

SyAM Software™

SyAM Software Tool Tip: Integration into IBM Director

Overview:

This document provides an overview on integration of SyAM Server/Desktop/Notebook Monitor with IBM Director, combining Director's remote management capabilities with SyAM's real-time monitoring and proactive alerting of your systems and storage resources.

Requirements:

1. IBM Director v4.20 or later
2. SNMP services installed and the community name configured on the managed systems that will be sending SNMP traps to the IBM Director server.
3. Syam.mib file (located in the SyAM\system_monitor folder created after Server or Desktop Monitor has been installed)

Benefits:

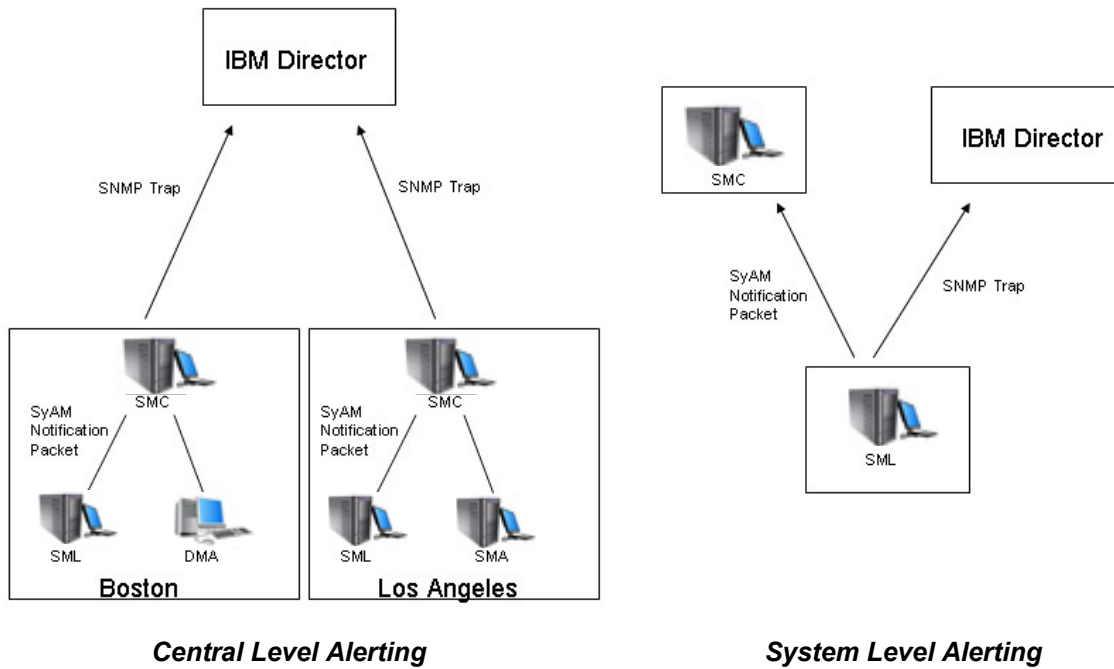
System Level Alerting- *Ability to view the status of all monitored components at a system level*

Physical Sensors (Fans, Voltages, Temperature) Logical Sensors (Network Adapters, Physical Disks, Logical Disks, Managed RAID Controllers, CPU Utilization, Memory Utilization)

Central Level Alerting- *Ability to configure event notifications for all systems managed by the central server.*

Platform Event Traps, Hardware Events, Storage Events, Performance Utilization Events, Asset Monitoring Events

SNMP traps containing notification events are sent to the IBM Director station, once the administrator is alerted upon a system issue, they have the ability to browse to the SyAM user interface to take the necessary actions.



Configure Alert Notifications From SyAM Server Monitor to be Sent to IBM Director

- 1.) To setup your Central and/or System Alert Matrix to send SNMP Traps to IBM Director, log in to your system running the Central or Local Manager and then select a system (if Central).
- 2.) After you have selected the system, open the System Alert Matrix. To configure SNMP traps, simply check the SNMP Trap box for the sensor or sensor group to be alerted upon using SNMP traps.

Physical Sensors	Lower Threshold			Upper Threshold			Warning Alerts						Critical Alerts						
	Description	Critical	Warning	Current	Warning	Critical	No Alerts	Email	SMS /Pager	SMC	Network Message	SNMP Trap	System Event Log	Email	SMS /Pager	SMC	Network Message	SNMP Trap	System Event Log
Physical Security		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>						
Fans (RPM)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Temperature (°C)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Voltages (v)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Unit		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- 3.) In the Notifications section of the System Alerts Matrix enter the IP address of the IBM Director in the SNMP trap field shown below and click apply to save the changes. Clicking on the Test Notifications button to verify SNMP traps are being sent to the IBM Director system.

Notification Settings		Example
Email Address	<input type="text" value="admin@company.com"/>	admin@company.com
SMS/Pager Address	<input type="text"/>	
Network Message Machine Name	<input type="text" value="192.168.1.1"/>	192.168.1.1
SMC System	<input type="text" value="192.168.100.68"/>	192.168.1.1
Username	<input type="text" value="admin"/>	Username
Sender's Email Address	<input type="text" value="admin_local@xyzcompany.com"/>	Local.Admin@company.com
Sender's Email Password	<input type="password" value="*****"/>	
Mail Server	<input type="text" value="192.168.200.56"/>	smtp.company.com
SNMP Trap Receiver	<input type="text" value="snmp.ibm-director.com"/>	snmp.company.com

Note: (SNMP trap event reporting can also be configured on the Central Alert Matrix as well as the System Alert Matrix)

Event Category	Email #1	SMS/Pager #1	Email #2	SMS/Pager #2	SNMP Trap
Platform Event Traps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Hardware Events	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Network Events	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Storage Events	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Performance Utilization Events	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Asset Monitoring Events	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
System Absent	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

		Example
Email Address #1 for Alerts	<input type="text" value="admin@company.com"/>	admin@company.com
SMS/Pager Address #1 for Alerts	<input type="text"/>	
Email Address #2 for Alerts	<input type="text" value="admin2@company.com"/>	admin2@company.com
SMS/Pager Address #2 for Alerts	<input type="text"/>	
Username	<input type="text" value="admin1234"/>	Username
Sender's Email Address	<input type="text" value="Central.Admin@company.com"/>	Central.Admin@company.com
Sender's Email Password	<input type="password"/>	
Mail Server	<input type="text" value="smtp.company.com"/>	smtp.company.com
SNMP Trap Receiver	<input type="text" value="snmp.company.com"/>	

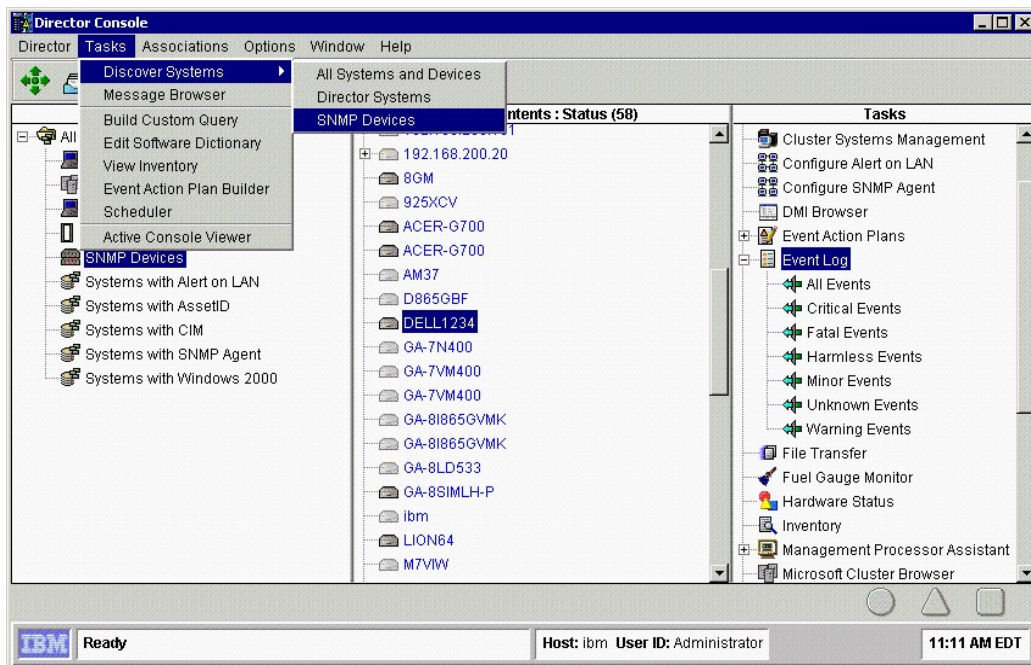
Installation

Install IBM Director Server or Console. After the installation has completed launch IBM Director Management Console.

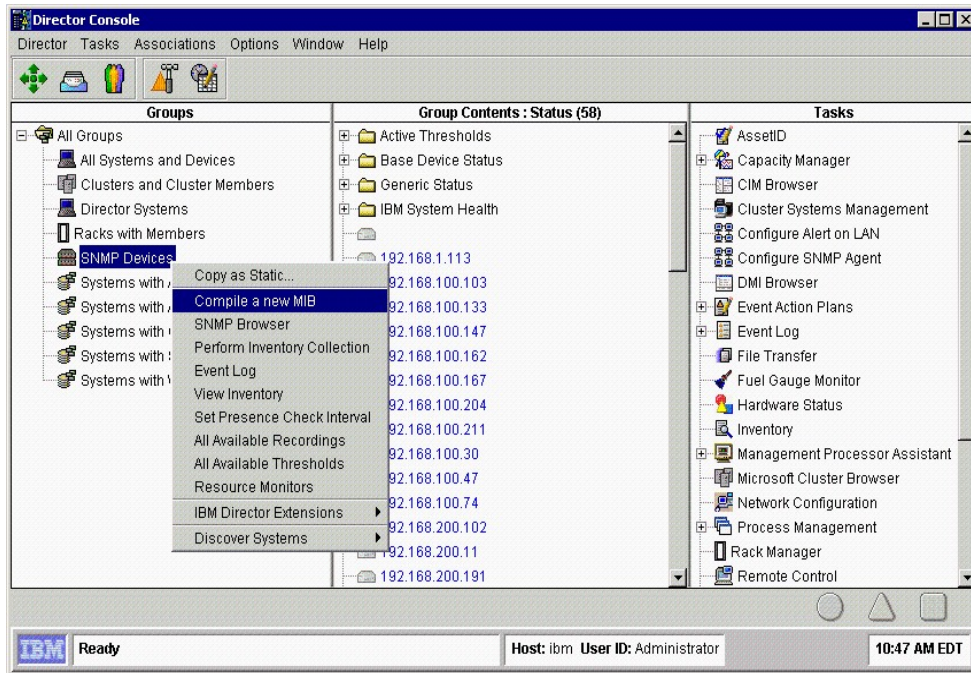
- 1.) Login in to IBM Director. The User name and password is a user account on the local system that has administrator rights.



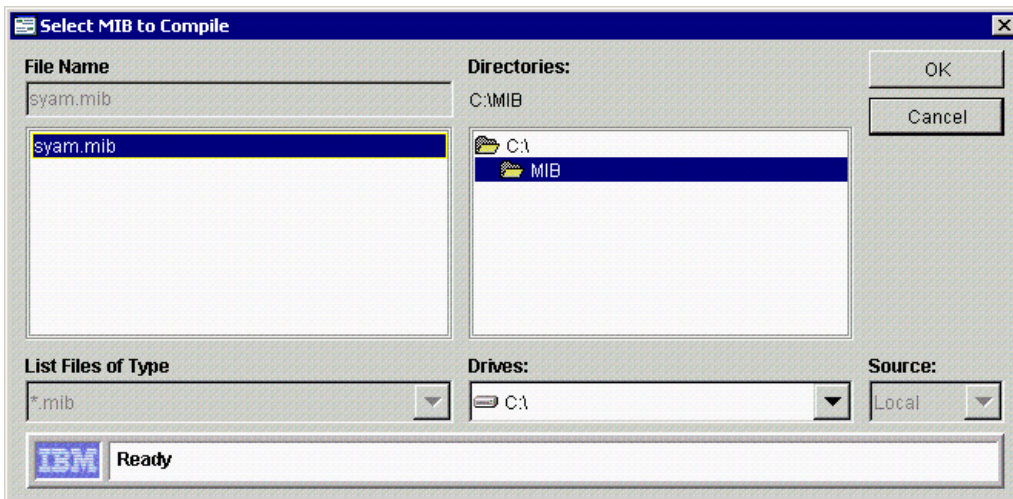
- 2.) After the login screen you will find your self at the console browser. From the Task menu, select Discover Systems – SNMP Devices



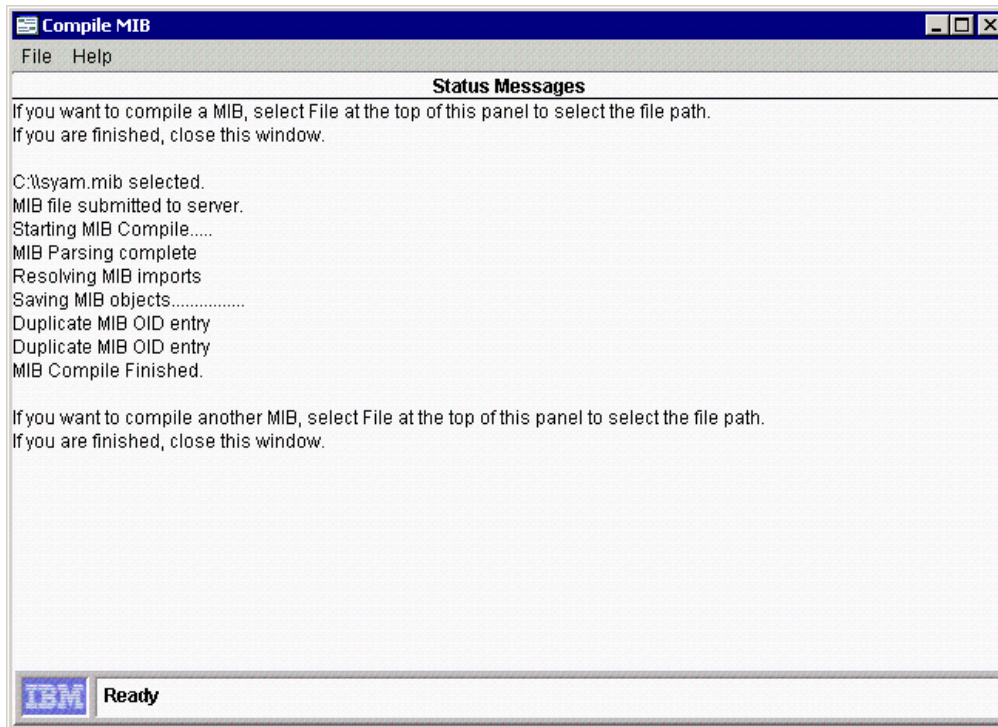
3.) To load the SyAM MIB file right click SNMP Devices under the Groups column and then select Compile a new MIB.



4.) Browse to the location of the MIB file to compile.

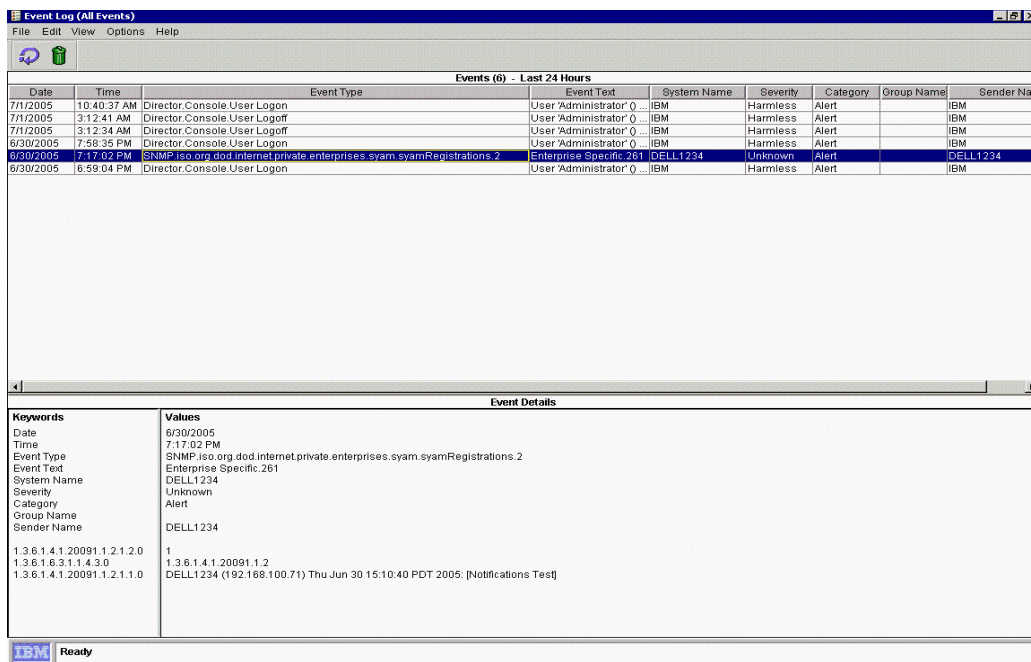
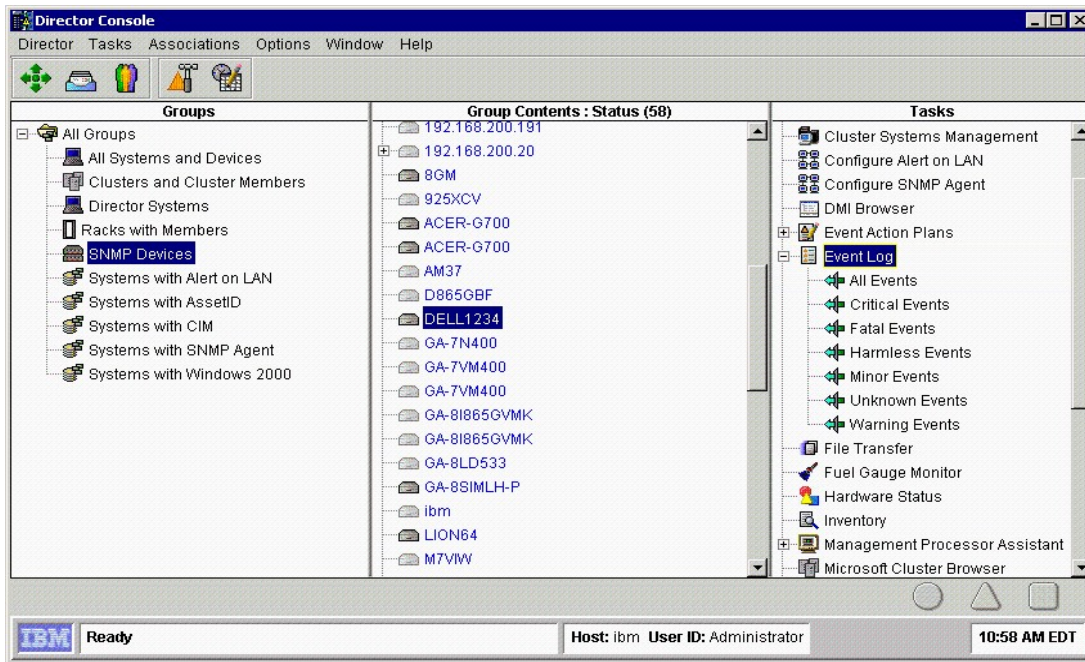


5.) A Status Messages window will display the results of the compile.



6.) To view SNMP trap messages for all managed systems, select the Event Log from the Tasks Column, double click it to expand and double click on All Events. The event log browser will open showing the events for the last 24 hours.

7.) To view SNMP trap messages on an individual system, right click on a system from the Group Contents column and select Event Log.



				Event Details
3/2/2005	2:02:15 PM	Director Topology Offline		System 'ACER-G700' i...
3/2/2005	1:40:33 PM	SNMP.iso.org.dod.internet.private.enterprises.syam.syamRegistrations.2		Enterprise Specific.261
3/2/2005	1:38:51 PM	Director Console User Logon		User 'Administrator' @ ...
Keywords		Values		
Date		3/2/2005		
Time		1:40:33 PM		
Event Type		SNMP.iso.org.dod.internet.private.enterprises.syam.syamRegistrations.2		
Event Text		Enterprise Specific.261		
System Name		SE7501BR2		
Severity		Unknown		
Category		Alert		
Group Name				
Sender Name		SE7501BR2		
1.3.6.1.4.1.20091.1.2.1.2.0		1		
1.3.6.1.6.3.1.1.4.3.0		1.3.6.1.4.1.20091.1.2		
1.3.6.1.4.1.20091.1.2.1.1.0		SE7501BR2 (192.168.100.142) Wed Mar 02 12:37:34 EST 2005: [Notifications Test]		

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