

IBM Software Group

IBM Tivoli Training IBM Tivoli Monitoring 6.1

Synchronizing IBM Tivoli Monitoring 6.1 and Tivoli Enterprise Console





Objectives

- Upon completion of this module, you will be able to:
 - Describe event synchronization with Tivoli Enterprise Console.
 - Install support for Tivoli Enterprise Console integration.
 - Configure IBM Tivoli Monitoring 6.1 for event synchronization.





Architecture and Event Flow

(2) Forward native ITM 6.1 situation events to TEC(3) Forward updates on native ITM 6.1 situation events to TEC





Installation Overview

TEC Integration consists of two parts:

- 1. TEMS Server:
 - TEMS portion already part of the product ITM 6.1
 - OMEGAMON TEC Event Adapter (OTEA)
 - Must be configured
- 2. TEC Server:
 - TEC portion (ITM and TEC Event Synchronization) installed separately on each target TEC
 - New baroc and rule files
 - omegamon.rls (synchronization specific rules between ITM 6.1 and TEC)
 - omegamon.baroc (new ITM 6.1 events)
 - sentry.baroc (updated version to assure DM migration)
 - Configuration





Installation–ITM and TEC Event Synchronization

- ITM and TEC Event Synchronization: platform dependent
 - Windows: TEC\setupwin32.exe (InstallShield)
 - UNIX: setup<os>.bin (where os is AIX or Sun), winstall or Tivoli Desktop
- Installation needs information about
 - > TEMS servers and SOAP URL including TEMS user ID and password
 - Multiple TEMS servers specified
 - Sleep interval and transfer rate
- TEC rule base to be updated with the new baroc and rules files
 - Update of current **rulebase**
 - Creation of a new rulebase with or without copy
- SituationUpdateForwarder (SUF): Web services based tool will be installed
 - Triggered by rules
 - Logs: \$DBDIR/logs/synch/synch_trace.log and synch_msg.log
- TEC server stopped and restarted during installation



Configuration–Forwarding Events from ITM 6.1 to TEC: OMEGAMON TEC Event Adapter (OTEA)

 OTEA enabled with Manage Tivoli Enterprise Services and Reconfigure context menu option of the TEMS

Tivoli Enterprise Monitoring Server Configuration				
TEMS Type Tub Remote	Configuration Audit Security: Validate Use Address Translation	er Disable won Emitter Agen	ntegration Facility Kriow Policy/Tivoli t Event Forwarding	>
TEMS HUB_TEM	чS			
Protocol for this TEMS -		Configure Hot S	tandby TEMS	
Protocol 1:	P.PIPE	Protocol 1:		
Protocol 2:		Protocol 2:		_
Protocol 3:		Protocol 3:		
			ОК	Cancel

- TEC server and port to be specified (only non-TME based transport mechanism)
- Forward policy based on all or nothing
- Filtering only using known EIF filter statements



Configuration–Forwarding Events from ITM 6.1 to TEC: OTEA, continued

- The location of the EIF adapter files is:
 - On Windows: <itm_installdir>\tems\TECLIB
 - On UNIX: <itm_installdir>/tables/<ms-name>/TECLIB
- The default EIF files are:
 - om_tec.config_EIF configuration file
 - tecserver.txt-TEC server mapping file (for non-default event severity mapping)
- For configuration file changes there are also context menus for the TEMS server in Manage Tivoli Enterprise Services.
 - Advanced option opens the default system editor
- After changes the TEMS server must be restarted.

ServerLocation=my_tec_host ServerPort=5529 NO_UTF8_CONVERSION=YES ConnectionMode=connection_oriented BufferEvents=YES BufEvtMaxSize=4096 BufEvtPath=./TECLIB/om_tec.cache FilterMode=OUT Filter:Class=ITM_Generic ;



Configuration–Forwarding Events from ITM 6.1 to TEC: Situation-to-TEC mapping

- Standard ITM 6.1 situations are mapped to event class ITM_Generic.
- DM migrated situations are mapped to the former Sentry2_0_Base event class.
- Default severity mapping:

ITM 6.1 Severity	Informational	Warning	Critical
TEC severity	Harmless	Warning	Critical

- Other TEC severities can be specified by means of the TEC server mapping file.
- Clearing events for ITM 6.1 sampled situation events are always sent with severity WARNING.





Configuration–Forwarding Events from ITM 6.1 to TEC: TEC Server mapping

- Change default situation-to-event mapping behavior
- Map situations with different severities to different TEC servers
- Assure parity with DM monitors
 - Allowed multiple (more than 3) response levels with different TEC severities assignments and different TEC targets
- Filename: tecserver.txt
- Syntax: sitname=tecservername[:port]|*[,SEVERITY=severitylevel]
- Examples
 - sit1=tecserver2,SEVERITY=CRITICAL
 - CRITICAL events sent to TEC server tecserver2 when sit1 is raised
 - sit2=*,SEVERITY=MINOR
 - MINOR events sent to default TEC server (*) when sit2 is raised
- Supports only default severities defined in root.baroc

9



SituationUpdateForwarder (SUF)

- Java background process for communication with ITM 6.1 TEMS
- Installation directory for SituationUpdateForwarder (SUF) tool
 - Windows: <u>%BINDIR%\TME\TEC\OM_TEC</u>
 - UNIX: <u>\$BINDIR/TME/TEC/OM_TEC</u>
- Default configuration directories of SituationUpdateForwarder tool
 - Windows: c:\Program Files\TME\TEC\OM_TEC\etc
 - UNIX: \$BINDIR/TME/TEC/OM_TEC
- Key configuration files
 - situpdate.conf-configuration of event synchronization
 - situser.conf
 –user ID and password for Web services interactions (encrypted)
- Should not be edited manually
 - Scripts provided by the SUF tool
- Restart SituationUpdateForwarder program after configuration parameter changed





SituationUpdateForwarder Configuration Commands

sitconfig.sh

- Configure event synchronization process
 - Configuration file name (default is situpdate.conf)
 - Directory location of event cache files
 - Polling interval for updates (default is 3 seconds)
- Run command after manual update of configuration
- TEC server gets latest configuration information
- Example:

sitconfig.sh update fileName=situpdate.conf logLevel=med

sitconfsvruser.sh

- Configure user ID and password for Web services interactions
 - Stored in an encrypted file
- Example:

sitconfsvruser.sh add server=itm17.ibm.com userid=admin password=acc3ssing





SituationUpdateForwarder Control Commands

start, stop, test ,query

- Located in: \$BINDIR/TME/TEC/OM_TEC/bin
- test-test the connection to the TEMS server and verify the configuration
- **query**-state of the program
- To start and stop the process:
 - Windows:
 - startSUF.cmd or net start situpdate
 - stopSUF.cmd or net stop situpdate
 - **UNIX:**
 - startSUF.sh
 - stopSUF.sh





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