ixia
A Keysight Business

Converting XGS2-SD and XGS12-SD Chassis to Native IxOS

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Notices

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Documentation conventions

The following documentation conventions are used in this guide:

Describing interactions with the UI

You can interact with products by using different input methods: keyboard, mouse, touch, and more. So in most parts of the user documentation, generic verbs have been used that work with any input method. In cases where input-neutral verbs do not work, mouse-specific verbs are used as the first choice, followed by touch-specific verbs as the second choice.

See the following table for examples on how you can interpret the different input methods.

Input-neutral	Mouse	Touch
Select **Modify**.	Click **Modify**.	Tap **Modify**.
Select **Accounts** > **Other accounts** > **Add an account**.	Click **Accounts** > **Other accounts** > **Add an account**.	Tap **Accounts** > **Other accounts** > **Add an account**.
To open the document in Outline view, select **View** > **Outline**.	To open the document in Outline view, click **View** > **Outline**.	To open the document in Outline view, tap **View** > **Outline**.
Select **Protocols**.	Click the **Protocols** tab.	Tap **Protocols**.
-NA-	Double-click the **Client** wizard.	Double-tap the **Client** wizard.
Open the **Packages** context menu.	Right-click **Packages** to open the shortcut menu.	Long tap **Packages** to open the shortcut menu.

Deprecated words

The following words have been replaced with new words, considering the audience profile, our modern approach to voice and style, and our emphasis to use input-neutral terms that support all input methods.

Old usage...	New usage...
shortcut menu, right-click menu	context menu
click, right-click	select
drag and drop	drag

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About This Guide

This guide explains how to convert your existing XGS12-SD and XGS2-SD chassis running on Windows Operating System, to Native IxOS.
This conversion also involves moving the user data to the new Native IxOS.

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CHAPTER 1 Prerequisites

Before converting to Native IxOS, you need to do the following:

- Deactivate Licenses from Windows Chassis
- Copy Useful Information
- Verify Load Modules

Deactivate Licenses from Windows Chassis

Ixia Registration Utility (IRU) works with Registration Codes for products installed before 2016. If you have IRU licenses, perform the following steps:
If you have the new Ixia Licensing Utility (ILU) licenses installed, just perform step 3.

1. Connect to the chassis by opening a remote desktop connection to the chassis address.
2. Migrate IRU to ILU. You need to download and install the latest version of License Server from http://support.ixiacom.com/support-overview/product-support/downloads-updates/versions/33011.
   ILU works with Activation Codes for products installed in 2016 and comes with IxOS 8.01 EA and later releases of IxOS.
   For details, see the *IRU to ILU Migration* section of the *Ixia Licensing Management Guide* - https://support.ixiacom.com/user-guide/license-management.
3. Using the ILU, deactivate all your licenses from the Windows Chassis and save your receipt file to store all activation codes. Move a copy of this receipt file to an external location.
   See also *Deactivate Licenses* section of the *Ixia Licensing Management Guide*.

Note: After you convert the chassis to Native IxOS, activate the licenses again. See also Activate Licenses.

Copy Useful Information

Any other useful information stored on the windows-based chassis becomes inaccessible when you convert to Native IxOS. So it should be copied externally.

Note: Reverting to Windows will install a factory default Windows operating system image on the chassis.

Verify Load Modules

Verify the list of Ixia Load Modules that are supported on the new Native IxOS by using the Ixia Product Compatibility Matrix.
https://support.ixiacom.com/support-overview/product-support/product-compatibility-matrix/.

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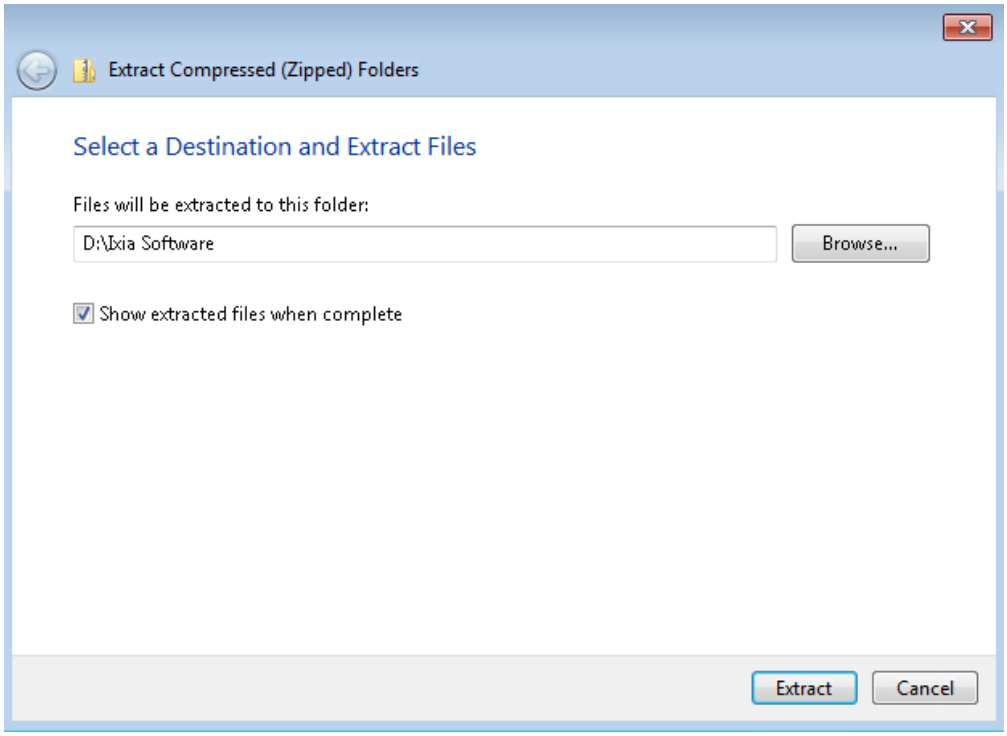
CHAPTER 2 Convert Chassis to Native IxOS

To convert your existing XGS2-SD or XGS12-SD chassis to Native IxOS, do the following:

1. Download the **SD_Installer_Native-IxOS-Conversion-x.x.x.x-x.x.x.x.sh.zip** archive from the Ixia website and copy it to the location **D:\Ixia Software** of the chassis.
2. Extract the archive in the same location.

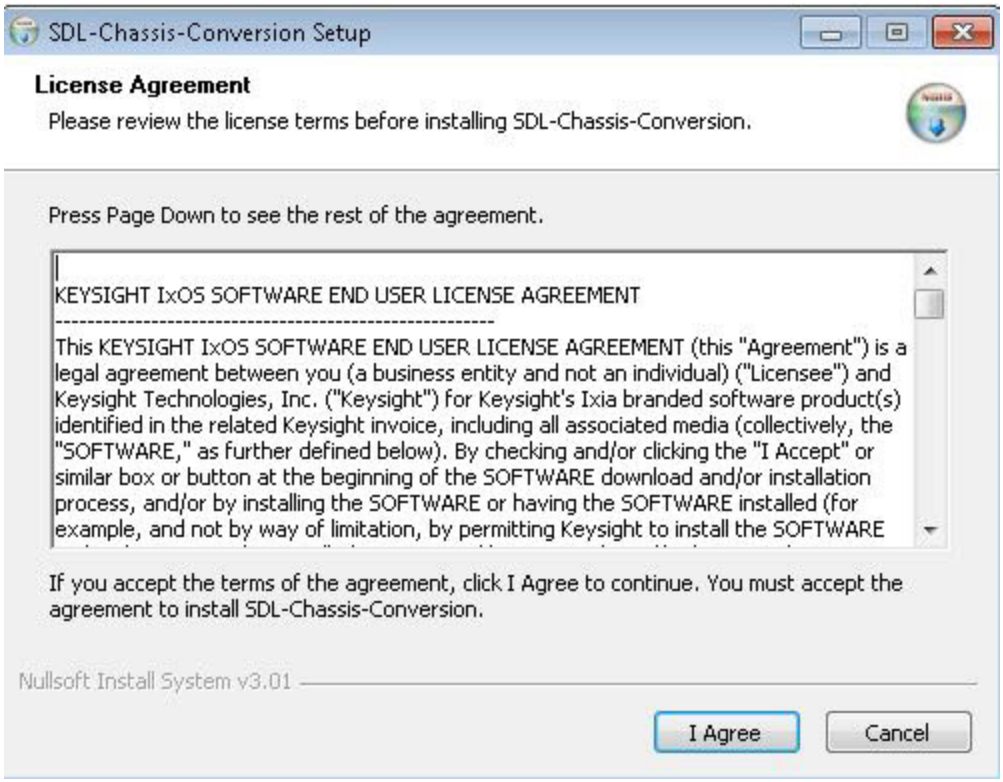


Note:
On Windows 7, due to a Microsoft known issue, the conversion script cannot be extracted successfully with Microsoft native utility.

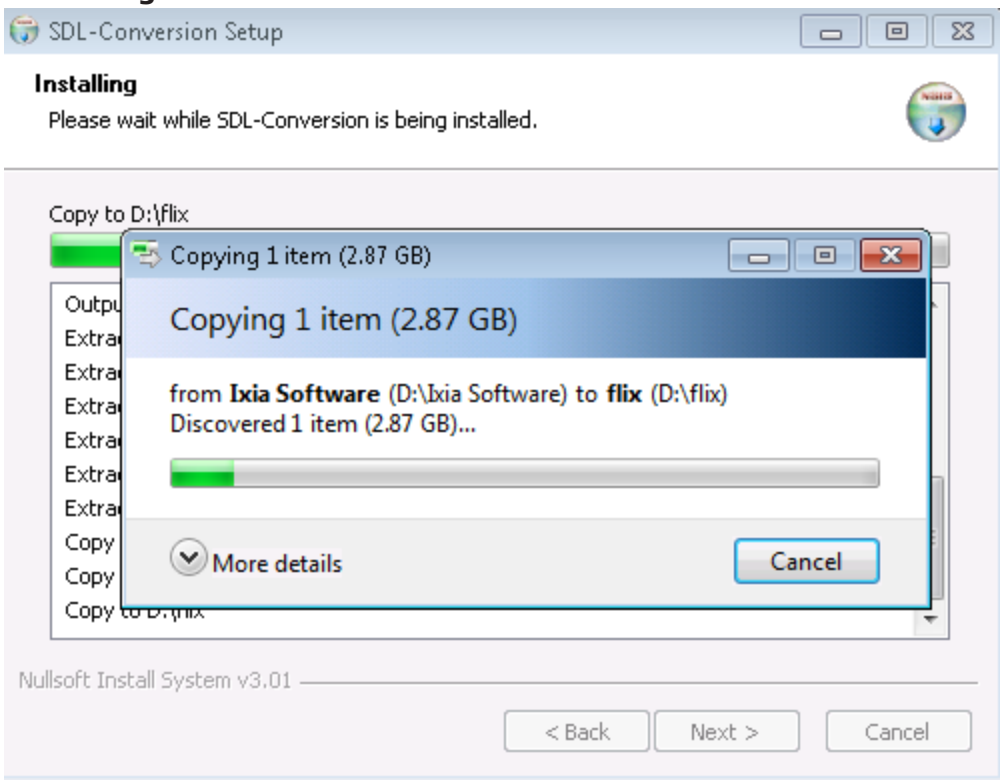
For more information, see: https://answers.microsoft.com/en-us/windows/forum/all/windows-extracts-a-3gb-file-to-734-million-gb/8194bc2a-b19b-4e33-ae8e-ed4a293092e9

You need to extract the .zip file on Windows 10, or use a third party tool.

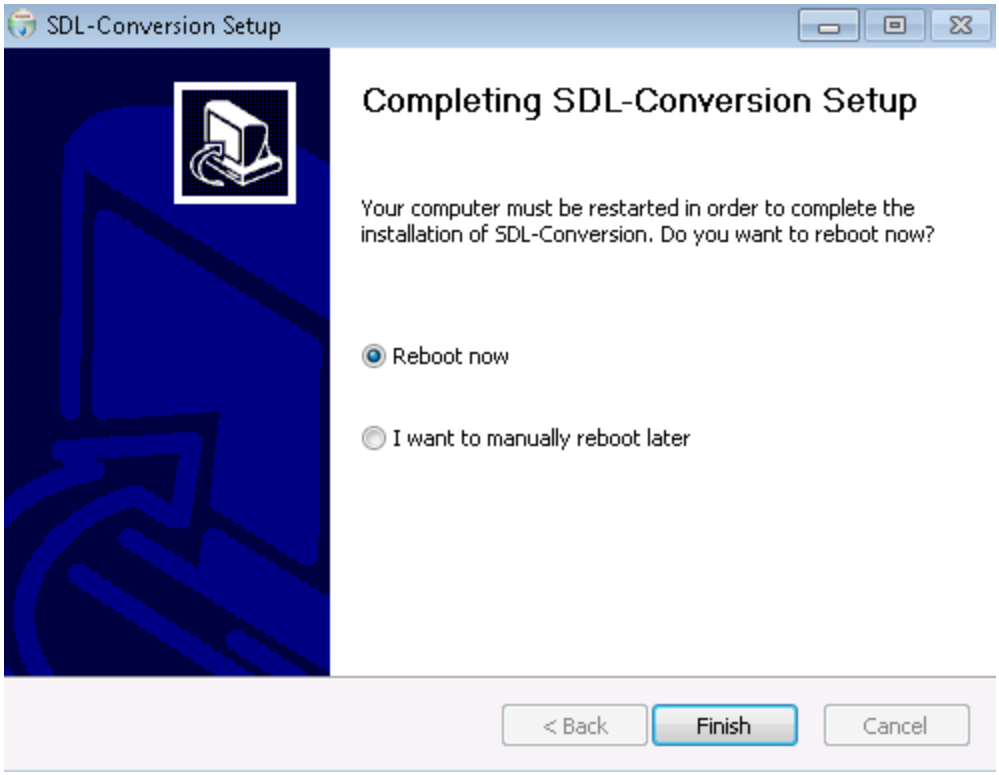
3. Run the installer file **SDL-Chassis-Conversion.exe** by double-clicking it. The **License Agreement** window appears.



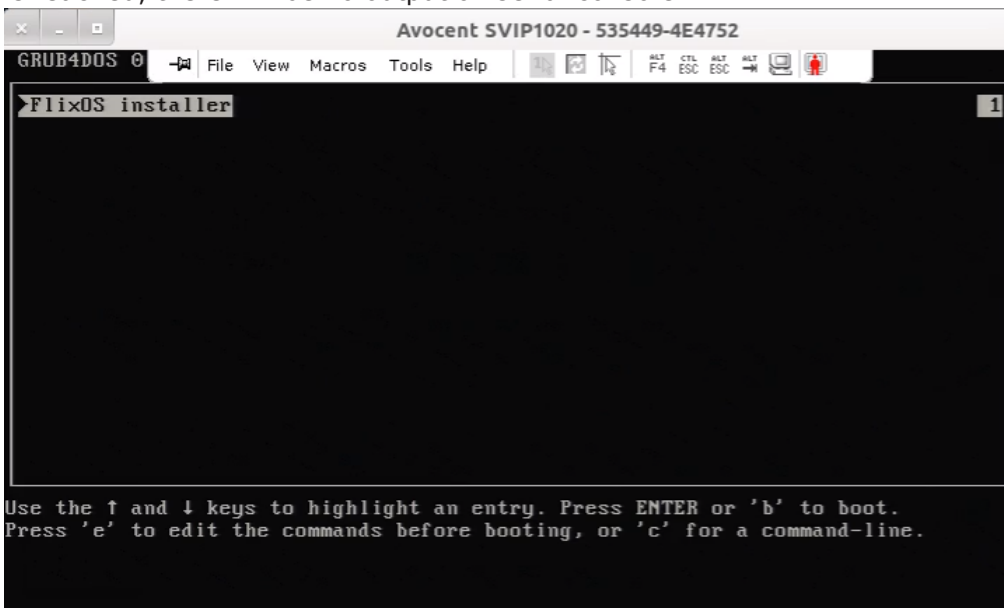
4. Select **I Agree**. The installation of the SDL-Conversion starts.



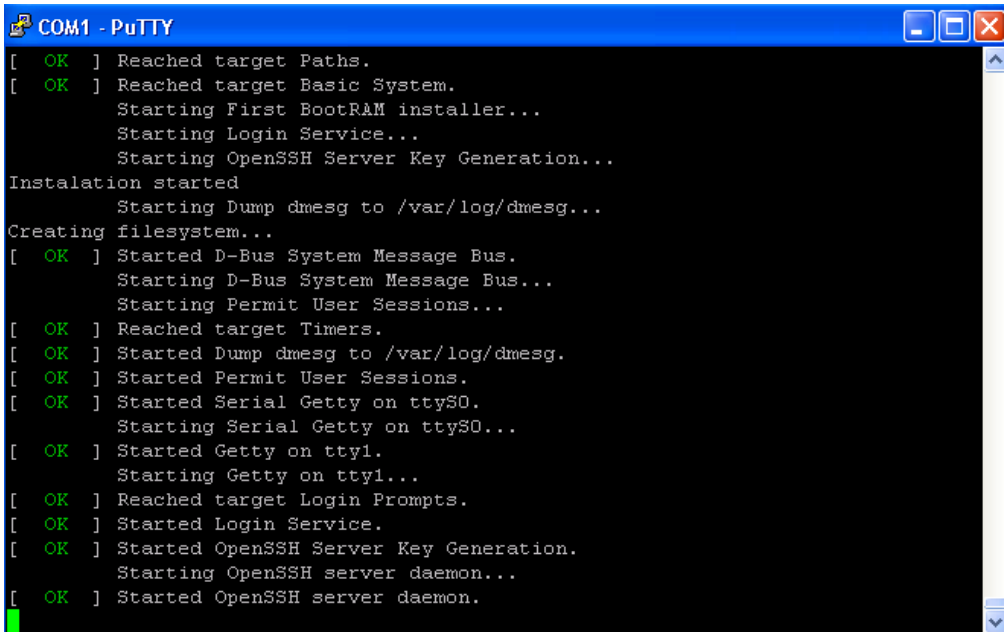
5. After the installation is complete, select **Reboot now**, and then select **Finish**. This reboots your computer.



6. Connect to your chassis through your monitor and keyboard using the VGA and USB ports provided.
   You can also connect via RS-232 serial port using speed=115200, word=8, parity=no.
   The following output is seen only when you connect via VGA. For about 2-5 minutes, until step 7 is reached, there will be no output on serial console.



7. The system will boot in RAM disk and start the conversion script. This process takes about 25 to 30 minutes.



8. When the conversion is completed, the chassis reboots automatically.
9. After the chassis reboots, using SSH, log in to Native IxOS chassis with username/password as admin/admin on port 8022. After logging in, you will see the progress and logs printed on screen.
10. When logs stop printing, press any key to see the login prompt. You need to log in again and this time you should see a login banner.
    You can also access the chassis using the web interface: *https://<Chassis_IP>:443*.
11. Activate the licenses again. See also *Activate Licenses* section of the *Ixia Licensing Management Guide*.

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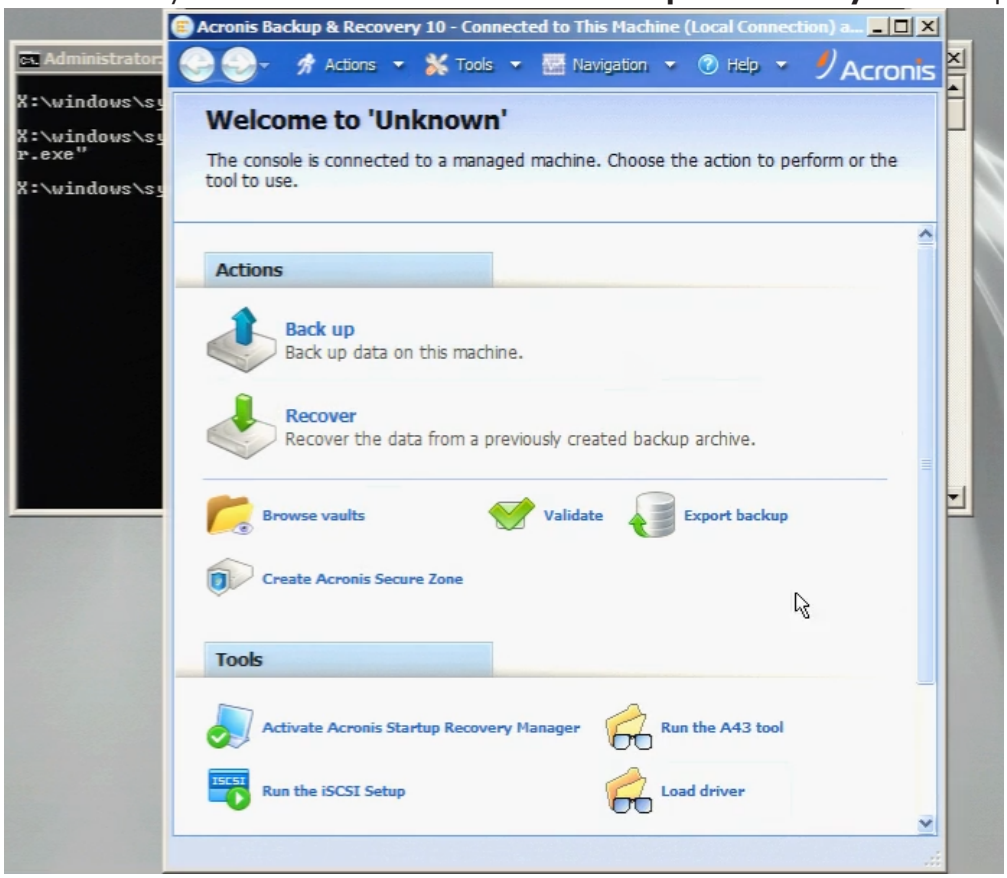
CHAPTER 3 Restore to Windows Chassis

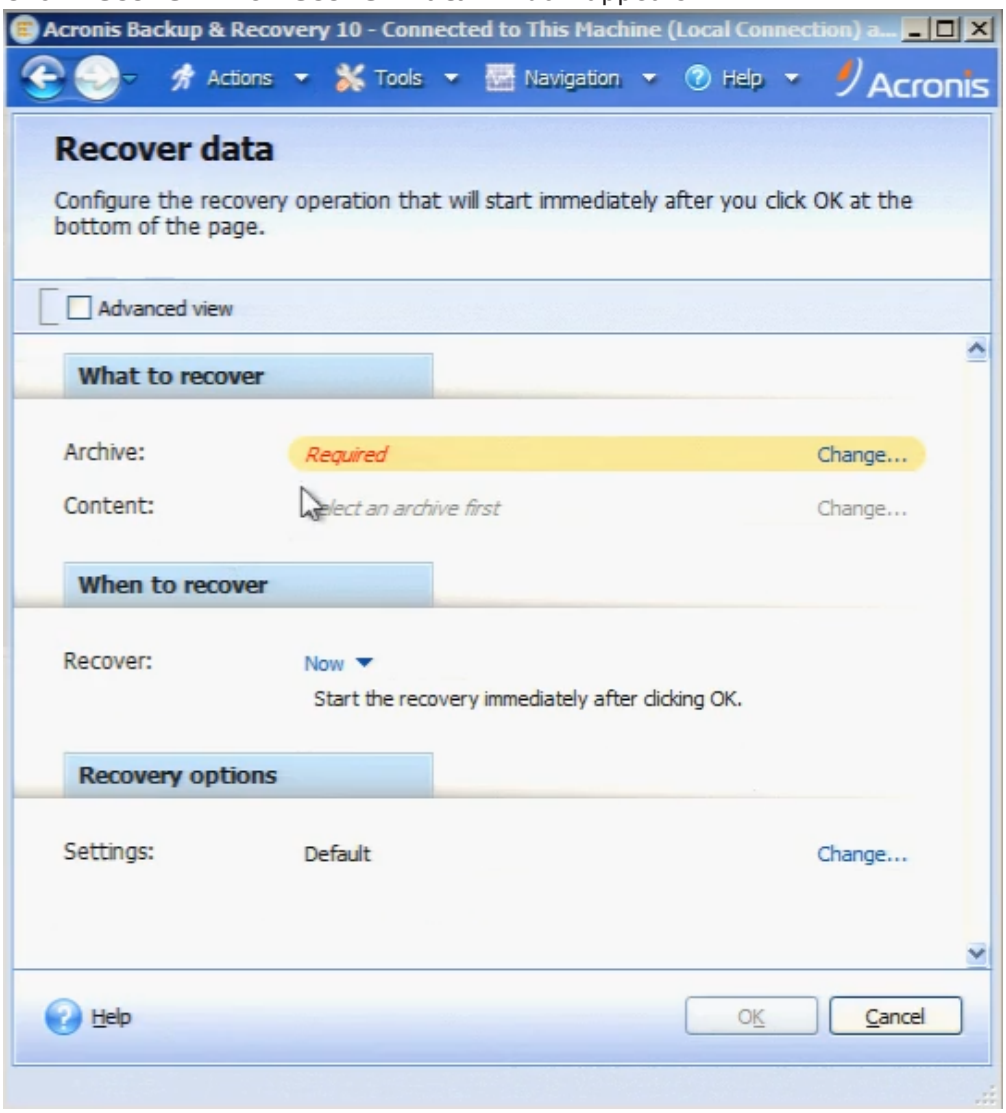
You can convert your chassis from Native IxOS back to Windows OS.
Using the ILU, deactivate all your licenses from the chassis running Native IxOS and save your receipt file to store all activation codes. Move a copy of this receipt file to an external location. After you have reverted your chassis back to Windows, you need to activate the licenses again.

To convert your SDL chassis, do the following:

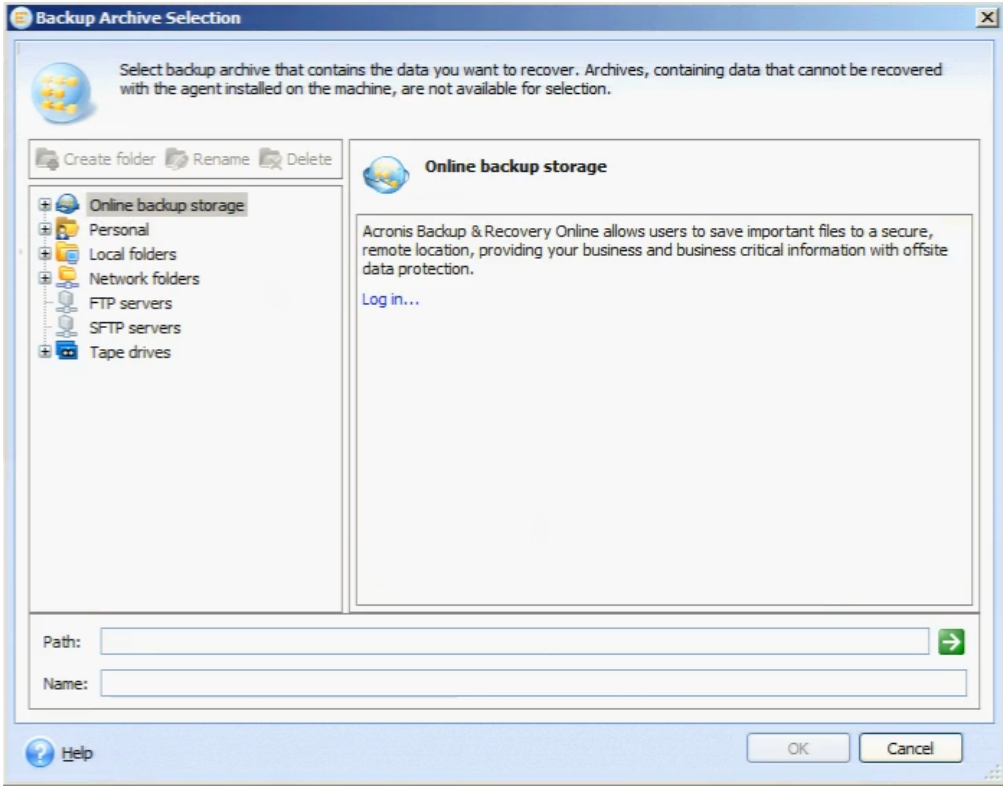
1. Connect to the chassis by opening SSH client to the IP address of the chassis and port 8022, using the user *admin* and password *admin*.
2. On the Command Line Interface, type the command restore-to windows-chassis. This closes the IxOS application, does a cleanup of the files that remain after the installation and shuts down XGS-SDL chassis.
3. Reboot the system from KVM. The **Acronis Backup & Recovery** window appears.



4. Click **Recover**. The **Recover Data** window appears.

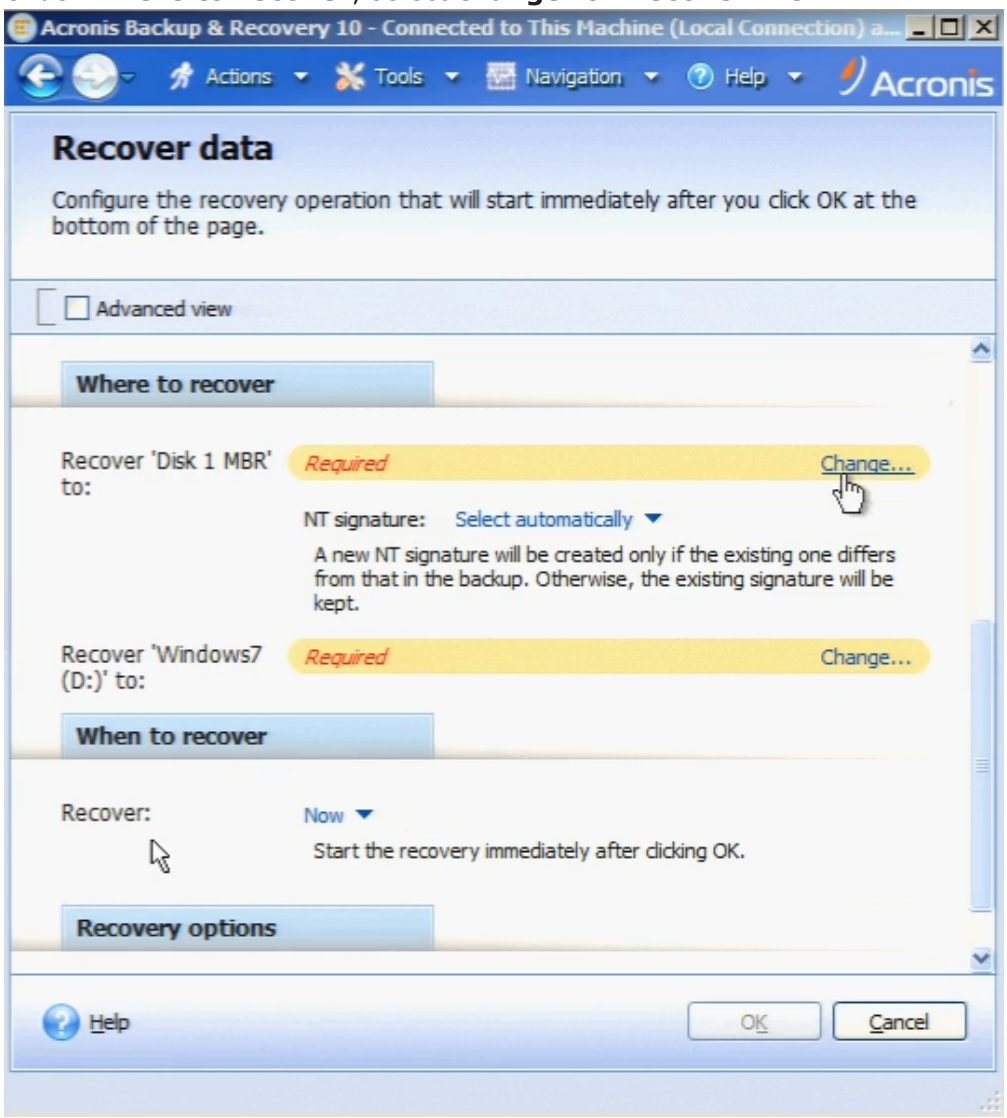


5. Under **What to recover**, select **Change**. The **Backup Archive Selection** window appears.

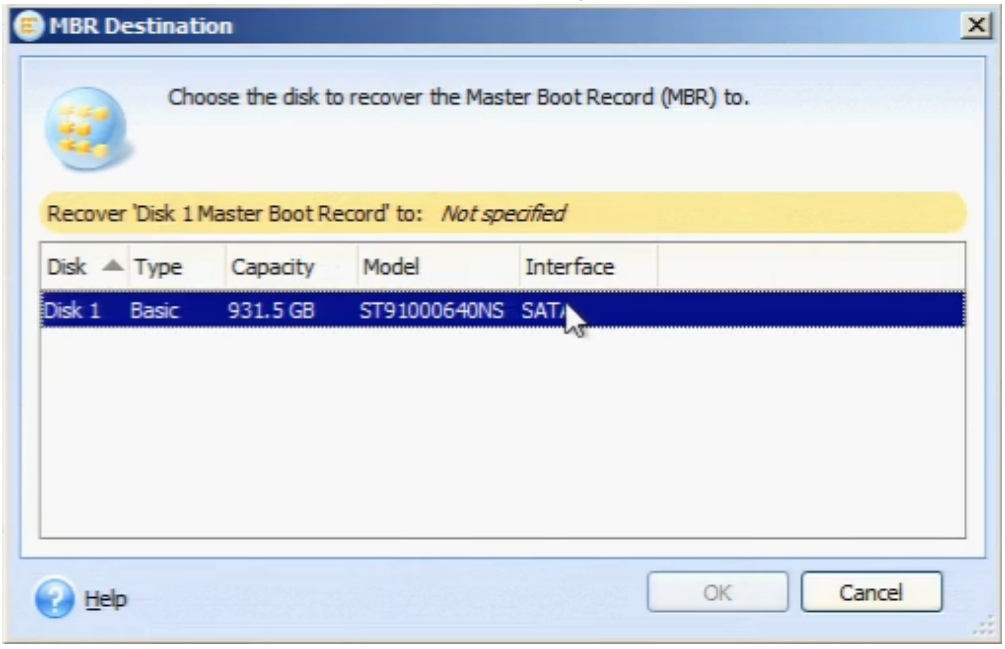


6. Browse to **Local Folders\Recovery** where a backup of the Windows Chassis is available. Since there can be multiple backups available, choose the one with the latest timestamp and select **OK**.

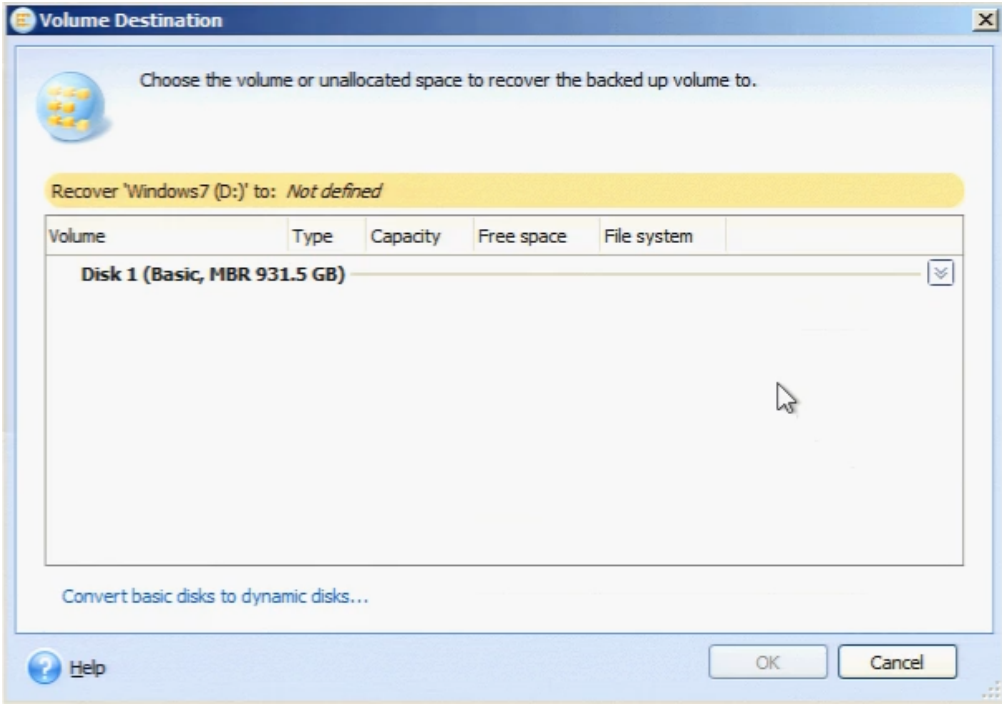
7. Under **Where to recover**, select **change for Recover Disk MBR**.



8. In the **MIBR Destination** window, select the disk to which the master boot record is to be recovered, and then select **OK** to save changes and close the window.

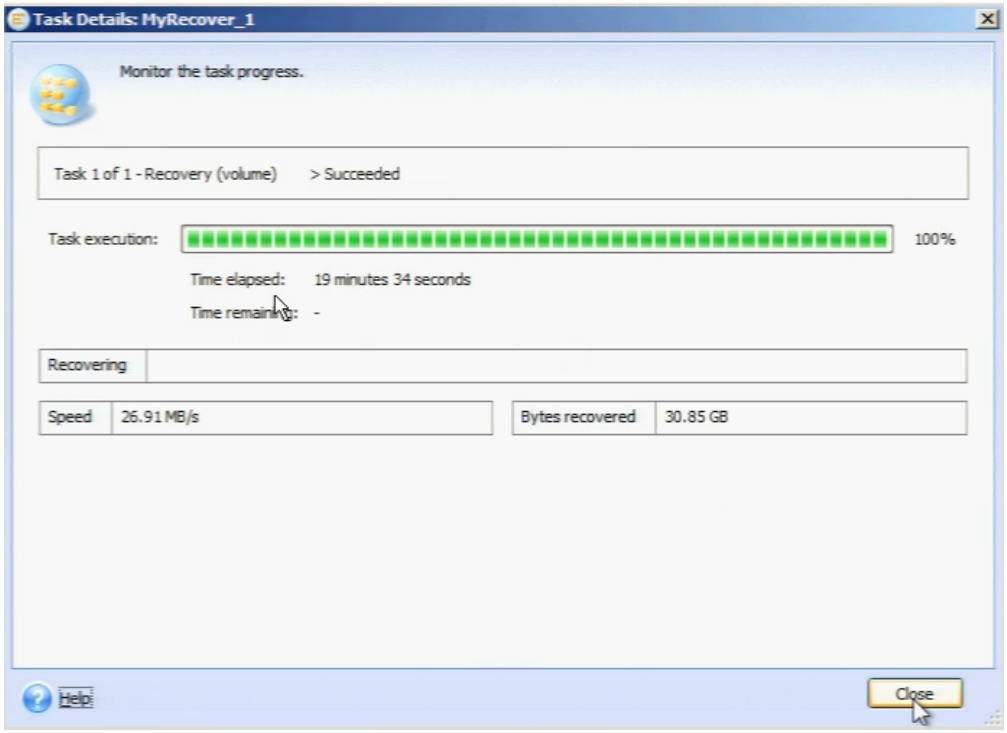


9. Under **Where to recover**, select **change for Recover Windows**. The **Volume Destination** window appears.



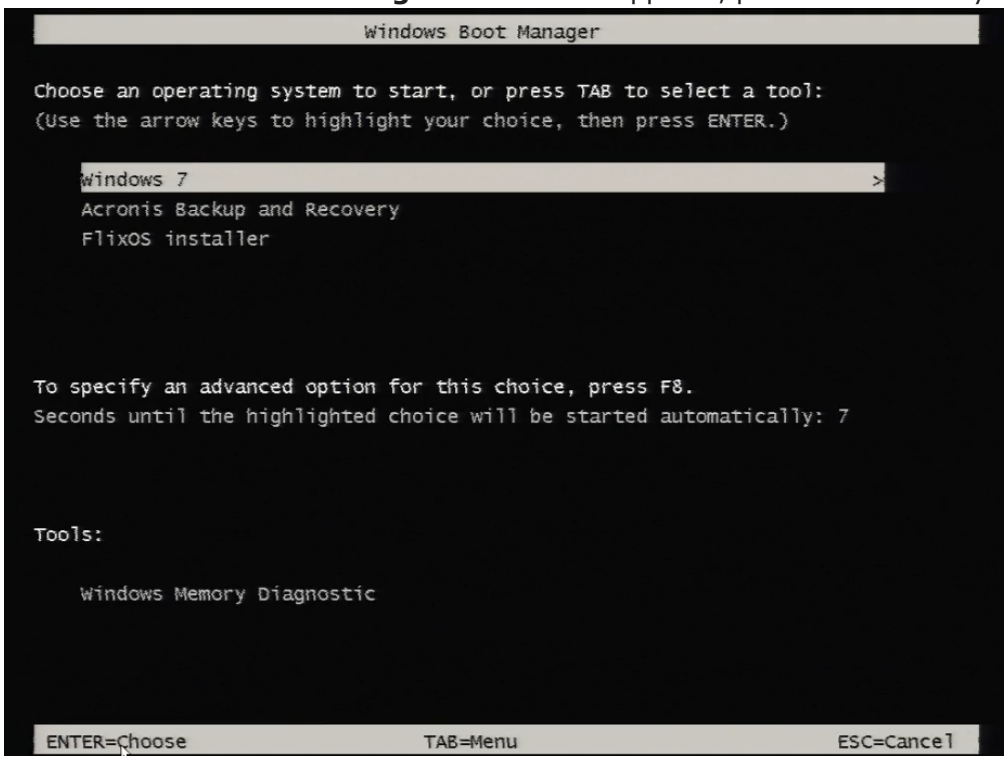
10. Select Expand Icon to see the available options. Select the unallocated space to which the backed up volume is to be recovered.
11. Select **OK** to save changes and close the window.

12. In the **Recover Data** window, scroll down further and select **OK** to start the recovery process.
13. Wait for the task execution to reach 100 percent. Click **Close** after Recover status is set to **>Succeeded**.



14. In the **Recover Data** window, select **Actions**, and then select **Exit**.

15. In the **Windows Boot Manager** window that appears, press the Enter key to start Windows 7.



16. You need to reactivate the IxOS, IxNetwork and IxLoad licenses used on Native IxOS machine after the revert process.
    The chassis is in brand new state. You can now proceed with installing Ixia applications that you need on this chassis.

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