

This session discusses the changes that have been made to the Configuration Manager in Message Broker version 7. As you will have seen in the Release Overview session, the configuration manager component has been removed in version 7. This has implications on the installation and configuration of the broker, and some of the facilities that were formerly provided by the configuration manager.

	IBM
Agenda	
 Conceptual Changes Toolkit to broker runtime interaction Deployment Domains Security 	
 Working with brokers Connecting Using the user interface Command changes Administration API (CMP) changes Administration queue 	
2 Configuration manager changes	© 2010 IBM Corporation

This session will explain the nature of the changes made to the configuration manager, and the effect on the toolkit connections, and how to deploy and manage applications. The concept of domains has changed in version 7, as has the security mechanisms for administration.

Secondly, it will explain how to use the updated interfaces, including the toolkit and Message Broker Explorer, the command interface, and the administration API. It will also show how commands are logged and stored for audit purposes.

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Overview	
 Message Broker Version 7 will not contain a Configuration Manager Brokers become responsible for deployment, management and enforcement of administrative security Existing tools administer each broker directly 	
 Significant simplification of the broker operational model Fewer installed and configured components Single view of the broker environment No synchronization required 	
 The Configuration Manager really has gone It has not "moved inside the broker" 	
3 Configuration manager changes © 20	10 IBM Corporation

In Message Broker version 7, the configuration manager has been completely removed. All the functions provided by the configuration manager in previous versions of Message Broker are now provided by the broker itself. All software components which formerly connected to the Configuration Manager, such as the Message Broker Toolkit, now connect directly to the target broker. This also includes the new Message Broker Explorer, the command interface, and any applications using the administration programming interface.

The result of this change is a much simpler operational model. If you are familiar with previous versions of Message Broker, you will see a much easier environment to install, configure and operate. A key consequence of this change is that there is now a single view of the runtime environment. In previous versions, the Configuration Manager did not always reflect a true picture of the deployed applications in the broker, and synchronization was occasionally an issue. In version 7, this scenario is impossible, and applications will always receive a true picture of the runtime environment.

You should also note that the functions of the Configuration Manager have been rewritten to run optimally inside the broker. The Configuration Manager has not been moved to run in a different environment. This means that connection times and deployment times are improved compared to previous versions.



This slide provides a comparison of the key Configuration Manager functions in version 6.1 to the equivalent function in version 7.

The first item is the interaction with the tools, such as the Message Broker Toolkit, and the Configuration Manager API. In version 7, all tools and applications using the API connect directly to the target broker. The broker handles these requests itself, and the connecting applications will need to specify the connection details of the broker, in exactly the same way that it specified the connection details of the Configuration Manager.

For the deployment of applications, the barfile is deployed directly into the broker, using either the supplied tools, or your own applications.

The domain concept was a direct consequence of the usage of the Configuration Manager. In some scenarios, a single Configuration Manager instance was used to manage several broker instances, and this grouping of brokers was known as a domain. With the removal of the Configuration Manager, the concept of the Message Broker domain has also been removed. However, version 7 has introduced the concept of broker sets, which is a tool to allow separate broker instances to be logically grouped, and displayed using the Message Broker Explorer.

One of the functions provided by the Configuration Manager was the administration security, and the creation and maintenance of access control lists for the broker. The administration point is now provided by the underlying MQ queue manager, although the broker remains the security policy enforcement point. A fuller description of this facility is given in another IBM Education Assistant session.

And finally, all topics concerned with publish / subscribe have now been completely replaced by the publish / subscribe tools in WebSphere MQ.



As a reminder, in previous versions of Message Broker, all applications connected to the broker using the Configuration Manager Proxy API. This included the Message Broker Toolkit and the command line interface, and any user-written Java applications which needed access to Configuration Manager function.



In version 7, the same tools can invoke the same function, but in this case they connect directly to the target broker. The application interface is now known as the CMP API, although it operates in exactly the same way as it did in previous versions.

	IBM
Message Broker version 7 administration	
The broker environment is easier to manage	
 One view of all broker components 	
 More information returned to tools 	
 Improved connect and deployment times 	
 Long-standing niggles have been eliminated One-step broker creation (no Configuration Manager association step) No service user ID requirement on non-Windows platforms No "Deployment already in progress" messages No Configuration Manager / Broker synchronization problems Cancel deployment Performance 	
7 Configuration manager changes	© 2010 IBM Corporation

This slide discusses the main benefits that you will see as a result of the removal of the Configuration Manager.

First, the overall broker environment is easier to configure and manager, because there are fewer installed components. Secondly, all tools and applications will see a consistent view of the broker environment, and the deployed broker applications. There is no possibility of the brokers getting "out of sync" with the Configuration Manager.

At the same time, the information provided by the broker about the broker environment, and about the deployed applications, has been significantly increased. This extra information is displayed in the Message Broker Toolkit and the Explorer, and is also available to user-written applications.

In some larger broker deployments, it was possible for the connection to the Configuration Manager to take a long time. Again, as a result of the removal of this component, connection times to the target brokers will be much faster than previous versions., allowing better control and management of deployed applications.

A number of long-standing requirements have also been addressed. First, the creation of a broker is now much simpler than previously, and is now a single-stop operation. A Toolkit user can create a broker, connect to the broker and create an execution group, and can immediately start using the broker for deployments. Note that a database is no longer required; this is discussed in the next IBM Education Assistant session.

Next, the requirement to use a service user ID and password has been removed on most platforms. On UNIX and Linux platforms, in previous versions, the broker ran under the user ID of the person who issues the broker start request. However, this is still required on Windows, because of the way that the Windows service manager is used.

It is now possible for multiple users to connect and deploy applications to the broker at the SMMB7 in Augustion (Gastigner) (

Concept changes - Deployme	ant	
Concept changes - Deployme	ent	
Barfile deployment	Yes	
Cancel deployment	Fixed	
Topics hierarchy deployment	Not used	
Topology deployment	Not used	
Broker configuration deployment	Not used	
Configuration manager changes		© 2010 IBM Corpora

This slide highlights the main differences in the area of deployment.

First, the barfile deployment process is unchanged from previous versions. The Toolkit, MB Explorer, command interface or user-written application, will all deploy a barfile in exactly the same way to the target broker.

If you want to cancel a deployment, the process has been changed to avoid the possibility of affecting other users of the broker.

The other items of topics hierarchy, topology deployment and broker configuration, are not required in version 7. All actions that are taken to define or update the broker topology are performed directly on the brokers themselves. Any change of broker parameters are actioned immediately, and there is no requirement to reflect this change in the broker topology definition.



In summary, this slide shows the differences between Message Broker version 6.1 and Message Broker version 7. In version 7, the Configuration Manager has been removed completely, and consequently the concept of a broker domain no longer applies. In version 7, the brokers are managed independently, and all tools, such as the Message Broker Toolkit and the Message Broker Explorer, connect directly to all defined brokers.



This session now moves on to describe how to work with brokers, and how this has changed in Message Broker version 7.



In previous versions, there were several commands which communicated with the Configuration Manager, which in turn communicated with the required broker. Deploying a barfile, creating an execution group, and starting a message flow, are some examples of these types of commands.

These commands still exist in Message Broker version 7, but they now communicate directly with the broker. As in previous versions of Message Broker, these commands sometimes require specific connection details such as tcp/ip connection details, and queue manager information.

If the broker is a local broker, running on the same system as the command line application, then you only need to specify the name of the required broker. If the broker is remote, then you must specify the tcp/ip and queue manager connection details, using either the definitions directly, or contained within a file. An example is shown on this slide.



This slide shows an example of performing a deployment, using the "mqsi deploy" command.

In version 6 and 6.1, this command required the specification of the "-b BROKER" parameter. This was because the Configuration Manager managed several brokers, and specification of the TCP/IP address and queue manager did not provide sufficient information to allow the barfile to be deployed. The queue manager name specified by the "-q" parameter was the name of the queue manager used by the Configuration Manager.

In version 7, since the command interface connects directly to the broker, the "-q" parameter is the queue manager of the broker itself. The "-b BROKER" parameter is no longer required, and is ignored. If your broker and Configuration Manager used the same queue manager in version 6.1, then the same command will work unchanged in version 7. If your broker used a separate queue manager, then you must change the connections details of these commands, to ensure that the command uses the connection details of the broker queue manager.

IF	M
ConfigManagerProxy (CMP) API changes	
 Administration API simplified Removal of Configuration Manager Removal of publish / subscribe component (now in WebSphere MQ) 	
 Package names, class names and method signatures unaffected 	
 Support for version 6.0 / 6.1 applications Applications will compile without change Applications that do operations that are relevant in version 7 should continue to work 	
13 Configuration manager changes © 2010 IBM Corp	oration

In Message Broker version 7, the Configuration Manager Proxy API has been simplified. All API function concerned with the Configuration Manager, the broker topologies and the publish / subscribe hierarchy have been removed, since this function is no longer relevant.

Existing applications written for version 6 or 6.1 will continue to compile without change. However, the compile might produce warnings about deprecated functions, and you should consider cleaning up those applications to avoid these warnings.



This example illustrates the simplifications in version 7, and how the removal of the Configuration Manager has allowed user-written applications to take advantage of this.

In this case, the application is connecting to a local broker called MB7BROKER. There is no need to specify any additional connection details. The application connects to the broker, and returns a proxy object known as "b". The application then uses this to retrieve details of the required execution group, "eg1", and sets the proxy object "eg".

Finally, this information is then used to deploy the barfile directly to the execution group.

Compati	bility with existing CMP applications
Benefit fro	om direct broker connections without having to change existing applications use your version 6.0 / 6.1 CMP code to connect to a broker:
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You are r	recommended to use version 7 APIs where possible
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informatic	on that the existing application might expect
You will r	receive deprecation warnings when compiling
You are r	recommended to use version 7 APIs where possible

If an application is using the more complex form of connection details, and has been migrated from Message Broker version 6 or 6.1, this will continue to work in version 7. However, it will connect directly to the broker. You will need to check that the connection details are correct for the version 7 environment.

The example shown here connects to the Configuration Manager, and obtains details of the broker runtime. This application will generated deprecation warnings when compiled, but will continue to run unchanged in the version 7 environment.

	changes	IBM
Connect to Local E Connect to Render Connect to Render Connect To Local E Connect to Render Connect to R	ander	 New actions "Connect to Broker" option View menu (Basic/Advanced/Everything) Show barfiles under execution group; view and re-deploy them Clipboard interaction - added 'Copy' option to table cells
testbrk	BrokerProxy Method getBrokerLongVersion()	 Control service trace for execution group and message flow
····· L Administration Queue 승규는 eg1 승규는\simpleMQInToOut.bar	getBroker0SArch() getBroker0SName() getBroker0SVersion() netBroker0Sversion()	 Removed all publish /subscribe administration options, including topology
eg2 Configurable Services EISProviders □ □ □ PeopleSoft	getConfigurationObjectType() getConfigurationObjectTypeOfParent() getExecutionGroups()	 Added nodes, barfiles, message flow dependencies and icons to tree
SAP	[2] 	 Added Administration Queue
JDBCProviders	HTTPConnector/URIEncoding HTTPConnector/CoreptCount	 Added Configurable Services
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16 Config	guration manager changes	© 2010 IBM Corporation

The API Exerciser has been updated to take account of the Configuration Manager changes in version 7. As a reminder, the API Exerciser is a standard component of the Message Broker product, providing a graphical user interface to the administration API, allowing connections to any defined brokers. All API functions are available, and full security is applied to users of this application. If changes are made to the API, then corresponding changes are made to the API Exerciser, as an aid to illustrating how this function can be used in your own applications.

For example, in version 7, the API Exerciser now distinguishes between local and remote brokers. If you select a local broker, you only need to select the required broker from the available list. New options such as the administration queue and configurable services have been added to the information presented.

The bulleted list shown on this slide provides a summary of the enhancements made to the API Exerciser.



If you are familiar with previous versions of Message Broker, you might be aware of the "bip broker" (*pronounced BIP*) process, otherwise known as the "Administration Agent" process. This process was used by the Configuration Manager to communicate with the broker execution groups. The Message Broker tools and user applications used the proxy API to communicate with the Configuration Manager, which in turn connected to the "bip broker" process.

In version 7, the "bip broker" process is still used, but is accessed directly by applications and tools which use the administration API. The broker execution groups are still accessed using the "bip broker" process, not directly by user applications.

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Administratio	n queue		
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 What administra 	ation requests are outstand	ling?	
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In previous versions of Message Broker, it was possible to cancel an outstanding barfile deployment. This was sometimes necessary to clear the deployment queue to resolve a performance problem with the Configuration Manager. The cancel function did sometimes result in other problems, and with the removal of the Configuration Manager, this function has been replaced with an alternative mechanism to remove unfulfilled deployments.

In version 7, all requests to the broker are now managed using the Administration Queue. This queue is accessible using the Administration API, and is shown in the API Exerciser, and the Message Broker Explorer. The example shown here is the creation of an execution group, called EG1. This action has placed a small item in the administration queue icon. As additional requests are passed to the broker, the queue of items shown will increase. To display details of the outstanding requests, right-click the administration queue and select "Display outstanding requests". To cancel a particular request, select "Cancel request", and select the particular request.

This function is also available using the Message Broker Explorer.

	IBM
Summary	
 The Configuration Manager has been removed in Message Broker version 7 	
 This significantly simplifies operational management No domains Single deployment type 	
 The Message Broker Toolkit, Message Broker Explorer, command line interface application connect directly to brokers 	e, and user
19 Configuration manager changes	© 2010 IBM Corporation

In summary, the Configuration manager has been removed in Message Broker version 7. This has resulted in a significant simplification of the deployment architecture for Message Broker, and the concept of the broker domain has correspondingly been removed. The supplied tools such as the Message Broker Toolkit and Explorer, the command line interface and the administration API, all connect directly to the required broker.

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