Foglight Alarms

Foglight can receive, clear and acknowledge actions on existing alarms. This capability allows for two-way integration in which Foglight and a third-party system can raise, clear and acknowledge alarms between one another.

Integrating Custom Agents

Foglight has an open API for integrating data through scripts and can create a custom agents based on these scripts. The agents are managed just like any other agents. It is easy to integrate third-party data into Foglight by scripting data collections and specifying the naming conventions by which Foglight stores the results.

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