Protect Your Content with a Distributed Disaster Recovery Solution

Broadcast networks and media companies operate multiple content production and distribution sites around the globe. Moving content seamlessly between these sites increases efficiency, lowers operational costs, and enables disaster recovery strategies that support true business continuance. Replicate feature in Oracle DIVAnet allows you to connect a main Oracle DIVArchive system to a disaster recovery Oracle DIVArchive system. Simultaneously, Oracle DIVAnet supports any number of fully independent Oracle DIVArchive content storage management (CSM) systems that are connected together across any type of wide area network (WAN) to form a globally distributed content storage repository.

Enterprisewide Content Federation

Oracle DIVAnet connects any number of independent Oracle DIVArchive CSM while its Replicate feature provides WAN-based content mirroring and distribution across two Oracle DIVArchive systems—main and disaster recovery. In addition, an overall management layer—the Access Gateway feature in Oracle DIVArchive—gives any control system a filtered or federated view of all content contained in the underlying Oracle DIVArchive systems. This federated view removes the complexity of control systems, such as automation or media asset management (MAM) systems, concerned with the specific location of desired content. Instead, the Access Gateway automatically routes commands and requests to the appropriate system. Intelligent command routing, load balancing, global content distribution plans, and an advanced user interface are all part of this enterprisewide federation solution.

Disaster Recovery

The Replicate feature takes content normally ingested and stored at the main site and automatically replicates it to a remotely connected Oracle DIVArchive disaster recovery site. This content replication, in whole or in part, enables a second site to take over broadcast distribution in the event of a failure, a natural disaster, or another catastrophe. Each Oracle DIVArchive site still operates independently. Flexible business rules controlling replication can be configured specifically to meet your exact requirements. For example, the system might be configured to replicate only high-resolution programs during the overnight hours using only a portion of available WAN bandwidth.

ORACLE®
DIVA

Oracle DIVAnet is a component of the Oracle DIVA solution that provides advanced disaster recovery, business continuance, and content distribution solutions for multisite CSM implementations using Oracle DIVArchive products.

MULTISITE MONITORING

Authorized users can monitor all activities of any underlying Oracle DIVArchive system by simply connecting the standard user interface to the Oracle DIVArchive Manager, or they can use the same user interface to monitor global activities by simply connecting to the Access Gateway server. Transactions that span multiple Oracle DIVArchive systems are combined in the user interface for simplicity, especially in very busy systems. Security provisions can limit which content stored at any site can be viewed and controlled by any user or external application—an essential feature when different businesses share common disaster recovery sites.

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Designed with Wide Area Networks in Mind

WAN transfers are more complex than local transfers. Oracle DIVAnet has special features to handle security, variable bandwidth, and resilience to network outages. These include intelligent load balancing between Oracle DIVArchive sites, a central manager to implement global content distribution plans, and global object delete commands to support smooth resumption of operation in the event of connectivity loss.

Content replication commands are tracked through the entire end-to-end copying process, including all intermediary WAN transition stages. If, for any reason, content transfers cannot be completed because of network problems, the content is held in a buffer and transferred as soon as connectivity is restored.

Global object delete requests will likewise be held in a pending state if connectivity is lost between Oracle DIVArchive systems, and then they will be resolved when communication is re-established. All restore operations maintain efficiency and conserve WAN bandwidth by prioritizing locally stored content over remote sites.

Innovative Storage Policy Management

Oracle DIVAnet greatly enhances the functionality of Oracle DIVArchive Storage Plan Manager. You can create rules that control content replication, deletion, and transcoding based on an expanded set of parameters, including content type, location, and age. These functions in Oracle DIVArchive Storage Plan Manager could be set up, for example, to use integrated transcoding to reduce the content bit rate before replication to another site.

Guaranteed Content Replication

Oracle DIVAnet's management functions enable administrators to compare or reconcile the content collections at two independent sites. This allows for resynchronizing sites that might have been disconnected because of WAN outages or scheduled maintenance, or to trigger the first set of transfers upon Oracle DIVAnet installation. During the reconciliation phase, administrators are presented with a recommended set of actions to resolve any discrepancies between systems.

An Enhanced API

Building upon the existing Oracle DIVArchive API, Oracle DIVAnet adds enhanced content storage control functions to networked Oracle DIVArchive systems. Control applications—such as automation and MAM systems—can communicate with local and remote Oracle DIVArchive systems through a single API connection at the Oracle DIVAnet layer with little or no change to their existing integrations with the Oracle DIVArchive API. Advanced site awareness is available via this API, but it is optional in most cases because the Access Gateway automatic command routing can make these decisions, thus relieving the control systems of this burden.

SEAMLESS MIGRATION

Add Oracle DIVAnet to any existing Oracle DIVArchive system without disrupting current operations. External applications using the Oracle DIVArchive API will continue to operate with current functionality until those systems add the new functions.

WIDE AREA NETWORK ACCELERATION

Integration with the ExpeDat WAN Acceleration product from Data Expedition, a file transfer company, gives users of the Oracle DIVArchive solution a WAN acceleration option that is fully managed and supported by Oracle. This is the first direct integration of a WAN acceleration protocol into a CSM solution.

FOR MORE INFORMATION
Contact: 1.800.ORACLE1

Hardware and Software, Engineered to Work Together