

Ultimus

Statement on Ultimus BPM 7.1 and Database Clusters

Last Updated: March 8, 2006

This document is intended to provide guidance for the deployment of Ultimus BPM Suite 7.1 in a clustered database environment.

There are many different reasons for using a clustered database. The main reasons are for performance, scalability, and reliability. Just as there are several reasons that our customers may choose to deploy their databases in a clustered environment, there are different ways that a database cluster may be architected. A list of possible architectures follows:

1. **Parallel Processing** – This mode means there are two or more database servers, all appearing as one server to the Ultimus BPM Server.
2. **Fault Tolerance** - This mode means there are two or more database servers, but only one server is active or available to the Ultimus BPM Server at a given time. In this configuration, if server A fails, it will “fail over” to server B.
3. **Load Balancing** – This mode means there are two or more database servers and the server requests are “balanced” or distributed to the appropriate database server across the cluster based on some criterion such as CPU utilization. In the architecture, the cluster would still appear as one server to the Ultimus BPM Server.

All database connectivity from the Ultimus BPM Suite to the actual BPM Database is made through the OLE DB provider of the database vendor. Therefore, all Ultimus BPM Suite access is within the capabilities and constraints of these OLE DB providers.

Ultimus does not specifically test Ultimus BPM Suite 7.1 in a clustered database environment; therefore we are not able to provide deep diagnostics to issues that arise out of its usage. However, Ultimus will provide support for the Ultimus BPM Suite 7.1 in this environment for issues pertaining to “normal” usage. Ultimus will provide a “best effort” to provide answers and resolutions for all support incidents submitted specific to Ultimus BPM Suite issues for deployments in a clustered environment.

Improving support for and adding testing of Ultimus BPM Suite in a clustered database environment is on our product roadmap. We plan to initiate these activities in the next version of our suite.