

SOFTWARE

INFINERA SNMP FAULT INTEGRATION SERVER

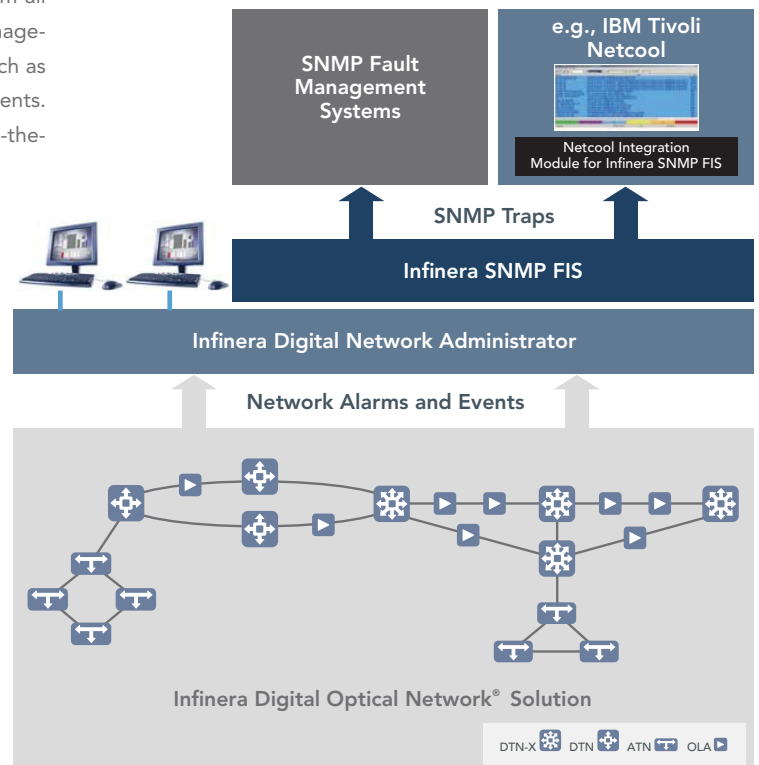
The Infinera SNMP FIS provides an up-to-the-minute view of network health, giving you the timely information you need to quickly issue trouble tickets and dispatch service personnel.

The **Infinera SNMP Fault Integration Server (FIS)** enables the integration of real-time asynchronous network alarms and events to northbound SNMP trap interface and fault network management applications. It improves operational efficiency and streamlines service assurance. The Infinera SNMP FIS can interwork with up to five concurrently registered SNMP managers, keeping pace with network growth and efficiency.

The SNMP trap stream supports alarm and clearable threshold-crossing events, which are aggregated by the Infinera Digital Network Administrator (DNA) Element Management System (EMS) from all subtending Infinera network elements within its defined management domain. It also includes traps for event notifications, such as those associated with audit log, security and administrative events. Network alarms and events are synchronized to ensure up-to-the-minute network health.

Service Architecture and Administration

The Infinera SNMP FIS is co-located and performed as a mediation layer on top of the Infinera DNA EMS. The Infinera DNA EMS provides a GUI-based functional manager called the SNMP Manager that supports the registration of the SNMP traps that any external SNMP Managers are expected to receive. The Infinera SNMP FIS forwards the traps to the external SNMP managers accordingly. Up to five active SNMP managers are allowed.





Supported External SNMP Managers

The Infinera SNMP FIS has been tested with IBM Tivoli Netcool™ under the Tivoli Netcool Technology Program. It has also been tested with HP OpenView™ NNM Release B.07.53. Other third-party SNMP Managers can leverage the Infinera

SNMP FIS to establish integration for fault network management applications.

Infinera SNMP FIS Features

Trap Generation: A trap message is a format that reports a fault condition on any of the network elements managed by the Infinera DNA. Infinera SNMP traps include alarms, TCA notifications and event notifications that are raised or cleared on the Infinera network elements.

Alarms: Hardware and software failure alarms indicate a failure condition. Alarms are assigned levels of severity, including critical, major, minor, and warning, depending on the degree of service degradation or disruption.

TCAs: Threshold-crossing events are reported as Clearable and Non-Clearable events in the Infinera DNA.

Events: Events include administrative events that indicate the changed state of a managed object triggered by the user action and/or changes in the operation capability of the managed object, audit events that reflect all user actions that change attribute value(s) of a managed object; and security events related to the system's security.

Robust Trap Handling: All traps are assigned Session Sequence IDs to help in identifying any out-of- sequence or lost traps. Traps are preserved and outstanding traps can be resent to the registered SNMP managers.

SNMP Version: Infinera SNMP FIS follows the SNMPv2c protocol per IETF RFC 3416, 3417, and 3418 specifications, supporting the SNMPv2Trap PDU type, which is an unsolicited notification from an agent to an SNMP manager.

Interworking Requirements

The Infinera SNMP FIS must be installed on the same Infinera DNA server with a matching system release. For example, Release 8.0 of the Infinera DNA must be present with Release 8.0 of the SNMP FIS.

For the IBM Tivoli Netcool fault management integration solution, a matching Netcool Integration Module for Infinera SNMP Fault Integration Server, available from IBM Tivoli, must be installed on the Tivoli Netcool server. For example, Release 8.0 of the Netcool Integration Module for Infinera SNMP Fault Integration Server must be installed on the IBM Tivoli Netcool to work with Release 8.0 of the Infinera SNMP FIS.

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