

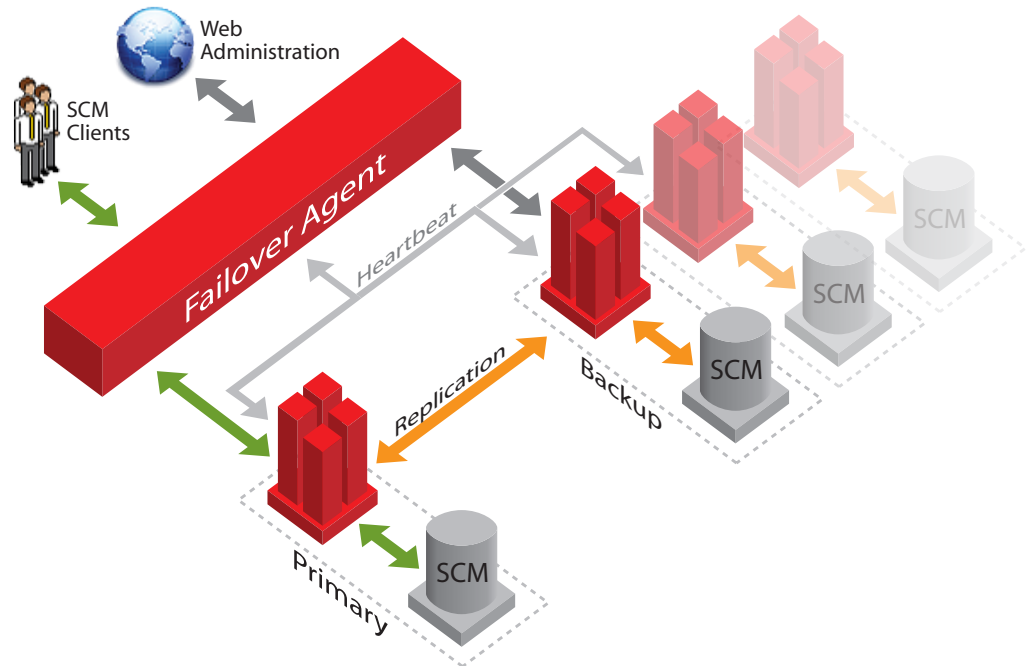
## WANdisco Backup & Recovery:

High Availability,  
Automated Disaster Recovery  
and Continuous Real-time Backup

### Key Features:

- Provides continuous real-time backup of CVS, Subversion, or CVSNT repositories over a LAN or WAN, while making failover and recovery transparent to both users and administrators.
- Meets a recovery point objective (RPO) of zero, so that everything up to the moment of failure is captured and recovered.
- Meets a recovery time objective (RTO) of zero. User access is restored immediately after a server or network failure.
- Provides proactive monitoring capabilities so that critical conditions on the network and servers can be dealt with before problems arise.
- Provides optional integration with archiving solutions to allow source code repositories to be backed up to tape.
- Can be implemented standalone, or in conjunction with WANdisco's multi-site development solutions for CVS, Subversion and CVSNT.
- Minimizes network traffic and bandwidth costs over the WAN.

WANdisco Backup & Recovery is the only high availability and disaster recovery solution available for CVS, Subversion and CVSNT that can meet a recovery point objective (RPO) of zero, as well as a recovery time objective (RTO) of zero. Everything up to the moment of failure is captured and recovered, and user access is restored immediately. This ensures continuous data protection, zero loss of data and no lost development time, while eliminating the risk of human error in a disaster recovery scenario.



WANdisco Backup & Recovery delivers these capabilities over a LAN, or a WAN. If the backup server is remote, WANdisco optimizes WAN performance and minimizes bandwidth usage by leveraging the same capabilities that have been built into the architecture of its multi-site development solutions for CVS, Subversion and CVSNT.

WANdisco Backup & Recovery is implemented as a transparent gateway between clients and the servers. No changes to clients or servers are required. WANdisco Backup & Recovery can be implemented with, or without WANdisco's multi-site development solutions for CVS, Subversion or CVSNT.

## **WANdisco Backup & Recovery Addresses the Three Key Requirements of High Availability:**

### **1. Make recovery fast and seamless**

When the primary server comes back online after an outage, WANdisco Backup & Recovery will bring the primary server up-to-date with any new transactions that were committed to the backup server during the outage. Recovery will happen automatically, without any intervention from an administrator. These self-healing capabilities combined with WANdisco Backup & Recovery's active-active real-time replication capability mean that no data is lost in the event of a network outage or server crash. Everything up to the moment of failure is captured and recovered.

### **2. Make outages and failover transparent to users.**

With WANdisco Backup & Recovery, when the primary server on the LAN fails, clients are dynamically rerouted to the backup server. Automatic failover is triggered by WANdisco Backup & Recovery's Failover Agent, so that a recovery time objective (RTO) of zero can be met without users experiencing any interruption in service. WANdisco Backup & Recovery's administration console also features a pushbutton capability that allows the administrator to switch clients over to a backup server on demand, to allow for maintenance on the primary server. Switchbacks from the backup to the primary server can also be accomplished from the administration console. There is no requirement that the backup server has to be on the same LAN as the primary server. Failover to a backup server over the WAN can also be configured.

### **3. Provide proactive monitoring capabilities that enable IT organizations to address problems before availability is impacted**

WANdisco Backup & Recovery's performance monitor continuously collects information associated with the network and server including current capacity utilization and trends. Critical conditions on the servers are highlighted and network bottlenecks are identified so that corrective action can be taken to avoid problems. Recommendations are made for configuration changes at the server and network levels.

## **Continuous Real-Time Backup and Archive**

WANdisco Backup & Recovery provides transaction-aware continuous real-time backup to ensure that the primary and backup servers are always in sync. WANdisco Backup & Recovery builds on this by providing optional integration with high capacity tape archiving solutions to allow source code repositories to be backed up to tape.

## **System Requirements**

WANdisco Backup & Recovery will run in any J2SE 1.5 or above compliant Java runtime environment. OS support is provided for Windows 2000 and above, Linux 2.6 and above, and all versions of UNIX that support a J2SE 1.5 or above Java runtime environment. All clients are supported for CVS, Subversion and CVSNT.

### **CVS**

#### **Server Versions Supported:**

1.11.x, 1.12.x

### **Subversion**

#### **Server Versions Supported:**

Subversion server versions 1.3 and above are supported.

#### **Backend Support:**

FSFS and BerkeleyDB are supported.

### **CVSNT**

#### **Server Versions Supported:**

CVSNT server versions 2.0.53 and above are supported.

## **WANdisco Backup & Recovery Delivers it All in One Product**

No other solution provides WANdisco Backup & Recovery's support for high availability, disaster recovery and continuous real-time backup over a LAN or a WAN, without requiring other third party hardware and software products, as well as additional staff with the skills to support them.

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