

In this training module, you learn how to install a situation update forwarder on IBM Tivoli[®] Monitoring and Tivoli Netcool[®]/OMNIbus. You also learn how to send Tivoli Monitoring events to Tivoli Netcool/OMNIbus, resynchronize them with Tivoli Monitoring, and troubleshoot the situation update forwarder.

	IBM
Situation update forwarder installation	
 Installation guide for the situation update forwarder (SUF) 	
http://publib.boulder.ibm.com/infocenter/tivihelp/v15r1/index.jsp?topic=/com.ibm.itm.doc/itm_install313.htm	<u>n</u>
 PassPort Advantage part number C167UEN.tar Has IBM Tivoli Monitoring V6.2.0 Tools Includes agentbuilder dm_upgrade itm5_upgrade tec 	
 Steps to install on AIX[®] – cd tec – Run ESync2000AIX.bin – Run /opt/IBM/SitForwarder 	
 Installations for other operating systems are in the /TEC folder 	
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A comprehensive installation guide for the situation update forwarder is available at the website shown on the slide.

You can use the PassPort Advantage part number shown on the slide to obtain a 3 GB download that contains IBM Tivoli Monitoring V6.2.0 Tools. It includes all the operating systems for the situation update forwarder. You can download it one time and FTP the parts you need for the required operating systems.

In this example, you go to the directory where you extracted the EventSync product and run ESync2000AIX.bin to install the product on AIX. Then, you run /opt/IBM/SitForwarder. The installations for the other operating systems contained in this download are in the /TEC folder.



Use the installation wizard to install the event synchronization component. Click the **Install from a wizard** link.



Click Next.



Accept the license agreement.

Installation of IBM 1	livoli Monitoring an	nd Tivoli Event Synchronization	
1	Click Next to instal this directory, or c	II "IBM Tivoli Monitoring and Tivoli Event Synch lick Browse to install to a different directory.	ronization" to
in the	Directory Name:		
X	/opt/IBM/SitForwa	arder	
19811184			Browse
Tivoli. software			
	▶		

Install the situation update forwarder in the /opt/IBM path to create a SitForwarder directory in that location.

	TEM
itupdate.conf	
$\mathbf X$ Installation of IBM Tiv	voli Monitoring and Tivoli Event Synchronization
- en	Name of configuration file situpdate.conf
ALL THE	Number of seconds to sleep when no new situation updates
Tiusli coffuero	Number of bytes to use to save last event 50
TIVOIL SUITWAIE	URL of the TEMS SOAP server cms/soap
	Rate for sending SOAP requests to TEMS from Event Sync via Web Services 10 Level of debug detail for log
	low 7
instailsnield -	Verbose
Installation of a situal	ion update forwarder © 2010 IBM Corporation

From this page of the wizard, you generate the situpdate.conf file. Set the Level of debug detail for log to **verbose** and click **Next**.

		IBM
Persistence directo	ry	
Installation of IBM Ti	voli Monitoring and Tivoli Event Synchronization	
100	Maximum size of any single cache file, in bytes 50000	
111- 10	Maximum number of cache files	
12 19 19 19 19	Directory for cache files to reside /opt/IBM/SitForwarder/persistence	
Tivoli. software	k	Browse
InstallShield	< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel
Installation of a situa	ion update forwarder	© 2010 IBM Corporation

On this page of the wizard, you set up your persistence directory for debugging.



In this example, the directory log level has been preset to verbose. Set your file location for the situpdate.conf file to **/opt/IBM/SitForwarder/persistence**. Set the polling interval to 3. Set the crcBytecount to 50 and the cms soap URL to cms. Set the buffer flush rate to 10.

		IBN
Tivoli Enterprise	Monitoring host name, use	r ID, and password
X Installation of IBM	Tivoli Monitoring and Tivoli Event Synchro	nization
- en	Tivoli Enterprise Monitoring server Informa Host name	tion User ID Edit
All Sec		Remove
Tivoli. software		
	Host name User ID Pas	ssword Confirmation
InstallShield	Add	9
	< <u>B</u> ack	<u>N</u> ext > <u>C</u> ancel
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You use this page of the wizard to create the Tivoli Enterprise Monitoring server location. You also enter the host name of the Tivoli Monitoring server and the user ID. Set and confirm your password here. The file is automatically encrypted after you enter the necessary information.

situser.conf file	_
serverid=sles10.tivlab.austin.ibm.com	
userid=root	
passwordfile="/opt/IBM/Netcool/omnibus/SitForwarder/etc/sles10.tivlab.austin.ibm.com.pwd	
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This is an example of the situser.conf file. The server ID is for the Tivoli Enterprise Monitoring server. The user ID in this case is root, and the encrypted file is in the situser.conf file in the SitForwarder/etc path.

Piea	ise read the summary information below.
IRM	
foll	Tivoli Monitoring and Tivoli Event Synchronization will be installed in the
u. To	/opt/IBM/SitForwarder
S. Ast	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
for	a total size:
	128.7 MB
ivoli, software	
tallShield -	
anomeru -	

Confirm the installation parameters and click Next.

Finishing the insta	Illation	i Event Synchroni	zation	
	Please read the summary	information below.		
Tivoli software	The InstallShield Wizard H Tivoli Event Synchronizati	ias successfully inst	talled IBM Tivoli Monitoring an o exit the wizard.	d
InstallShield	[< <u>B</u> ack	Next >	h
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Click Finish.

oce	ss automation setup
Co	nfiguring the OMNIbus server for program execution from scripts
to t pro ON	run the event synchronization program from SQL automation scripts for sending synchronization events he monitoring server, the OMNIbus event server must be running under process control and the perties PA.Username and PA.Password must be set in <i>OMNIHOME</i> /etc/NCOMS.props file, where <i>INIHOME</i> is the system-defined variable defining the installation location of OMNIbus.
For ncc PA def the	Linux and UNIX: By default, the process control grants access to the members of the default group badmin . For default configuration, create a ncoadmin group, and add root as a user to this group. The Username property must be set to the username for connecting to the process control agent. The ault value is root. The PA.Password property must be set to the password for the user connecting to process control agent. For the default setting, specify the password of the root user.
For	Windows: The PA.Username property must be set to a Windows account name, and the .Password property must be set to the password for that account.
Retand	er to OMNIbus documentation for more information on configuring OMNIbus server under process contro for information on the nco_pa_crypt utility that encrypts the PA.Password property value.
Afte	er you change the PA.Username and PA.Password properties in the OMNIHOME/etc/NCOMS.props perform the procedure below to restart the OMNIbus Object Server:

On this page, you learn how to set up automation scripts to start and stop the OMNIbus server.



When you institute triggers in OMNIbus with SQL and IBM Tivoli Monitoring update triggers, those triggers are logged in the NCO_PA log.



Update the OMNIbus SQL command database. You must install the situation update forwarder to obtain these command scripts. To update the database without running the situation update forwarder, omit the **ITM_sync.SQL** command. The commands shown here are for the Windows[®] operating system.



These commands are for UNIX[®] platforms. Running these scripts overwrites any custom commands that you wrote. If you wrote custom commands, copy those commands to ensure that they are not overwritten.



This error message is displayed if you run commands more than once.



The OMNIbus Object Server might be running as non-root user, and the event synchronization component might be installed as either root or another user. Verify that the Object Server has write permissions to the event_sync_install directory before updating the OMNIbus database schema. To avoid errors and missed event flow, run the installation as the same user and with the same permissions as the OMNIbus server.



Configure the EIF probe. The EIF probe defaults to port 9999. The EIF probe is located in the Tivoli EIF rules file within the situation update forwarder.



If you are running a Tivoli Business Service Manager EIF rule event, Tivoli Business Service Monitor supplies the rules that you require. The tivoli_eif.rules are present, as are post z MSG rules and the Tivoli Monitoring update scripts.

		IBM
tivoli_eif.pr	rops	
Inactivity	: 0	
Server	: "NCOMS"	
Manager	: "Omnibus"	
Buffering	: 0	
BufferSize	: 10	
MessageLevel	: "debug"	
MessageLog	: '/opt/IBM/Netcool/omnibus/probes/eif/eif.log'	
Help	: 0	
Version	: 0	
StoreAndForward	:1	
AutoSAF	: 0	
RawCapture	: 0	
Portnumber	: 9999	
RulesFile	: '\$OMNIHOME/probes/aix5/tivoli_eif.rules'	
EIFCacheFile	: '\$OMNIHOME/var/tivoli_eif.cache'	
#StreamCapture	: true	
# End of file.		
MessageLog	: 'stdout'	
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This is the props file. You set the message level to debug to check the NCOMS and OMNIbus logs to see inserted SQL scripts.

ting er	ror event flow
Configur	ng error event flow to OMNIbus (optional)
To send e	rror events to the OMNIbus system when errors are detected in the event synchronization
process,	update the values for the following parameters in the eventsyno_install/omnibus
/errore	vent.conf file:
ServerN	ame
ServerH	ort
where:	
eventsyn	c_install
Is the lo	cation where event synchronization program is installed (on Windows® the default install
default	s/opt/IBM/SitForwarder).
ServerNa	me
Is the n	ame of the computer where the EIF probe is running.
ServerPo	rt
Is the li	stening port for EIF probe. The default value is 9999.

This is the error event flow page.



Use the sitconfuser command to add an additional Tivoli Enterprise Management Server user or server. You must set a unique user ID and password. The sitconfuser path is displayed.



To add a Tivoli Enterprise Management Server user or server on UNIX, change to the **/opt/IBM/SitForwarder/bin** directory and enter the command provided.

art	ing and stopping the situation update forwarder
	Marting and stopping the Situation Lindate Converder
2	and stopping the situation optiate Forwarder
i	To send event updates to a monitoring server, you must start the Situation Update Forwarder. This process s started automatically when the event server starts. To start the process manually, change to the install_esynch /bin directory and run the following command:
(Dn Windows®:
	startSUF.cmd
9	On UNIX®:
	startSUF.sh
1	To stop the process, run the following command:
(Dn Windows:
	stopSUF.cmd
(On UNIX:
	stopSUF.sh

To start and stop the situation update forwarder, enter the commands provided here.

	TBM
Summary	
In this module, you learned how to:	
 Install the situation update forwarder 	
 Send IBM Tivoli Monitoring events to Tivoli Netcool/OMNIbus 	
 Resynchronize them with IBM Tivoli Monitoring 	
 Troubleshoot the situation update forwarder 	
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In this module, you learned how to install the situation update forwarder. You also learned how to send Tivoli Monitoring events to Tivoli Netcool/OMNIbus, resynchronize them with Tivoli monitoring, and troubleshoot the situation update forwarder.

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