

Abstract

Building Highly Scalable and Available Geodatabase Systems Using RAC Technology

Track: System Implementation for GIS

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The database application services requirements for GIS have grown tremendously over the years. The current state of these requirements call for a highly redundant and scalable implementation of a spatial RDBMS environment. New Light Technologies (NLT) has such a solution in the District of Columbia Government is its implementation of the Centralized Enterprise GIS infrastructure. The requirements of this infrastructure called for the best of breed capabilities provided by ESRI's ArcSDE and Oracle's Real Application Clusters (RAC) using Oracle9i's Cache Fusion Cluster architecture. This paper discusses the implementation of such an enterprise database architecture and the different techniques that were used in the D.C. Government implementation by NLT.

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