IBM Netcool/OMNIbus version 7.3

Introduction to gateways



This training module provides an introduction to IBM Netcool[®]/OMNIbus version 7.3 gateways.

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Objectives	
When you complete this module, you can perform these tasks:	
 Describe the functions that are performed with IBM Netcool/OMNIbus gateways 	
 Explain the difference between unidirectional and bidirectional gateways 	
 Describe the types of IBM Netcool OMNIbus gateways 	
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When you complete this module, you can perform these tasks:

Describe the functions performed by IBM Netcool/OMNIbus gateways

Explain the difference between unidirectional and bidirectional gateways

And name some of the different types of IBM Netcool OMNIbus gateways



In this slide you see the basic IBM Netcool/OMNIbus network architecture. ObjectServers, probes, and other components work with gateways to provide system functions.

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IBM Netcool/OMNIbus gateway functions	
IBM Netcool/OMNIbus gateways perform these functions:	
 Exchange of events between applications, databases, and helpdesk. 	
 Pass events between primary and backup object servers. Primary object server trans events to the gateways to replicate those events on the backup object server (object failover) 	smits server
 Integrate business functions Application gateways integrate business functions Reporting/Archiving Auto Trouble Ticketing 	
After configuration, gateway transfer of events is not apparent to system users	
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IBM Netcool/OMNIbus gateways enable the transmission and reception of events to and from applications, databases, and helpdesks. Gateways also are vital to primary and backup ObjectServer failover functions. Gateways keep events stored on the backup ObjectServer identical to those stored on the primary ObjectServer. During failover between ObjectServers, the backup can become active immediately without the need to update its stored events. Gateways integrate with business functions such as trouble ticketing, reporting, and archiving .After configuration, gateway event message transfers take place in relatively real time. The transfer process is invisible to operations personnel.



This slide shows the many types gateways available as of IBM Netcool/OMNIbus version 7.3.



Gateways transmit and receive events. These events can be passed to operators, helpdesk systems, databases, or other IBM Netcool/OMNIbus systems. Some events are programmed to be the catalysts or triggers for other actions.



Object servers can be configured in a multi-tiered three-layer architecture. With this architecture the IBM Netcool/OMNIbus system can handle more events. Unidirectional gateways are used between layers in the Collection and Display layers. A bidirectional gateway is used in the Aggregation layer.



Unlike the multi-tiered architecture, the basic architecture contains only one pair of ObjectServers. Gateways are connected to the ObjectServers. The ObjectServers are configured in pairs. One is the primary ObjectServer and the other is the ObjectServer backup. When the primary fails the backup automatically becomes active. This is called failover. The opposite takes place automatically when the primary is back on line. This opposite process is called fallback.



The IBM Netcool/OMNIbus architecture uses bidirectional gateways between the Aggregation Layer pair of ObjectServers. Bidirectional gateways are part of either the multi-tiered architecture or the basic architecture with only one tier. Unidirectional gateways are used only in the multi-tiered three-layer architecture. Unidirectional gateways are used to forward events from the Collection Layer to the (middle) Aggregation Layer ObjectServers. Unidirectional gateways are again used to forward events from the Aggregation Layer ObjectServers to the Display Layer ObjectServers.



This slide demonstrates some of the alert message transmission and reception roles played by gateways. The figure shows bidirectional gateways transmitting and receiving alerts from ObjectServers, help desk systems, and relational database management systems.



Shown here are more specifics about the destination targets of gateway event transmission.



IBM Netcool/OMNIbus gateways contain both reader and writer components. Readers pull alerts from ObjectServers while writers send alerts either to another ObjectServer or to other applications.

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Summary	
Now that you completed this module, you can perform these tasks:	
 Describe the functions that are performed with IBM Netcool/OMNIbus gateway 	ys
 Explain the difference between unidirectional and bidirectional gateways 	
 Describe the types of IBM Netcool/OMNIbus gateways 	
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Now that you completed this module, you can perform these tasks:

Describe the functions performed by IBM Netcool/OMNIbus gateways

Explain the difference between unidirectional and bidirectional gateways

and name some of the different types of IBM Netcool OMNIbus gateways

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