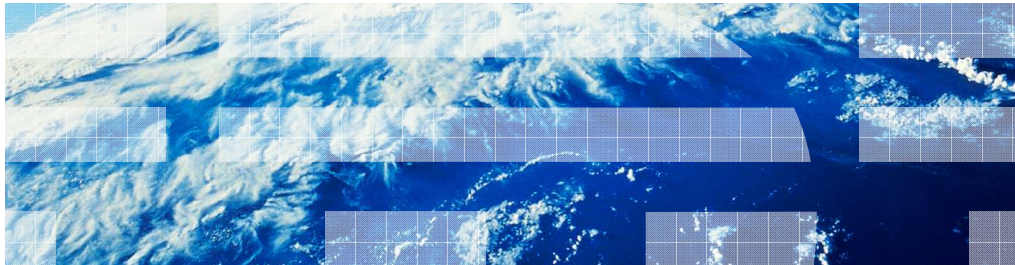


IBM WebSphere Application Server Communications Enabled Applications

Cluster support



This presentation covers the cluster support provided by the Communications Enabled Applications feature of IBM WebSphere® Application Server.

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- CEA support in a clustered environment
- Summary

This presentation covers support for communications enabled applications in a clustered WebSphere Application Server environment.

Clustering support overview

- CEA functionality can be used in a clustered environment
- CEA features supported in a cluster
 - REST APIs
 - Web service support
 - Web widgets

The Communications Enabled Applications (CEA) feature supports clustered WebSphere Application Server environments, enabling a high level of availability. The communications enabled application components, such as the REST APIs, support for Web services, and the CEA Web widgets, can be deployed in a cluster.

Enabling CEA in the cluster

- CEA services must be enabled at the cluster level
 - **Servers > Clusters > WebSphere application server clusters > *server_cluster* > Communications Enabled Applications (CEA)**
 - Server and cluster-level settings are similar

When working with the Communications Enabled Applications (CEA) feature on a single server, you must first use the administrative console or wsadmin to enable CEA services at the server level. Similarly, when working with a cluster, you must enable the CEA services at the cluster level. Within the administrative console, first select the appropriate cluster. Then display the Communications Enabled Application (CEA) settings page. The server and cluster-level settings are similar.

Enabling CEA in a cluster (1 of 2)

The screenshot shows the WebSphere administrative console interface for configuring a cluster. The breadcrumb path is "WebSphere application server clusters > DuckCluster". The "Local Topology" tab is active. The "General Properties" section includes fields for "Cluster name" (DuckCluster), "Bounding node group name" (DefaultNodeGroup), and checkboxes for "Prefer local" (checked) and "Enable failover of transaction log recovery" (unchecked). The "Cluster messaging" section has a "Messaging engines" link. The "Communications" section is circled in red and contains a "Communications Enabled Applications (CEA)" link. The "Additional Properties" section includes links for "Cluster members", "Backup cluster", "Endpoint listeners", and "Security domain". At the bottom, there are "Apply", "OK", "Reset", and "Cancel" buttons. The footer contains the number "5", "Cluster support", and "© 2011 IBM Corporation".

The following administrative console screen provides access to the settings for a cluster that includes two members. Clicking the Communications Enabled Applications (CEA) link displays the corresponding CEA settings page that is illustrated on the next slide.

Enabling CEA in a cluster (2 of 2)

[WebSphere application server clusters](#) > [DuckCluster](#) > **Communications Enabled Applications (CEA)**

The Communications Enabled Applications (CEA) feature enables organizations to quickly add real-time communications support to Web and business applications. Use this page to define the state of the communications service application, the REST interface to the communications service, and a telephony access method.

Configuration

General Properties

Communications Enabled Applications services

Enable communications service

REST interface

* Context root
/commsvc.rest

Additional Properties

■ [Custom Properties](#)

6 Cluster support © 2011 IBM Corporation

This administrative console page includes the cluster-level Communications Enabled Applications settings. After selecting Enable communications service, you must restart the cluster for the change to take effect.

Large topology support

- CEA supports large topologies
- Basic IBM WebSphere Application Server guidelines for large topologies apply
 - There is no definitive answer to the question “How large can you make a WebSphere Application Server cell?”
- Best practices for large WebSphere topologies should be followed:

http://www.ibm.com/developerworks/websphere/library/techarticles/0710_large_topologies/0710_large_topologies.html

The Communications Enabled Applications (CEA) feature supports large topologies in a cluster. The basic guidelines for working with WebSphere Application Server in large topologies still apply when configuring a cluster to support communications enabled applications. A question commonly asked when considering using IBM WebSphere Application Server with a large topology is “How large can you make a WebSphere Application Server cell?”. There is no definitive answer to this question as many factors must be taken into consideration when designing a clustered solution for enterprise applications, or for enterprise applications that take advantage of the CEA features. Best practices for large WebSphere topologies should be followed. There are some useful articles available on IBM developerWorks to help answer questions related to large WebSphere Application Server topologies.

CEA failover support (1 of 2)

- Failover support for CEA components
 - REST APIs
 - Web service calls
- REST API failover support
 - Seamless failover of REST based telephony actions
 - Seamless failover of REST based Web collaboration implementations

Failover support is available for enterprise applications using the Communications Enabled Applications (CEA) REST APIs and applications using the CEA Web services. Applications that use the REST APIs for CEA can have seamless failover support. REST based telephony and Web collaboration implementations will have seamless failover of telephony actions in progress. Also, failover for applications using the Web collaboration features will not have their application use interrupted during a failover while two parties are in the middle of a cobrowsing session.

CEA failover support (2 of 2)

- Web service failover support
 - Applications using Web service **telephony** actions will failover seamlessly in a clustered environment

Along with failover support for REST API, telephony, and Web collaboration actions, failover support is provided for communications enabled applications using Web services. Web services failover support is available for communications enabled applications that use Web services for telephony enablement in a cluster. Web service telephony activities that are in progress when an application server fails over to another server in the cluster will continue to work.

Section

Section

This section summarizes the clustering support provided by the Communications Enabled Applications feature of IBM WebSphere Application Server.

Summary

- Enabling CEA in the cluster
- Large topology support
- Web services support
- CEA failover support

The Communications Enabled Applications feature of WebSphere Application Server supports clustered environments. REST APIs for telephony and Web collaboration are supported in the cluster with failover support. Failover support is also provided for telephony actions when they are implemented as Web services.



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