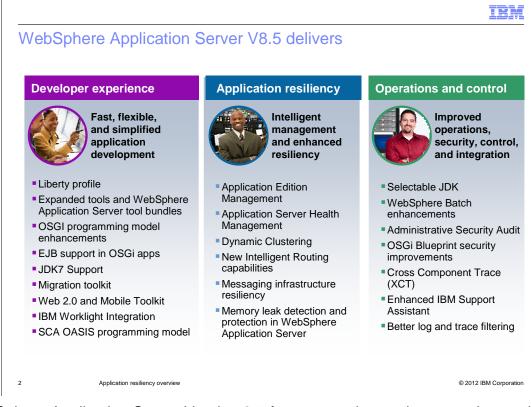
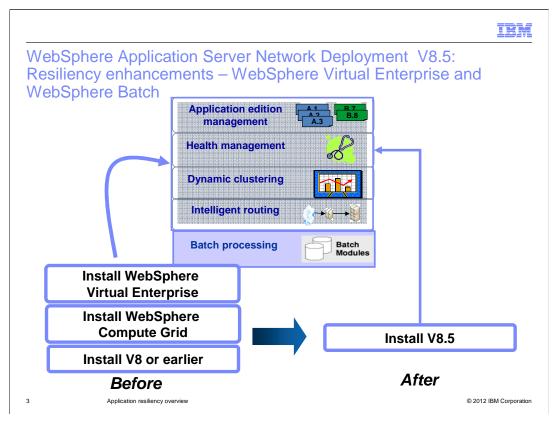


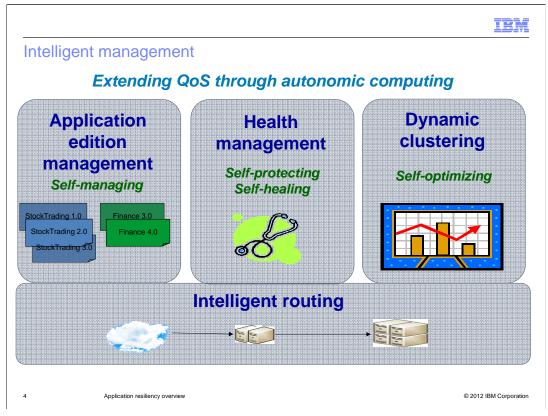
WebSphere[®] Application Server V8.5 brings you Java SE7 as a pluggable JDK, a profile that runs significantly faster and loads only components that are needed in your configuration, and intelligent management functions that make the application server even more resilient. This overview specifically covers the new features that improve application resiliency of the application server.



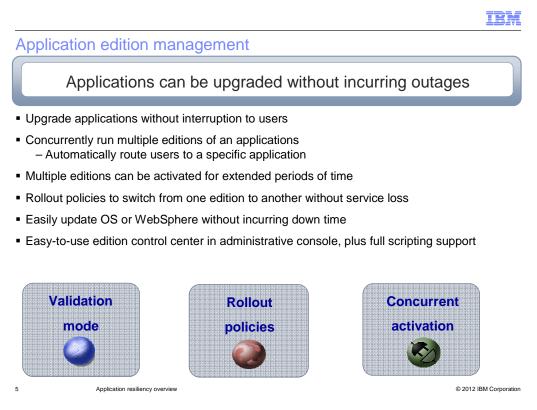
WebSphere Application Server Version 8.5 focuses on three primary goals: providing a fast, flexible, and simplified application development environment that allows you to deliver rich user experience faster; provide intelligent management and enhanced resiliency for your application server environment; and improve operation, security, control and integration of the application server.



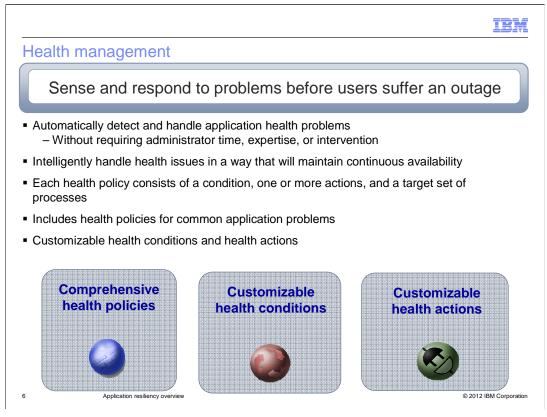
Intelligent management features in WebSphere Application Server V8.5 makes the application server even more resilient. These enhancements include application edition management, new intelligent routing capabilities, application server health management, and dynamic clustering. The WebSphere Virtual Enterprise product its now fully integrated as part of the WebSphere Application Server V8.5 release.



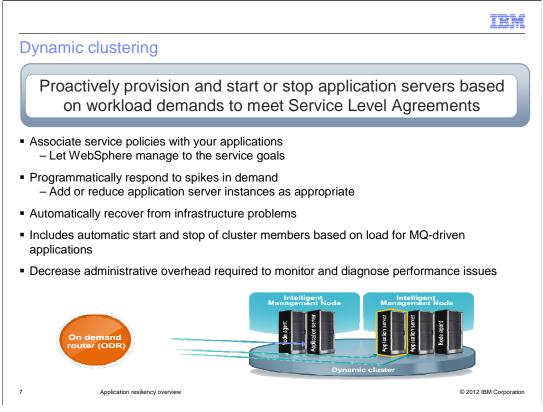
WebSphere Application Server V8.5 has several features that improve the quality of service through autonomic computing. These features make possible automatic routing without the need to update configuration files, application edition management without incurring any application downtime, automatic server health detection and correction without administrative intervention, and enhanced performance management through service policies. Intelligent management is part of WebSphere Application Server Network Deployment V8.5, WebSphere Application Server for z/OS® V8.5, and WebSphere Application Server Hypervisor Edition V8.5



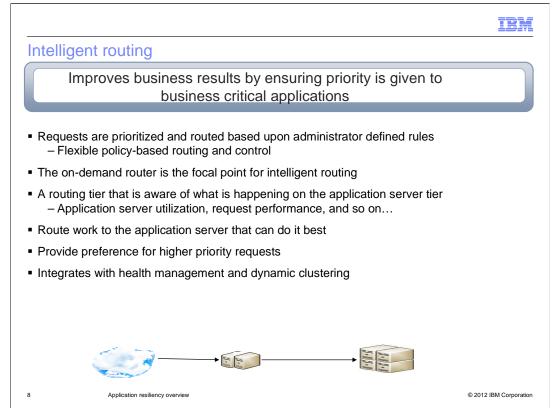
WebSphere Application Server Version 8.5 provides application edition management, which allows you to rollout newer versions of the application without incurring an outage. The application edition management feature allows you to install a second version of the application and run it by directing some of the traffic to it and after you feel comfortable that it meets the need, you can have the application server automatically switch entirely to the newer version and get rid of the old one, or you can switch back to the old copy. These changes can be made easily without incurring any downtime.



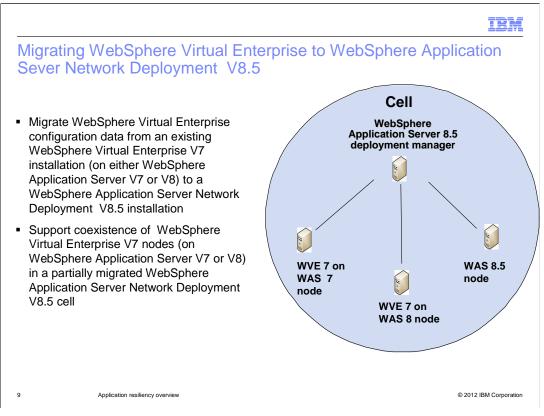
WebSphere Application Server Version 8.5 can monitor servers for common health problems and take corrective action. There are several health conditions that can be defined using health policies. When a violation of a health policy is detected, an action plan can be put into effect automatically – including sending email, capturing diagnostic data, and restarting the application server. Application server restarts are smart and done in a way to prevent outage and service policy violations. WebSphere Application Server Version 8.5 provides the "First line of defense" for poor application health by mitigating common health problems and routing around unhealthy servers.



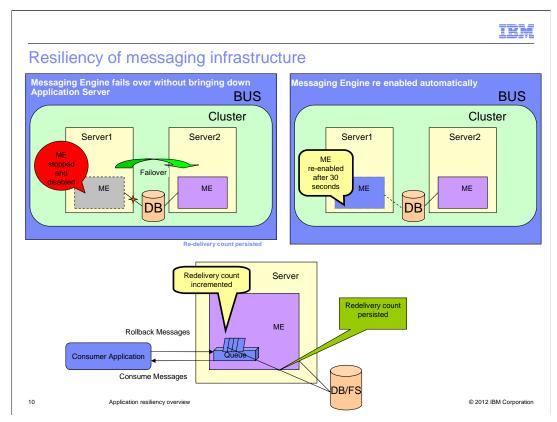
Dynamic clustering allows the system to dynamically respond to spikes in demand by adding and reducing application server instances to accommodate the workload. This also includes recovering from infrastructure problems. This will help in decreasing the administrative overhead of monitoring and diagnosing performance issues.



The on-demand router is the layer that allows most of the intelligent management functionality to work by routing work to the right place, using the health monitoring data and the request priority set by the application.

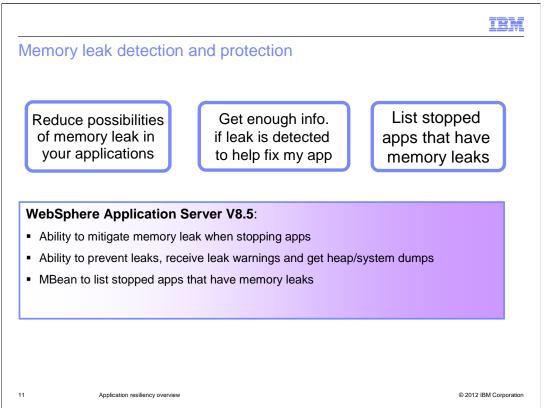


You can migrate from WebSphere Virtual Enterprise to WebSphere Application Server V8.5. Migration tools handle the migration of Virtual Enterprise V7 to WebSphere Application Server Network Deployment V8.5. Mixed cell environments are supported where within the same cell, you can have a WebSphere Application Server V8.5 deployment manager and a Virtual Enterprise V7 on a WebSphere Application Server 7 Node or WebSphere Application Server V8 node, and a WebSphere Application Server V8.5 node as in this diagram.

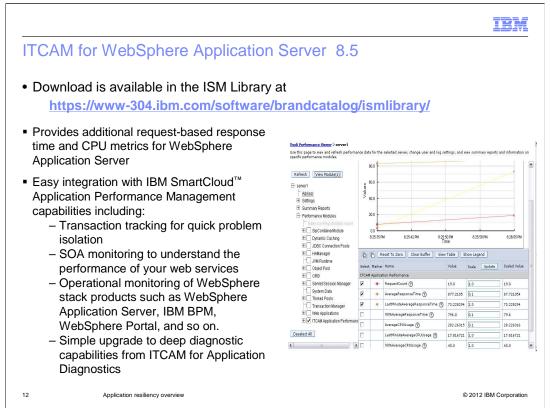


The WebSphere Application Server V8.5 messaging engine fails over to the stand-by instance without the need of bringing down the entire application server when an unrecoverable problem such as a hang or database connectivity issue is encountered. If the messaging engine is self-disabled due to a failure, it will re-enable itself after a configurable amount of time. If the problem still exists, it will take itself down again.

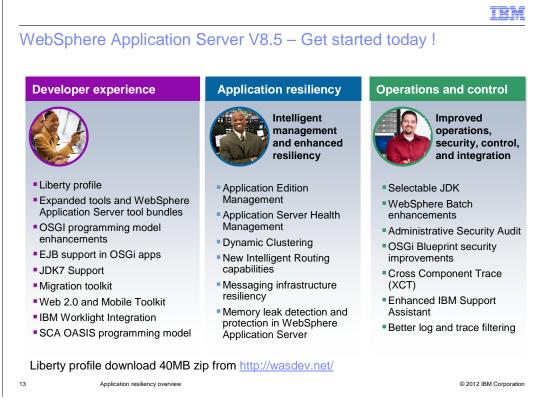
The number of message delivery attempts is persisted and available to the messaging engine upon its restart.



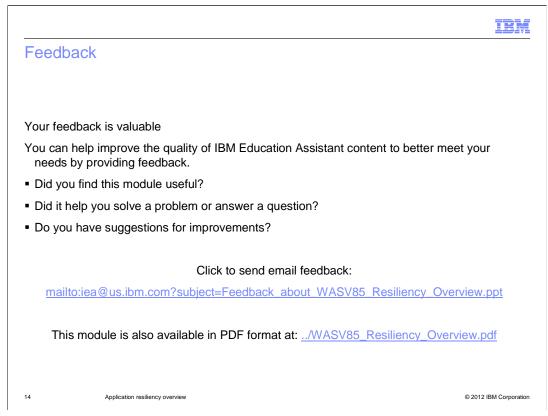
WebSphere Application Server V8.5 provides top down pattern-based memory leak detection, prevention, and action by watching for suspect patterns in application code at run time. It can protect against memory leaks when stopping or redeploying applications. This feature monitors application and module activity and performs diagnostic actions when an application or an individual module stops, helping to increase application up time and with frequent application redeployments without cycling the server.



ITCAM for WebSphere Application Server no longer ships on the WebSphere Application Server media. Instead, it can be downloaded from the ISM library.



In summary, WebSphere Application Server V8.5 is the best WebSphere Application Server release to date. It provides improvements in application server resiliency. For more information about improvements in the developer experience and in operations and control, see the overview presentations for those topics. Download and try the Liberty profile from wasdev.net, and investigate for yourself all the resiliency improvements in WebSphere Application Server Network Deployment V8.5.



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