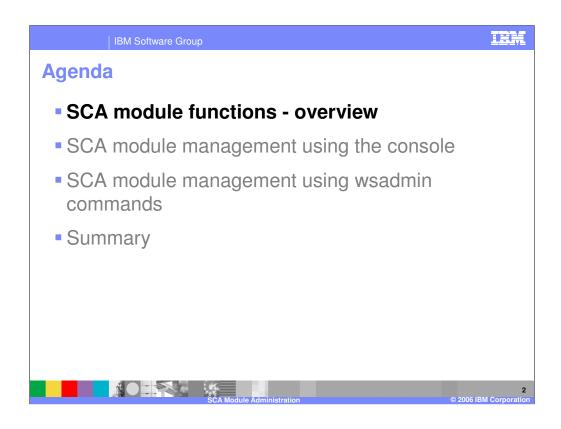


This presentation focuses on the new administrative interface and commands related to SCA modules in WebSphere Process Server v6.0.1 and the new WebSphere Enterprise Service Bus (ESB) v6.0.1.



The agenda for the presentation is listed on this page. The first section covers an overview of the SCA module functions.

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SCA Modules as Administered Objects

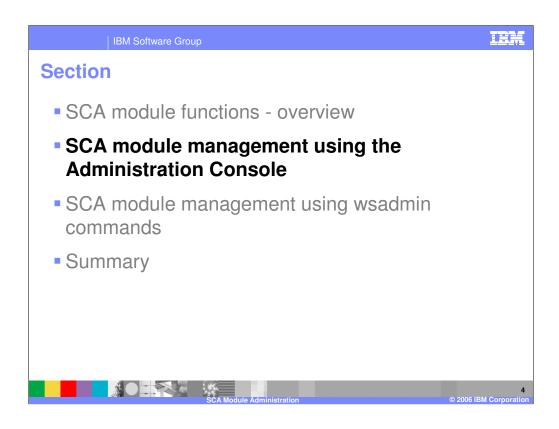
- SCA modules are exposed as administered objects in WebSphere Enterprise Service Bus V6.0.1 and WebSphere Process Server V6.0.1
- Following functions can be performed on the SCA modules
 - List the SCA modules and its import and exports
 - ▶ Show the attributes and interfaces of the SCA modules
 - Dynamically modify the import SCA bindings to point to another modules Service provider within the cell with the same interface and SCA binding (in its export)
- The functions can be performed using the administration console or the new commands added in wsadmin



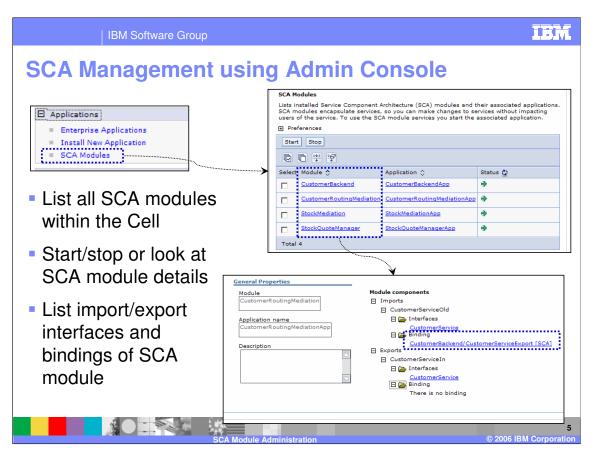
New in WebSphere ESB and Process Server v6.0.1 is the exposure of SCA modules as administered objects within the system management framework of the server. Administrators can view SCA modules and attributes, and in certain cases dynamically change the SCA binding of an import to point to another SCA module that is exposed with an SCA binding, and has the same interface.

Allowing the system administrator to dynamically change the SCA import binding gives them the capability to allow services to be replaced without the need to change the application in the tooling.

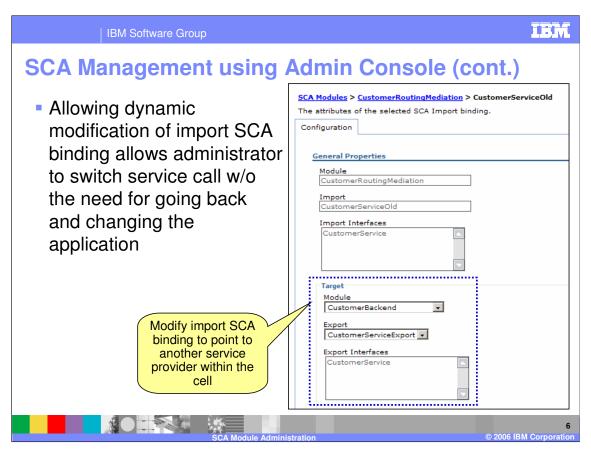
All the SCA module administrative functions can be performed using the Administrative Console or the new weadmin commands.



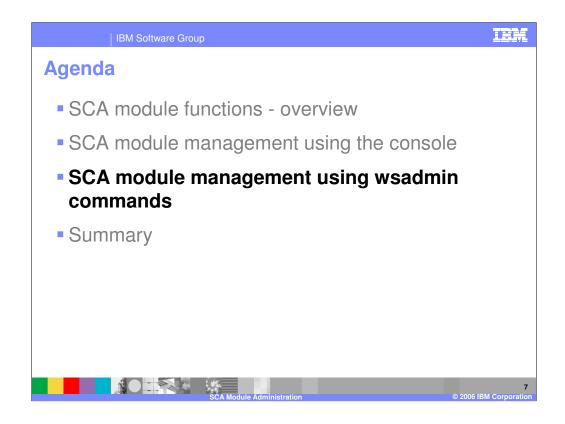
This section covers the administrative functions exposed in the Console.



SCA modules are exposed within the Application group. Clicking on the SCA module, you can start or stop the module, or look at the details of the module.



In addition, for an SCA module that has an import with an SCA binding, you can dynamically change the target SCA component that has the same interface and an SCA export binding. This is quite a powerful function, which allows system administrators to change the service calls to other SCA components without the need to go back to the tooling and change the target module.



This section covers the new wsadmin commands for administering SCA modules.

IBM **IBM Software Group SCA Module Command Details: List** Command **Description** Returns a list of all the SCA modules deployed to the cell Format: listSCAModules listSCAModules Return Format: <module name>:<application name> Example: wsadmin> \$AdminTask listSCAModules Return a list of the SCA exports of a given SCA module. This includes all exports, irrespective of their binding. **listSCAExports** Format: *listSCAExports* {-moduleName < moduleName>} Example: wsadmin> \$AdminTask listSCAExports {-moduleName StockAppModule} Return a list of the SCA imports of a given SCA module. This includes all exports, irrespective of their binding. **listSCAImports** Format: listSCAImports {-moduleName < moduleName>} Example: wsadmin> \$AdminTask listSCAImports {-moduleName StockAppModule}

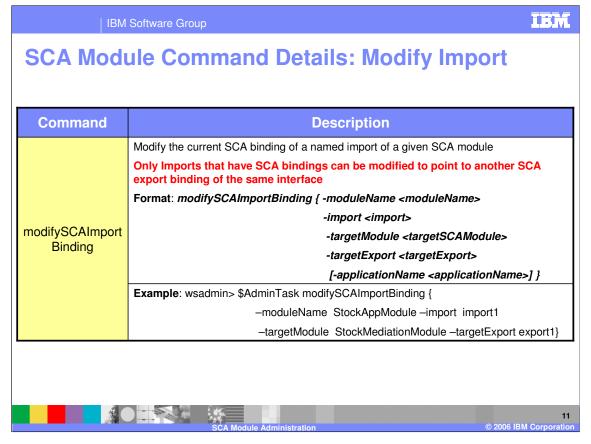
The commands to list SCA modules and SCA exports and imports within a SCA module are shown here along with the description and command syntax.

IBM **IBM Software Group SCA Module Command Details: Show** Command **Description** Shows the attributes of an SCA module given the module name Format: showSCAModule {-moduleName < moduleName> showSCAModule [-applicationName <applicationName>] } **Example**: wsadmin> \$AdminTask showSCAModule {-moduleName StockAppModule} Shows the export attributes & interfaces for a named export of a given SCA module Format: showSCAExport {-moduleName < moduleName > -export < export> showSCAExport [-applicationName <applicationName>] } **Example**: wsadmin> \$AdminTask showSCAExport {-moduleName StockAppModule -export export1} Shows the import attributes & interfaces for a named import of a given SCA module Format: showSCAImport {-moduleName < moduleName > -import < import > showSCAImport [-applicationName <applicationName>] } **Example**: wsadmin> \$AdminTask showSCAImport {-moduleName StockAppModule -import import1}

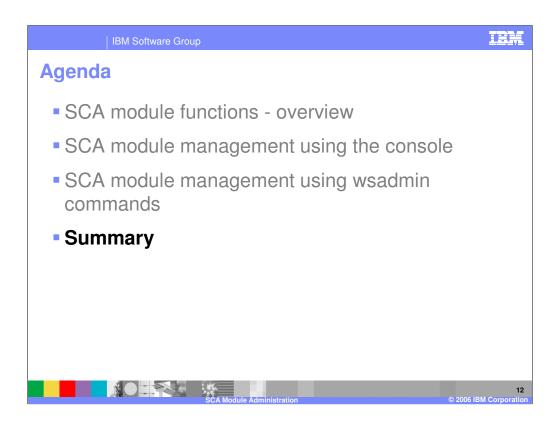
The commands to show the attributes of an SCA module and the attributes of an SCA export and import within a SCA module are shown here along with the description and the command syntax.

IBM **IBM Software Group SCA Module Command Details: Show - Continued** Command **Description** Shows the current binding attributes of a named export of a given SCA module Format: showSCAExportBinding {-moduleName < moduleName > -export < export> showSCAExport [-applicationName <applicationName>] } Binding **Example**: wsadmin> \$AdminTask showSCAExportBinding {-moduleName StockAppModule -export export1} Shows the current binding attributes of a named import of a given SCA module Format: showSCAImportBinding {-moduleName < moduleName > -import < import> showSCAImportB [-applicationName <applicationName>] } inding Example: wsadmin> \$AdminTask showSCAImportBinding {-moduleName StockAppModule -import import1}

The commands to show the attributes of an SCA export binding and import binding are shown here along with the description and the command syntax.



The commands to dynamically modify the SCA binding of an import is show here. The import binding must be of type SCA, and the binding of the target export must be another SCA binding and have the same interface.



This section provides a summary of this presentation.

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Summary

- SCA modules within a cell are exposed as administered objects through the Adminstrative console and command line wsadmin
- Dynamic modification of the SCA import binding allows Administrator to replace services being invoked from the ESB, without the need to change the application



SCA modules are now exposed as administered objects. Another important function is the ability of the system administrator to dynamically change the SCA import binding, allowing services to be replaced without the need to modify the application.

IBM **IBM Software Group SCA Module Administration Commands - Summary** Command **Command Description** Category **listSCAModules** Returns a list of all the SCA modules deployed to the cell **listSCAExports** Return a list of the SCA exports of a given SCA module List listSCAImports Return a list of the SCA imports of a given SCA module showSCAModule Show the attributes for a given SCA module Show the export attributes (including supported showSCAExport interfaces) for a named export of a given SCA module Show the import attributes (including supported showSCAImport Show interfaces) for a named import of a given SCA module Show the current binding attributes of a named import of showSCAImportBinding a given SCA module Show the current binding attributes of a named export of showSCAExportBinding a given SCA module Modify the current binding of a named import of a given Modify modifySCAImportSCABinding SCA module, providing the import has an SCA binding

In summary, new wsadmin AdminTasks commands are added to list and show SCA modules and attributes and to modify the import SCA bindings of an SCA module to target another SCA export binding

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