MetaView Director

There are some areas in your network where performance can suffer as a result of scale. For example, some applications that rely on polling (for changes in subscriber call state, message-waiting, etc.) work well in smaller deployments, but slow down in larger deployments that span multiple geographic areas.

MetaView Director anticipates and corrects for these concerns by providing a centralized notifications repository, allowing sources (such as MetaSphere application servers) to publish events directly so that MetaView Director can then push these events to appropriate network and management system elements. By utilizing SIP for its notification interfaces, while remembering the state of the notifications it pushes, MetaView Director performs the role of SIP Event State Compositor, allowing it to function seamlessly in IMS networks.

Service Federation

MetaView Director allows clusters of MetaSphere Systems to appear to subscribers and administrators as a single entity. This dramatically reduces your deployment costs in a number of important scenarios by offering:

A straightforward and much more cost-effective growth path: once you have reached the capacity of your chosen MetaSphere Application Server system, simply add a second MetaSphere System to increase overall capacity. Further MetaSphere systems can be added to the cluster, up to a maximum of 10 million subscribers, while still offering the same convenience to your customers and administrators.

Deployment of an integrated service across multiple MetaSphere Application Server systems, in geographically separate locations. By locating your MetaSphere Application Servers physically adjacent to your switching platforms, the number of calls that are backhauled over remote IP links is substantially reduced – in turn reducing your bandwidth requirements and networking costs.

Service federation allows the multiple systems to act as though they were one. Features like subscriber-to-subscriber messaging, forwarding, replying, and group lists integrate seamlessly between the systems. As a result, a subscriber can call into any of the systems – for example, if you choose to publicize a global access number for your whole network – and be automatically transferred to whichever system hosts the respective mailbox.

If you wish, your subscribers can all access CommPortal through a single domain – they are automatically redirected to the correct MetaSphere Application Server System when

logging in. CommPortal Widgets and CommPortal Assistant similarly work across all systems, and for deployments including SIP Phone Provisioning Server and CommPortal Phone Applications, phones automatically retrieve their configuration from the correct MetaSphere System.

Enhancing Network Wide Management

MetaView Director plays a vital role in your network-wide management as your subscribers become increasingly distributed across multiple MetaSphere platforms. MetaView Director provides a location database for fast lookup of the master source, dramatically improving your operational efficiency. Management platforms are also updated to ensure that administrators can look after multiple systems as easily as they look after one.

Specifications

Platform

- Metaview Director is available on multiple hardware and virtual platforms, including VmWare and Openstack. Hardware platforms include NEBS level 3 and non-NEBS datacenter servers.

Network Requirements

MetaView Director is required in your network in the following scenarios:

- If you have or want to deploy MetaView SIP Provisioning Server, or MetaView Web and you have Multiple MetaView Servers
- If you have or want to deploy CommPortal Assistant and you have a MetaSphere system residing on Blade Server System or Stackable Server System hardware configurations

Service Federation Capacity

- Up to 10 million residential subscribers or 4M business subscribers

Service Capabilities

- Improve performance for network-wide management – in a distributed management architecture, MetaView Director provides a location database to allow fast location of the master source (e.g. Call Agent, SDC) for key objects, such as subscribers
- Provide crucial information to the network-wide management interface so it can find which underlying MetaView Server is managing a particular subscriber
- Allow the MetaView SIP Provisioning Server to determine which MetaSphere Application Server is serving a particular SIP phone
- Improve scalability of CommPortal Assistant, where MetaView Director's notification service offloads processing from the CommPortal Servers and reduces network traffic
- Centralized notification agent – informs applications when various state changes occur, including call state, call services settings, etc.
- Advanced call routing – central database of location information allows dynamic selection of the correct SIP trunk for routing

Management Systems Supported

- MetaView Explorer – allows the servers and hardware in each MetaSphere System to be grouped and monitored together
- MetaView Web – allows subscribers on any MetaSphere System to be managed from a single web application

Diagnostic Tools Available

- Logs – report on any key events that occur; good starting point in debugging any issues
- DataBase Query Object – located in the object trees under the sources in MetaView Explorer; useful when issues are only affecting a small proportion of the sources