

Slide 1

Hi. Keith White, Director of Availability Engineering. I'd like to talk to you a little bit about disaster recovery with Sun Cluster.

Slide 2: Sun Cluster Geographic Edition: Disaster Recovery Across Unlimited Distance

So we have a product called Sun Cluster Geographic Edition, part of the Sun Cluster family that we built specifically to cover disaster recovery over unlimited distance. We have one click takeover, multi-cluster and multi-site support, as well as single console management of the clusters.

Slide 3: Sun Cluster Geographic Edition: Multi-cluster and Multi-site Support

Sun Cluster Geographic Edition has the ability to support N + 1 multi-site configurations. That is, as you can see in this graphic here, we have three sites -- Paris, Berlin, and Rome -- all replicating -- notice the arrows -- to a site in Geneva. So there are clusters in each of those sites, each of them replicating to a single site in Geneva; so the N + 1 technology there. The replication themselves are single ware application, so each of those sites are only replicating toward Geneva and not the reverse, where Geneva is replicating back towards the other sites. This will actually save -- instead of having multiple pares across all sites, a single one backing up all the other sites that you have in your network.

Slide 4: Sun Cluster Geographic Edition: Multi-cluster and Multi-site capability

In addition, we have active active configurations; that is, each of the sites backs up the other site. So, in this case, a site in New York or a cluster in New York and a cluster in London, each of them replicating data towards the other so that the services in New York are busy doing the service work there, but replicating the data over to London and the services in London are busy doing the work that they do there, replicating the data back over to New York. So it's a bi-directional data replication scenario. And each site, in the case of any failure, could take over for the other site on both sets of services.

Slide 5: Sun Cluster Geographic Edition: Disaster Recovery

In addition, we allow the ability to have optional both heartbeat and storage network. You can actually have these networks or the replication for either the heartbeats or the storage run over the primary network, the public network, or you can have dedicated network lines associated with each of these storage or heartbeat or the primary traffic itself. So the distance between those is unlimited at this point. We have a test setup ourselves, where we replicate between Menlo Park and Grenoble, France. It's great. The product works perfectly in these scenarios. It's optimized for those types of distances.

**Slide 6: Sun Cluster Geographic Edition:
One-Click Takeover**

In addition to this, we have one click takeover. So, if you determine that a site needs to stop work and the work needs to be picked up in another place, you have the ability to just do one click and the next site takes over. You have, of course, the ability to insert business process in this step so that anything that you need to make sure that you really want the site to take over happens at that point, including making sure the buffers are flush or whatever data transfer or business process that you have is incorporated in that step. It doesn't automatically decide; you actually have to tell it, but it's a one click step to take over and the services continue at your backup replication site. In addition, the global resource manager monitors the resources across both sites.

**Slide 7: Sun Cluster Geographic Edition:
Web-based Single Console**

As part of this package, you also get a Web-based console, the Sun Cluster manager, that manages the global heartbeat, so it monitors heartbeats across all the sites to make sure everything is functioning in the replication scenario. You get to see notifications in this Web console, so any notifications that are set up show up in the console here. You can set up custom heartbeat. We provide heartbeats, but if you'd like to set up your own custom heartbeats because you have specific needs around the heartbeat themselves or things that you need to monitor in that scenario, you can set those up. In addition to configurable heartbeats or custom heartbeats, you can configure the timeout period between these heartbeats. As your application or systems need, you can set the timeout periods as desired. And, as you can see, the world recently has been an interesting place to live. There's been lots of things changing and needs for business continuity, where systems are no longer available, become very important. So, as your business expands and goes global, consider Sun Cluster Geographic Edition as the solution to those needs.