Configuration and Performance Metrics for Network Devices

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Below is the list of the OIDs used to collect configuration data and performance metrics related to Network Device elements in Uptime Infrastructure Monitor.

Configuration OIDs

These configuration information OIDs are collected when the Network Device is added to Uptime Infrastructure Monitor and updated regularly by the Configuration Update Gatherer which rescans every 24 hours.

OID	MIB	Name	Mandatory
1.3.6.1.2.1.1.5.0	RFC1213-MIB	System Name	Yes
1.3.6.1.2.1.1.1.0	RFC1213-MIB	System Description	Yes
1.3.6.1.2.1.1.4.0	RFC1213-MIB	System Contact	No
1.3.6.1.2.1.1.6.0	RFC1213-MIB	System Location	No
1.3.6.1.2.1.31.1.1	IF-MIB	Interface Table	Yes
1.3.6.1.2.1.2.2.1.1	RFC1213-MIB	Port Index	Yes
1.3.6.1.2.1.31.1.1.1.1	IF-MIB	Port Name	Yes - If unavailable, 1.3.6.1.2.1.2.2.1.1 (RFC1213-MIB) will be used instead
1.3.6.1.2.1.2.2.1.2	RFC1213-MIB	Port Description	No
1.3.6.1.2.1.2.2.1.3	RFC1213-MIB	Port Type	Yes
1.3.6.1.2.1.2.2.1.7	RFC1213-MIB	Port Admin Status	Yes
1.3.6.1.2.1.2.2.1.8	RFC1213-MIB	Port Operational Status	Yes
1.3.6.1.2.1.2.2.1.5	RFC1213-MIB	Port Speed	Yes
1.3.6.1.2.1.2.2.1.6	RFC1213-MIB	Port MAC	Yes

Performance Metric OIDs

Performance metrics are only collected for Network Devices that are switches or routers added in Uptime Infrastructure Monitor. Metrics will be gathered for ports that have "Port Admin Status" as up and have a valid speed value available.

OID	MIB	Name	Units	Notes
1.3.6.1.2.1.31.1.1.1.6	IF-MIB	In Rate	Kbps	If unavailable, 1.3.6.1.2.1.2.2.1.10 (RFC1213-MIB) will be used instead
		In Usage	Percent	Calculated by dividing In Rate by interface speed.
1.3.6.1.2.1.31.1.1.1.10	IF-MIB	Out Rate	Kbps	If unavailable, 1.3.6.1.2.1.2.2.1.16 (RFC1213-MIB) will be used instead
		Out Usage	Percent	Calculated by dividing Out Rate by interface speed.
		Usage	Percent	Calculated by adding In Usage and Out Usage together.
1.3.6.1.2.1.2.2.1.14	RFC1213-MIB	In Errors	#/sec	
1.3.6.1.2.1.2.2.1.20	RFC1213-MIB	Out Errors	#/sec	
		Errors	#/sec	Calculated by adding In Errors and Out Errors together.
1.3.6.1.2.1.2.2.1.13	RFC1213-MIB	In Discards	#/sec	
1.3.6.1.2.1.2.2.1.19	RFC1213-MIB	Out Discards	#/sec	

		Discards	#/sec	Calculated by adding In Discards and Out Discards together.

Troubleshooting with snmpwalk

Although most SNMP enabled network devices provide the OID's listed above, not all do. If there are issues adding a network device to Uptime Infrastructure Monitor, it is helpful to use snmpwalk to review the OIDs available on the device. The article "Troubleshooting Network Device Issues with snmpwalk" explains how to do this.