

CAMIO DR User Guide

V5.5.2

May 2025



Chyron CAMIO DR User Guide V5.5.2 December 2024. This document is distributed by Chyron in online (electronic) form only, and is not available for purchase in printed form.

This document is protected under copyright law. An authorized licensee of Chyron CAMIO DR may reproduce this publication for the licensee's own use in learning how to use the software. This document may not be reproduced or distributed, in whole or in part, for commercial purposes, such as selling copies of this document or providing support or educational services to others.

Product specifications are subject to change without notice and this document does not represent a commitment or guarantee on the part of Chyron and associated parties. This product is subject to the terms and conditions of Chyron's software license agreement. The product may only be used in accordance with the license agreement.

Any third-party software mentioned, described or referenced in this guide is the property of its respective owner. Instructions and descriptions of third-party software are for informational purposes only, as related to Chyron products and does not imply ownership, authority or guarantee of any kind by Chyron and associated parties.

This document is supplied as a guide for Chyron CAMIO DR. Reasonable care has been taken in preparing the information it contains. However, this document may contain omissions, technical inaccuracies, or typographical errors. Chyron and associated companies do not accept responsibility of any kind for customers' losses due to the use of this document. Product specifications are subject to change without notice.

Copyright © 2024 Chyron, ChyronHego Corp. and its licensors. All rights reserved.

Table of Contents

- Theory of Operation..... 4
- Requirements.....5
- Installing DR Software.....7
- Installing ViceVersa Pro..... 8
- Installing VVEngine..... 10
- DR Service..... 11
- DR Client..... 11
- Performing Failover..... 13
- Performing Failback..... 14



CAMIO5 DR software can be installed with CAMIO 5 software on CAMIO Core Server (Win2012 and Win2016) platforms. The secondary backup system must be of the same type.

Theory of Operation

DR system consists of a Primary CAMIO, which is normally the active system, and a Secondary CAMIO, which is normally the passive system.

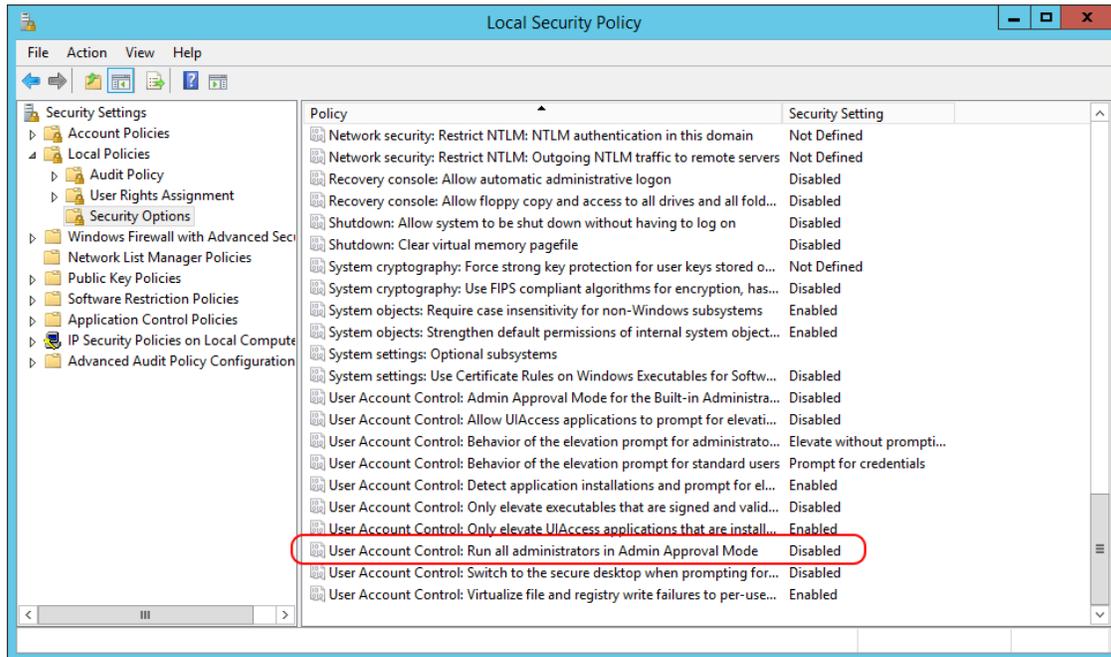
ViceVersa replication software is used to replicate CAMIO data from Primary to Secondary systems

There is no automated replication of data from Secondary to Primary. The manual failback process triggers replication of Secondary to Primary.

Requirements

- Two CAMIO Core Servers or VMs running CAMIO 5.0.1 or higher.
- CAMIO4 DR Software DR_5.0.1.17.msi which is available on the DA server.
- CAMIO License on both servers must have DR enabled..
- ViceVersa Licenses
 - VVPro licenses will be provided for primary and secondary systems
 - VVEngine license will be provided for the primary system.
- If upgrading from older CAMIO DR software make sure to uninstall CAMIO DR from Add/Remove programs..
- If upgrading from older CAMIO DR software check to make sure that **SQL Server (MSSQLSERVER)** is set to Automatic mode in the Service Control Manager.

- Make sure that system “User Account Control: Run All administrators in Admin Approval Mode” setting is disabled.
 - Server Manager > Tools > Local Security Policies > Local Policies > Security Options
 - Requires a system reboot after change.

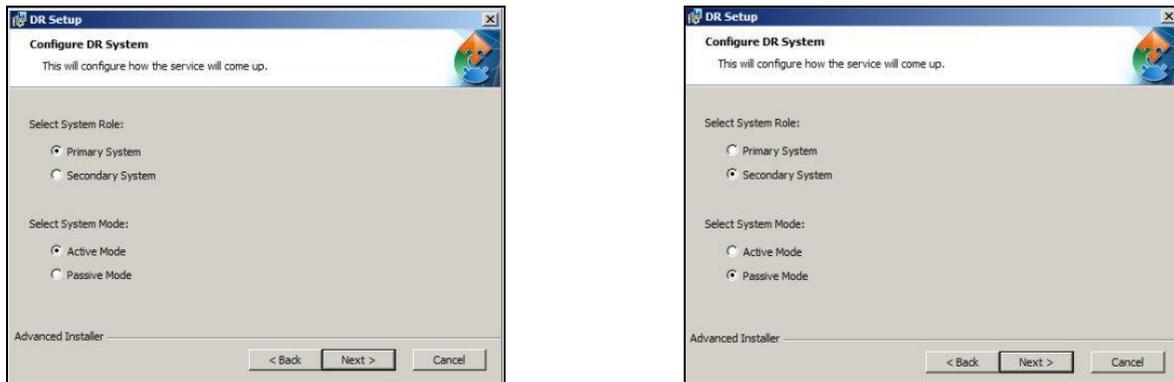


Installing DR Software

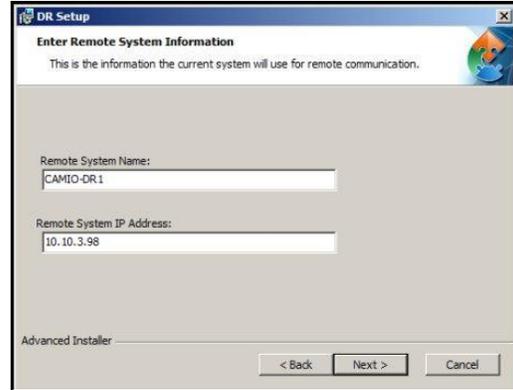
DR Software is installed on both Primary and Secondary systems. The system type is selected during installation.



The **Primary** system should be designated to be run in **Active** mode.
The **Secondary** system should be designated to run in **Passive** mode.

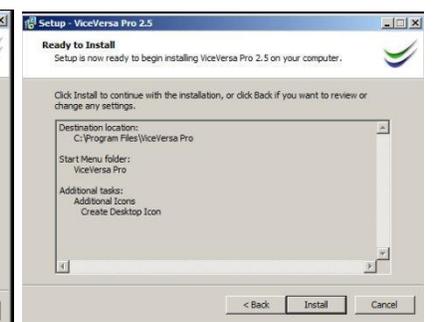
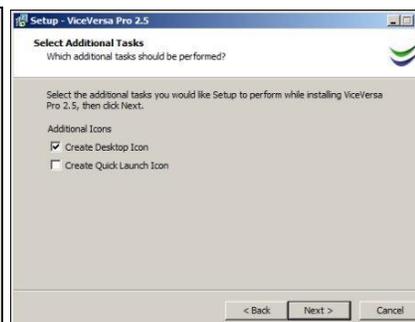
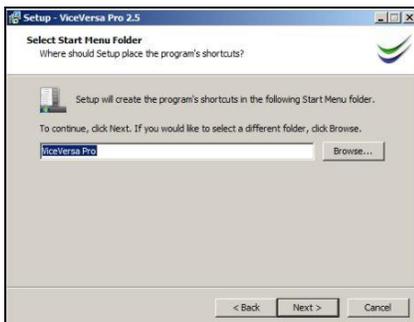
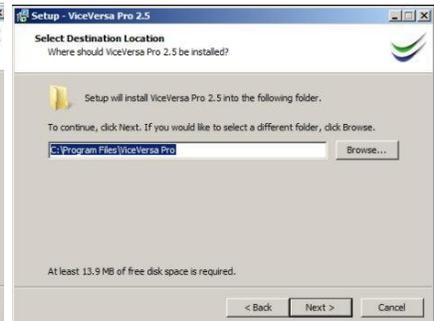
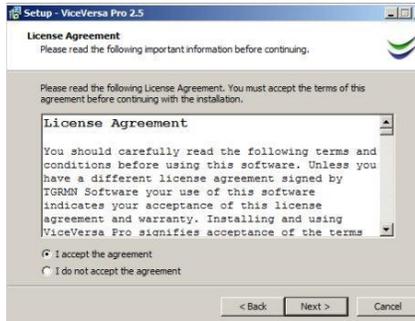


Enter the Virtual IP address to be used. This is the same on both systems.
Enter the hostname and IP address of the remote system. For the primary system that would be the secondary system hostname/IP address, and vice versa.



Installing ViceVersa Pro

VVPro must be installed on the primary and secondary systems.
Accept license agreement and click through installation procedure using default settings.
If there was a previous install of VVPro, it will be stopped, reconfigured and restarted automatically.





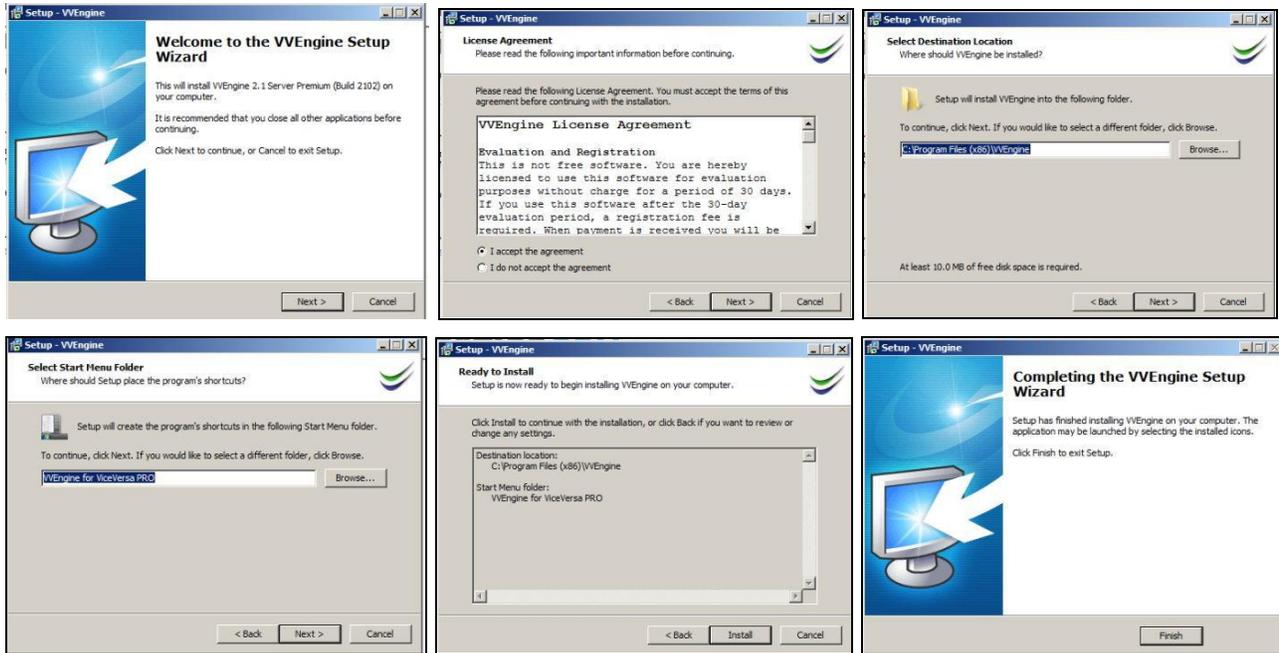
Enter registration key when prompted.

Installing VVEngine

VVEngine must be installed on the Primary System only.

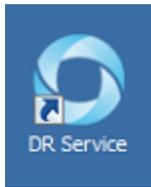
Accept license agreement and click through installation procedure using default settings.

If there was a previous install of VVPro, it will be stopped, reconfigured and restarted automatically.



Enter registration key when prompted.

DR Service



The DR Service is an application that runs from the Startup menu, so will start automatically every time the system is rebooted. It needs to be run manually the first time after installation. Click on the 'DR Service' shortcut on the desktop.

To stop the DR Service for any reason, right click on the DR icon in the service tray and click on 'Exit'. There is usually no reason to stop the DR Service.



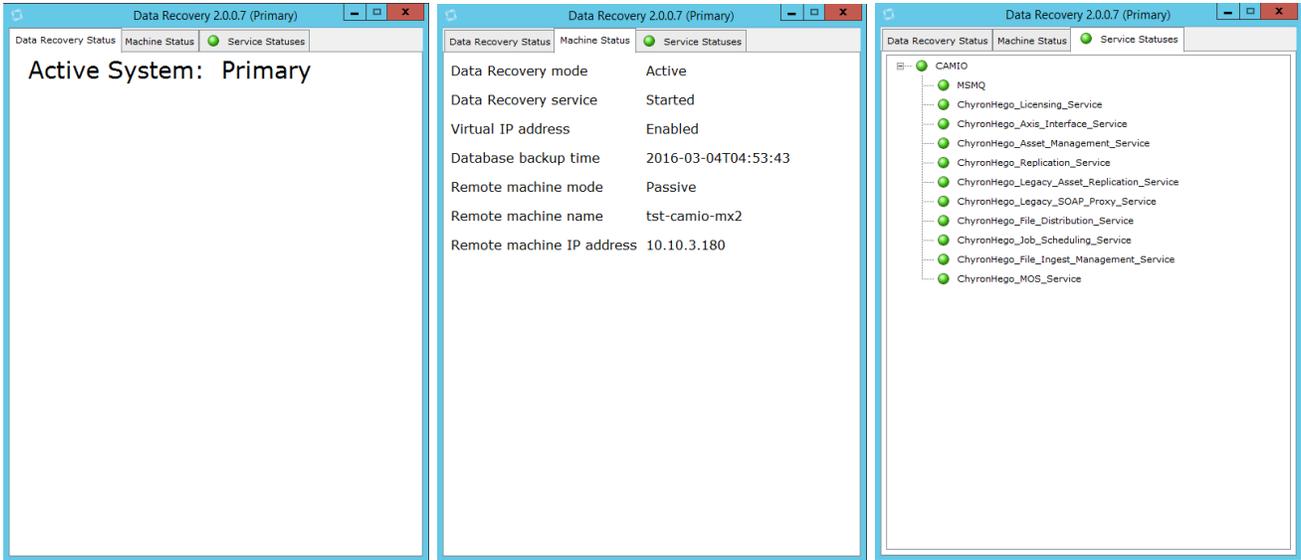
DR Client



The DR Client is the user interface for DR. It can be run by clicking the 'DR Client' shortcut on the desktop. .

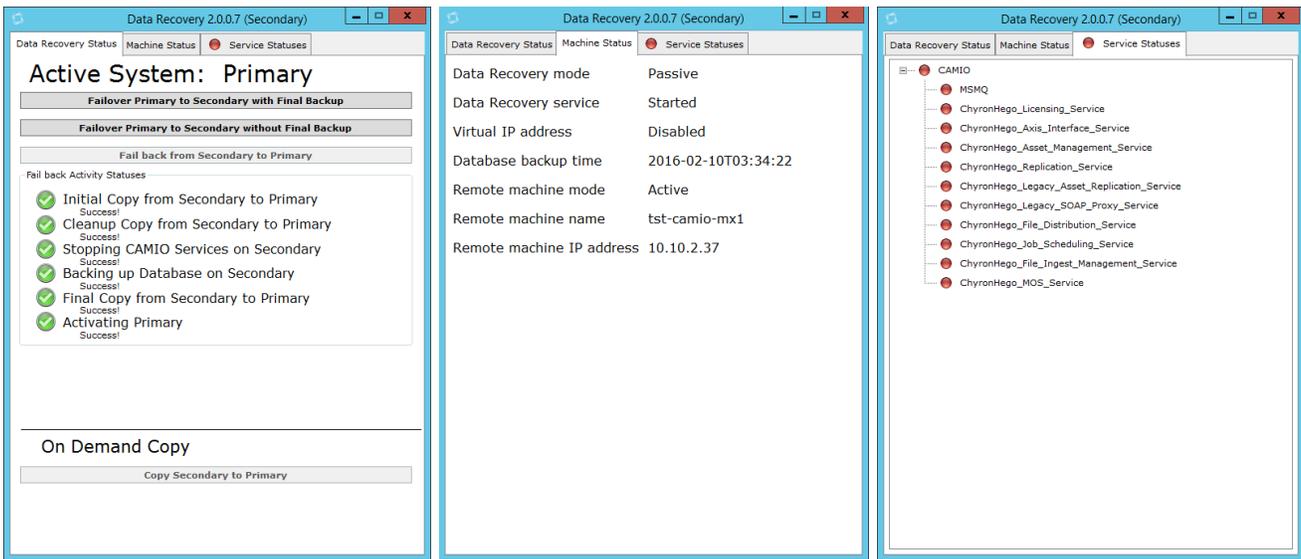
CAMIO4DR Primary System Client display during normal operation. It shows that

- the Primary system is active
- Virtual IP is enabled on the Primary System
- Secondary system is in Passive mode and communicating with the Primary.

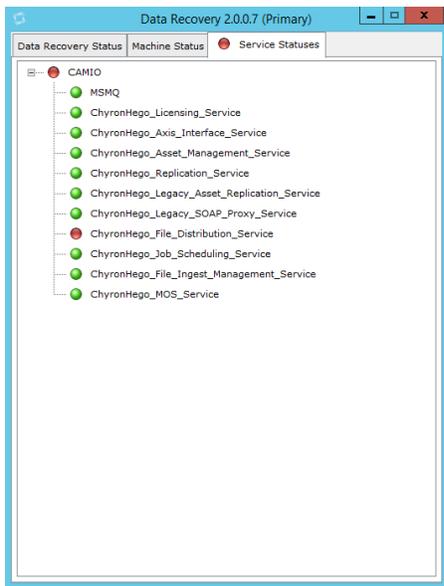


CAMIO4DR Secondary System Client display during normal operation. It shows that

- The Primary system is active
- Status of the last failover or failback process
- Virtual IP is not enabled on the Secondary System
- Primary system is in Active mode and communicating with the Secondary.

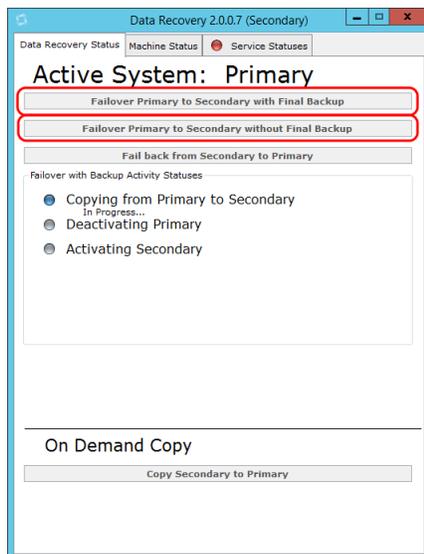


User interface on primary system showing one of the services disabled. These errors are not visible from the secondary system.



Performing Failover

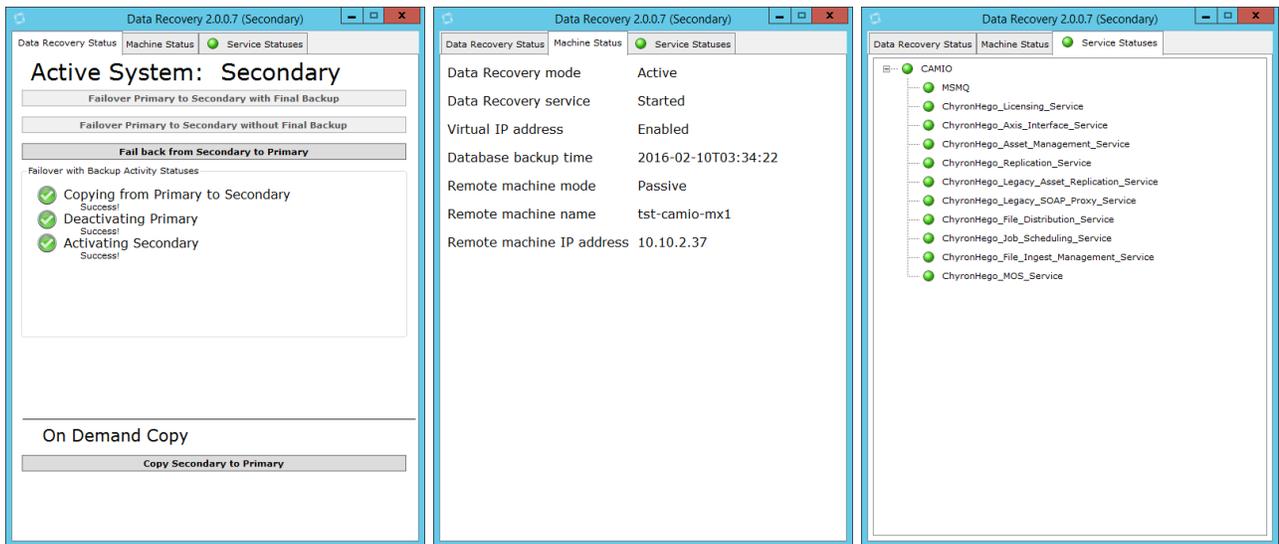
Failover from Primary to Secondary is initiated from the Secondary system.



If the primary system is offline or otherwise not functional, you should press “Failover Primary to Secondary without Final Backup”. This will do the failover with the last backup saved.

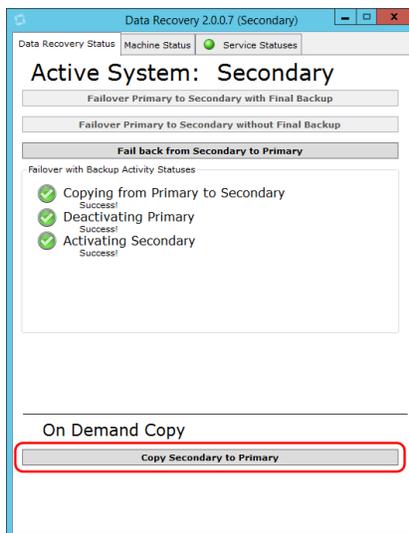
If the primary system is still mostly functional, you should press “Failover Primary to Secondary with Final Backup”. You will see ViceVersa on the Primary system making a final backup prior to failover. The Final Backup ensures you have the most up-to-date data.

Once the failover is complete, the secondary system will show as being active. The primary system will be passive.



Performing Failback

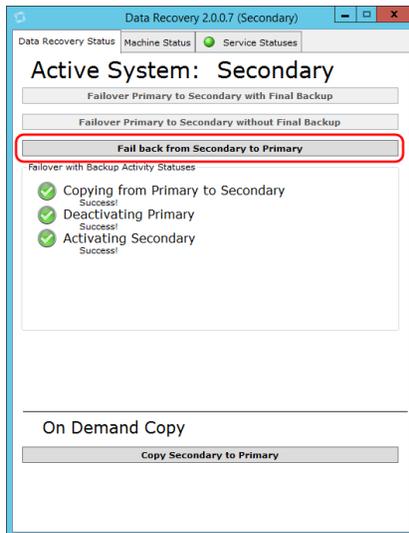
Failback is the process of returning from the Secondary to the Primary systems. Failback is initiated from the Secondary system. The first step of failback is to resync the Primary's data.



IMPORTANT NOTE:

- The Primary system must be brought in sync with all the data on the Secondary system prior to being made active.
- There are no automated backups made from Secondary to Primary while in failover mode.
- It is also possible that the failed Primary system was replaced with a new system that is totally empty.

If you expect the data replication to take a very long time, it might be a good idea to do an 'On Demand Copy'. This will resync the primary to the secondary but not do a failback. For instance, an On Demand Copy could be run unsupervised overnight. The failback can then be done at a later time when the proper personnel are available.



Clicking on 'Failback from Secondary to Primary' will start the failback process. This is a 4 step process.

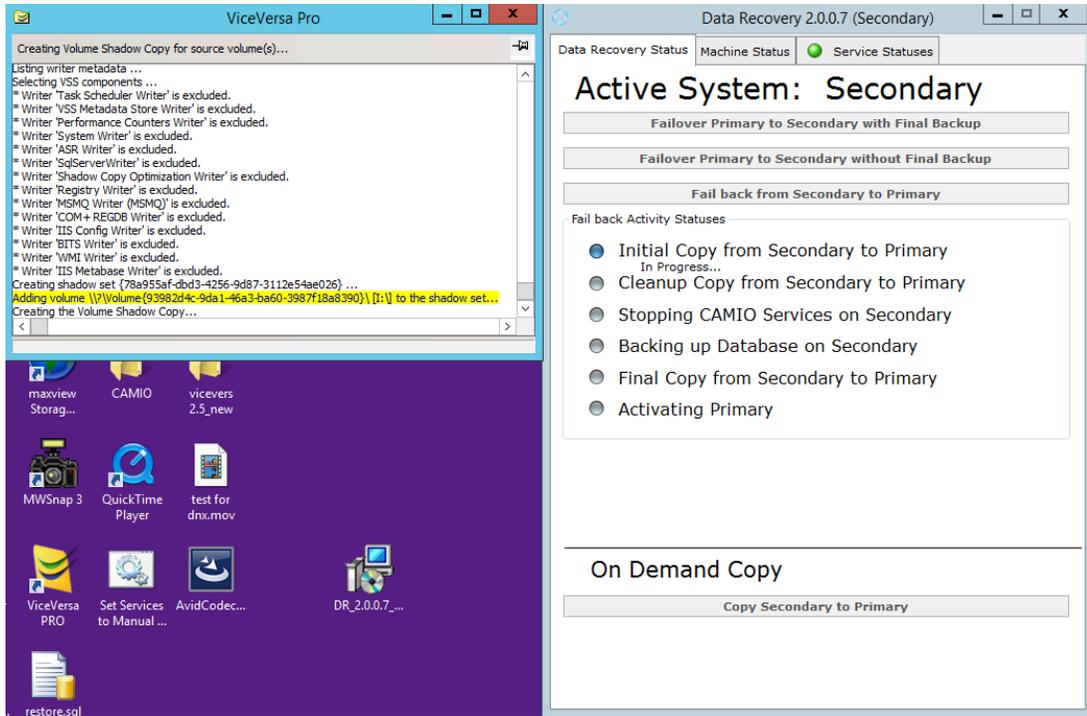
Initial Copy: takes a snapshot and replicates all data from Secondary to Primary. Secondary system is active during this time.

Cleanup Copy: Since the initial copy can take a long time, a second snapshot and replication process is performed to transfer any changes that occurred during the Initial Copy. Secondary system is still active during this time.

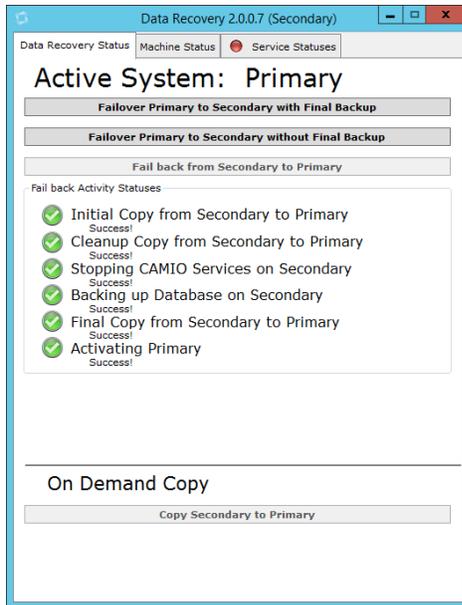
Final Copy: At this point CAMIO Services are shut down on the Secondary System, a backup is made of the database and there is a final copy of changes made to the Primary system.

Failback: After the Final Copy, the Virtual IP is transferred from the Secondary to Primary system, and the CAMIO Services are started up on the Primary.

The DR Client UI will track the process of Failback. ViceVersa dialogs will show the data being backed up and transferred.



When complete the Secondary UI will show the following...



ABOUT US

Chyron is ushering in the next generation of storytelling in the digital age. Founded in 1966, the company pioneered broadcast titling and graphics systems. With a strong foundation built on over 50 years of innovation and efficiency, the name Chyron is synonymous with broadcast graphics. Chyron continues that legacy as a global leader focused on customer-centric broadcast solutions. Today, the company offers production professionals the industry's most comprehensive software portfolio for designing, sharing, and playing live graphics to air with ease. Chyron products are increasingly deployed to empower OTA & OTT workflows and deliver richer, more immersive experiences for audiences and sports fans in the arena, at home, or on the go.

CONTACT SALES

EMEA • North America • Latin America • Asia/Pacific
+1.631.845.2000 • sales@chyron.com

