

# Server Appliances PegasusPro R8 Product Manual

Version 1.0

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#### Recommendations

In this *Product Manual*, the appearance of products made by other companies, including but not limited to software, servers, and disk drives, is for the purpose of illustration and explanation only. PROMISE Technology does not recommend, endorse, prefer, or support any product made by another manufacturer.

# About this guide

This *Product Manual* describes how to setup, use, and maintain the PegasusPro R8. It also describes how to use the PROMISE Utility Pro software that you install and run on your computer, as well as how to perform advanced system management using the web-based user interface, WebPAM InSight.

This manual is written specifically for the PegasusPro R8.

This manual includes a full table of contents, chapter task lists, and numerous cross-references to help you find the specific information you are looking for.

Also included are four levels of notices:



#### Note

A *Note* provides helpful information such as hints or alternative ways of doing a task.



### **Important**

An *Important* notice calls attention to an essential step or point required to complete a task. Important items include things often missed.



### **CAUTION**

A *Caution* informs you of possible equipment damage or loss of data and how to avoid them.



### WARNING

A *Warning* notifies you of probable equipment damage or loss of data, or the possibility of physical injury, and how to avoid them.

### Regulatory compliance identification numbers

For the purpose of regulatory compliance certifications and identification, this product has been assigned a unique regulatory model number. The regulatory model number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to this regulatory model number. The regulatory model number is not the marketing name or model number of the product.

### **Compliance information**

Global notice for Class A equipment

Operation of this equipment in a residential environment could cause radio interference.

### **Federal Communications Commission notice**

### **Class A equipment**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions regarding this FCC SDoC, contact us by mail or telephone:

- PROMISE TECHNOLOGY USA
- 3241 Keller St., Santa Clara CA 95054, USA
- Email: sales@promise.com

For questions regarding this product, go to the PROMISE TECHNOLOGY INC. Support Center Website: http://www.promise.com

### Canada (Avis Canadian)

### Class A equipment

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. CAN ICES-3(A)/NMB-3(A)

Cet appareil numérique de la class A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.CAN ICES-3(A)/NMB-3(A)

### **European Union Regulatory Notice**

### Class A device

A device that is marketed for use in a commercial, industrial or business environment.

A 'Class A' device should not be marketed for use by the general public .



### **WARNING**

Operation of this equipment in a residential environment could cause radio interference.

### **Safety precautions**

Retain and follow all product safety and operating instructions. Always refer to the documentation (printed or electronic) supplied with your product. If there is a conflict between this document and the product documentation, the product documentation takes precedence. Observe all warnings on the product and in the operating instructions to reduce the risk of bodily injury, electric shock, fire, and damage to the equipment.

To reduce the risk of personal injury or damage to the product:

- Place the product away from radiators, heat registers, stoves, amplifiers, or other products that produce heat.
- Never use the product in a wet location.
- Avoid inserting foreign objects through openings in the product.
- Move products with casters carefully. Avoid quick stops and uneven surfaces.

The installation and maintenance of products must be carried out by qualified personnel.

If the product sustains damage requiring service, disconnect the product from all power sources and refer servicing to a PROMISE TECHNOLOGY INC. authorized service provider. Examples of damage requiring service include:

- The power cord, extension cord, or plug has been damaged.
- Liquid has been spilled on the product or an object has fallen into the product.
- The product has been exposed to rain or water.
- The product has been dropped or damaged.
- The product does not operate normally when you follow the operating instructions.

### **Precautions for power products**

#### Power cords

To reduce the risk of electric shock or damage to the equipment:

 Use an approved power cord. If you have questions about the type of power cord to use, contact your PROMISE TECHNOLOGY INC. authorized service provider.

- If you have not been provided with a power cord for your product or for any AC-powered option intended for your product, purchase a power cord that is approved for use in your country.
- You must use a power cord rated for your product and for the voltage and current marked on the electrical ratings label of the product. The voltage and current rating of the cord must be greater than the voltage and current rating marked on the product.
- Do not place objects on AC power cords or cables. Arrange them so that no one may accidentally step on or trip over them.
- Do not pull on a cord or cable. When unplugging from the electrical outlet, grasp the cord by the plug.
- Make sure that the total ampere rating of all products plugged into an extension cord or power strip does not exceed 80 percent of the ampere ratings limit for the extension cord or power strip.

### Precautions for maintaining and servicing products

To reduce the risk of electric shock or damage to the equipment when installing, maintaining, or servicing products, observe the following precautions:

- Some products contain power supplies that are capable of producing hazardous energy levels. Refer to the documentation included with your product to determine whether it contains these power supplies. The installation of internal options and routine maintenance and service of this product should be performed by individuals who are knowledgeable about the procedures, precautions, and hazards associated with equipment containing hazardous energy levels.
- Allow the product to cool before removing covers and touching internal components.
- Do not use conductive tools that could bridge live parts.
- Remove all watches, rings, or loose jewelry when working in hot-plug areas of an energized server, storage, networking, or rack product.
- Some products have covers or doors to access hot-plug components and may allow access to hazardous energy circuits or moving fans.
- The doors should remain locked during normal operation.

### OR

- The server, storage, networking, or rack product should be installed in a controlled access location where only qualified personnel have access.
- Power down the equipment and disconnect all power cords before removing any access covers for non-hot-plug areas.
- Do not replace non-hot-plug components while power is applied to the product. First, shut down the product and disconnect all power cords.
- Do not exceed the level of repair specified in the procedures in the product documentation.
   All troubleshooting and repair procedures are detailed to allow only subassembly or
   module-level repair. Because of the complexity of the individual boards and subassemblies,
   do not attempt to make repairs at the component level or to make modifications to any
   printed wiring board. Improper repairs can create a safety hazard.



### WARNING

Hazardous moving parts. Keep away from moving fan blades. To reduce the risk of injury from a hot component, allow the surface to cool before touching.

### **Batteries**



### WARNING

Some PROMISE TECHNOLOGY INC. products may contain internal replaceable battery cells or battery packs. There is risk of fire, burns, or explosion if the battery pack is not handled properly. To reduce the risk of personal injury:

- Do not attempt to recharge the battery.
- Do not disassemble, crush, puncture, short external contacts, or dispose of the battery in fire or water.
- Replace only with the PROMISE TECHNOLOGY INC. spare battery designated for this product. Dispose of used batteries according to the manufacturer's instructions and local disposal requirements.
- For battery holders (for example, coin cells), observe the correct polarity when changing the battery/cell. There is a danger of explosion if the battery is installed incorrectly.

### **WEEE Information**

For EU (European Union) member users:

According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste.

Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country.

For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.



### **CAUTION**



The electronic components within the PegasusPro R8 are sensitive to damage from Electro-Static Discharge (ESD). Observe appropriate precautions at all times when handling the PegasusPro R8 or its subassemblies.

ABOUT THIS GUIDE		
Introduction	1	
Packing List	1	
Specifications	2	
Hardware	3	
FRONT PANEL		
REAR PANEL		
Installation and Setup	5	
Unpacking	6	
SUMMARY OF THE SETUP PROCEDURE	6	
1 Download Software and Driver	6	
2 Install PegasusPro Driver	7	
Install Driver on Mac	7	
Install Driver on Windows	9	
3 INSTALL PROMISE UTILTY PRO	10	
Install Utility on Mac	10	
Install Utility on Windows	12	
4 CONNECT POWER AND POWER ON	13	
5 Connect Thunderbolt™ 3 (Private Port)	14	
6 Connect 10G Network (Share Port)	15	
7 CONNECT 1G NETWORK WEBPAM INSIGHT MANAGEMENT	16	
HDD REPLACEMENT	17	
REMOVING THE DRIVE CARRIER	17	
Installing 3.5" Disk Drive in the Carrier	18	
Using PROMISE Utility Pro	19	
PROMISE UTILITY Pro	20	
FIRST TIME SETUP	20	
MEMBERS FIRST TIME USING PROMISE UTILITY PRO ON MAC	24	
MEMBERS FIRST TIME USING PROMISE UTILITY PRO ON WINDOWS	27	
Adding a folder with PROMISE Utility Pro	30	
USING FILEBOOST	32	
USING WEBPAM INSIGHT	35	
Accessing WebPAM Insight		
PERUSING WEBPAM INSIGHT GUI	37	

Dashboard	38
Member and Group Management	39
Creating a New Member Account	40
DELETING AN EXISTING ACCOUNT	41
Creating a New Member Group	42
Adding Members to a Group.	43
NETWORK MANAGEMENT	44
NETWORK INTERFACE BONDING	45
Types of Network Bonding	45
TEAM FOLDERS	46
Creating a New Team Folder	47
REMOVING A TEAM FOLDER	47
Adding Members to a Team Folder	48
Editing/Deleting Members and Permission Settings	49
Device Information	50
DEVICE INFORMATION	50
Device Settings	51
Device Health	52
Physical Drive Status	53
Administration	54
EVENTS LOG	54
FIRMWARE UPDATE	54
IMPORT/EXPORT SETTINGS FILES	54
Service	55
Рготосоь	55
REGISTRATION	55
CONFIGURING A NEW STORAGE VOLUME	56
CONTACTING TECHNICAL SUPPORT	EG
LIMITATIONS	
RMA Methods	
LIMITED WARRANTY	
DISCLAIMER OF OTHER WARRANTIES	
Your Responsibilities	
RETURNING THE PRODUCT FOR REPAIR	

# **INTRODUCTION**

This chapter covers the following topics:

- "Packing List"
- · "Specifications"
- "Hardware"
  - "Front Panel"
  - "Rear Panel"

# **Packing List**

Check the shipping package to make sure you have the following items:

- PegasusPro R8 (includes 8 hard disk drives installed in drive carriers)
- One power cord (1.5 meter)
- Thunderbolt™ 3 cable
- Quick Start Guide

# **Specifications**

Interface		
Thunderbolt Ports	2 Thunderbolt™ 3 ports	
LAN Ports	Four 10 GbE ports (Base-T or SFP)	
USB Ports	USB 2.0*2 / USB 3.2*4	
Network	1 GbE RJ-45*2	
Form Factor		
СРИ	Intel CPU i5-8500.3.0 GHz.9M Cache.65W.6 Cores	
Memory	32GB UDIMM DDR4 (2 x 16GB) up to 64GB	
Memory Slot	2 x Long-DIMM DDR4	
Drives	The PegasusPro is shipped with eight 3.5 inch 7200 rpm SATA Hard Disk Drive (HDD) Modules mounted in the drive bays.	
Drive Support	3.5" & 2.5" ( SATA 6Gb/s) HDD/SSD	
RAID	RAID level support: RAID 0, 1, 5, 6	
OS Support	macOS 10.15 or newer, Windows 10 or newer	

System		
Power supply	100 ~ 240V AC, 60 ~ 50Hz, 8A Max, 350W	
System Fan	System fan: 2700RPM.12V	
Hardware monitoring	Temperature, Enclosure, Physical drives, Logical drives, RAID controller	
Temperature	Operating: 5° ~ 35° C Non-operating: -40° ~ 70° C	
Humidity	Operating: 10% ~ 95% non-condensing Storage: 5% - 95% non-condensing	
Dimensions	310 mm x 187 mm x 245 mm	
Weight	15.58 Kg with HDD installed	
Certification	CB, CE, FCC, ICES-003, EMI Class A	

### **Hardware**

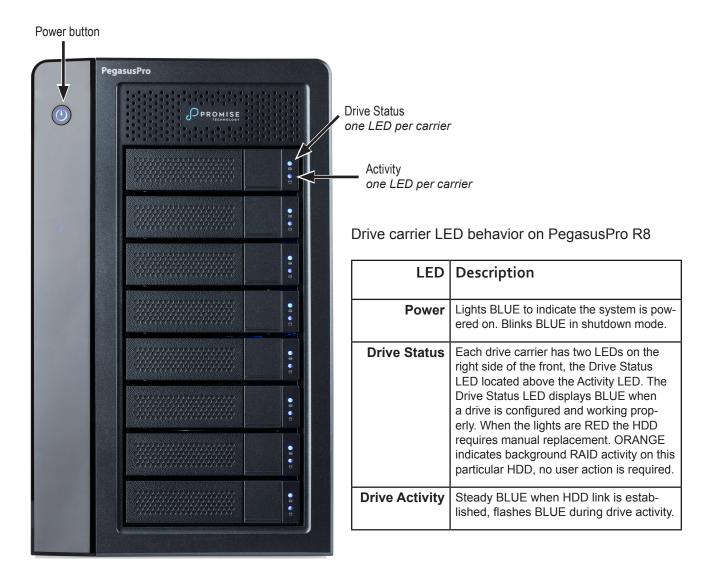
The following section provides a summary of the front and back panel hardware features of PegasusPro R8.

### **Front Panel**

The front panel of PegasusPro R8 enclosures provide access to drives carriers. Defective drives can be replaced without interruption of data availability to the host computer. If so configured, a hot spare drive will automatically replace a failed drive, securing the fault-tolerant integrity of the logical drive. The self-contained hardware-based RAID logical drive in the PegasusPro R8 provides maximum performance in a compact external enclosure.

The PegasusPro R8 system power button located on the front includes the Power status LED.

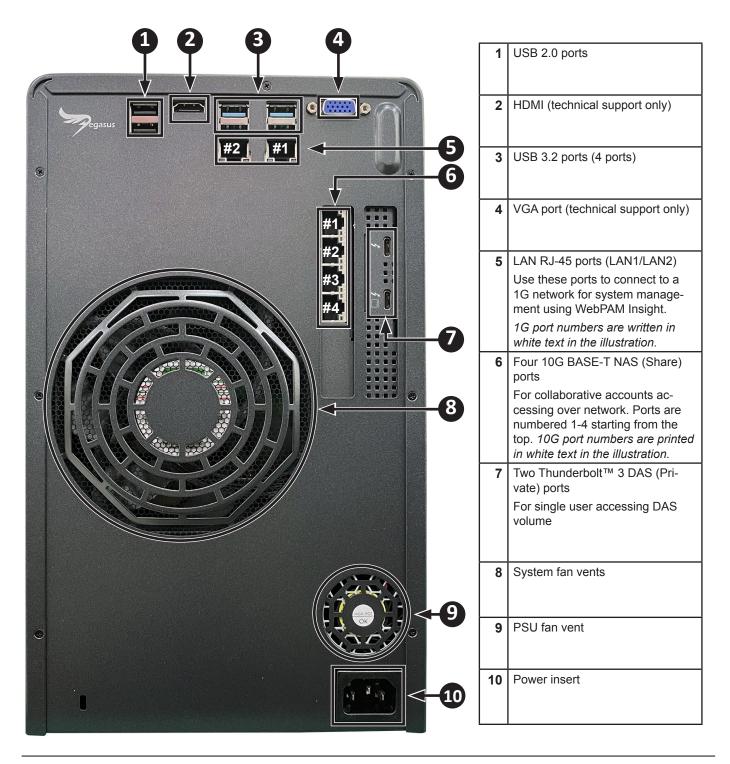
### PegasusPro R8 Front Panel



### **Rear Panel**

The rear panel of the PegasusPro R8 enclosure provides access to the power supply, Thunderbolt™ 3 DAS (Private) ports, 10G NAS (Share) ports, VGA and HDMI video monitor connections, 1G Ethernet ports for device management over the local network, and USB 3.2 ports.

### PegasusPro R8 Rear Panel



# Installation and Setup

This chapter contains the following topics:

- · "Unpacking"
- "1 Download Software and Driver"
- "2 Install PegasusPro Driver on your Mac"
- "3 Install PROMISE Utilty Pro on your Mac"
- "4 Connect Power and power on"
- "5 Connect Thunderbolt™ 3 (Private Port)"
- "6 Connect 10G Network (Share Port)"



### **CAUTION**



The electronic components within the PegasusPro unit are sensitive to damage from Electro-Static Discharge (ESD). Observe appropriate precautions at all times when handling the PegasusPro unit or its subassemblies.



### **CAUTION**

Make sure to protect the PegasusPro from dust, moisture, extreme temperatures and sudden large changes in temperature at all times, even if the unit is not installed.

# **Unpacking**

Carefully remove contents of shipping package, unpack the device and shipped components from the protective packaging. The equipment contained in the shipment is sensitive to electrostatic discharge.

The PegasusPro is shipped with eight hard disk drives (HDD) installed in drive carriers, so the unit is heavy. Be careful handling it and taking it out of the packaging.

# Summary of the setup procedure

The setup procedure for the PegasusPro is simple and easy. The device is shipped with hard disk drives installed and a RAID array configured, so it is just necessary to plug it in and connect the device. However, you should install the PROMISE Utility Pro software used for monitoring and administration of the system. Mac users, please follow the setup procedure here or in the Quick Start Guide.

The setup process is summarized below.

- Download the latest PegasusPro hardware drivers on Mac computer connected via
   Thunderbolt™ 3 DAS (Private) interface, in particular for the host Mac computer used for setup;
   download and install the latest software package including PROMISE Utility Pro (download these
   from PROMISE website) on the host Mac computer and any users that will use PegasusPro via
   the 10G Ethernet (Public) interface.
- 2. Install the PegasusPro Driver
- 3. Install PROMISE Utility Pro.
- 4. Connect the power cord and power on the PegasusPro R8.
- 5. Connect the PegasusPro Private Port to your computer with a Thunderbolt™ 3 cable.
- 6. Connect the PegasusPro Share Port to the network.

### 1 Download Software and Driver

Make sure to download and install the hardware drivers for the PegasusPro before you connect the Thunderbolt™ 3 cable.

Go to promise.com > Products > Pegasus > PegasusPro > Download > Drivers

Then download and install PROMISE Utility Pro on the host Mac computer and collaborative user computers. The software download files are the same for all computers that will use the PegasusPro.

Go to promise.com > Products > Pegasus > PegasusPro > Download > Utilities

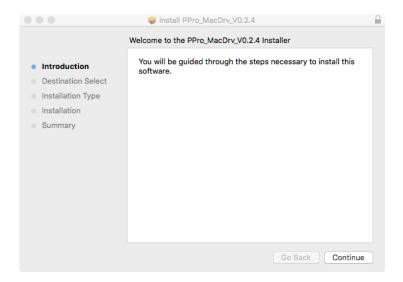
# 2 Install PegasusPro Driver

If PegasusPro is connected to a Thunderbolt port on your computer, a PROMISE PegasusPro Driver should be installed and loaded before you using PegasusPro on Mac or Windows system. Follow instructions for your OS in the wizard to install the PROMISE Pegasus Driver. The final step will be to restart the computer in order to complete the installation.

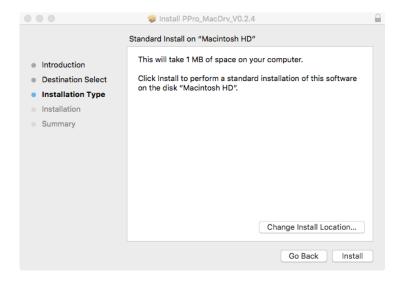
### **Install Driver on Mac**

Follow the instructions below for Mac users. Windows users skip ahead for instructions for WIndows.

1. Double-click the PKG file for installing the driver. The Installer appears. Click **Continue** to begin the installation.



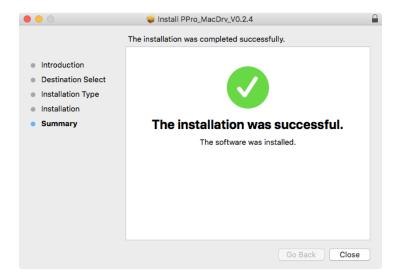
2. Click **Install** to perform a standard installation.



3. Type the administrator password of your computer and click **Install Software**.



4. Click **Continue Installation** to confirm you want to continue with the installation. It will be necessary to restart your computer.



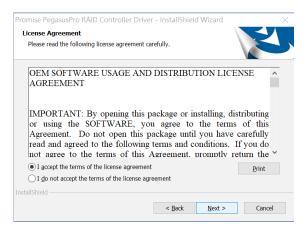
### **Install Driver on Windows**

Download the latest PROMISE Pegasus Driver for Windows, and follow these steps to install the driver on a Windows computer.

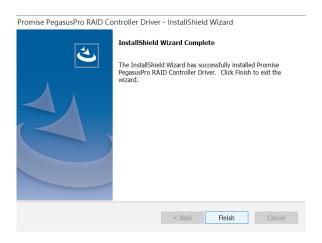
1. Double-click on the driver installation file to launch the install wizard. Click on the **Next** button to begin installation.



2. In the License Agreement dialog, you must click I accept the terms of the license agreement to continue. If you click *agree*, you can click **Next** to continue. The installer will start.



3. Click **Finish** to close the menu. You will need to restart your computer.



# **3 Install PROMISE Utilty Pro**

The PROMISE Utility Pro software utility is necessary for managing users and folders, for enabling File Boost, and other important features of the PegasusPro Series.

More advanced configuration such as changing the Disk Pools or RAID type can be done using the web-based management interface, WebPAM InSight, if preferred.

The software utility installation package is located on the PegasusPro. Follow the instructions below to install the utility according to the OS you are using.

### **Install Utility on Mac**

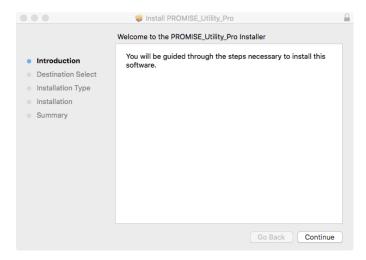
To install the PROMISE Utility Pro on Mac:

- 1. Double-click on the PegasusPro icon on your desktop to view the device contents.
- 2. Find the file **R\_PROMISE\_Utility\_ Pro.dmg** and double-click on it to mount the virtual drive containing the installation software package.
- 3. Double-click on the PROMISE\_Utility\_Pro.pkg\* file to begin the software installation.

Note that the version number of the .dmg file and .pkg file will change as it is updated.
The version number used in this example is just for the purpose of illustration.



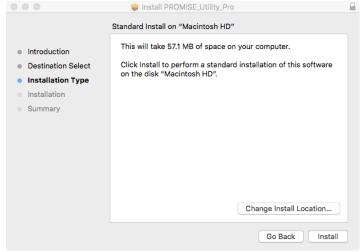
4. The Welcome menu explains that software will be installed on the computer Click the **Continue** button to proceed with installation.



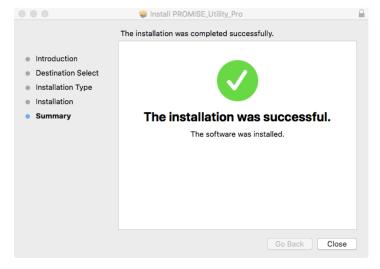
5. Administrator permission is required to install the software. Type the administrator password of your computer for permission to install the software.



6. You can change the location on your system for the installation if desired by clicking the **Change Install Location** button. Otherwise click on **Install** to continue the installation in the default location.



7. It takes a few seconds for the utility software to be installed. When the installation has completed, a message informs you that the installation was successful.



8. Click Close to end the installation procedure.

The PROMISE Utility Pro is now available to be used with the PegasusPro.

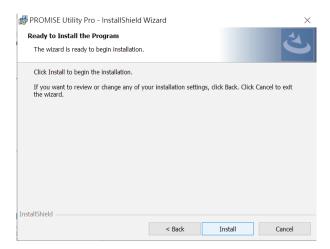
### **Install Utility on Windows**

To install the PROMISE Utility Pro on Windows:

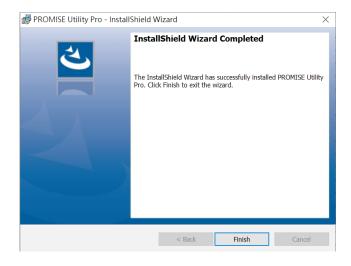
1. Double-click on the utility installation file to launch the install wizard. Click on the **Next** button to begin installation.



2. Click Install to continue. The installer will start.



3. Click **Finish** to close the menu.



# 4 Connect Power and power on

PegasusPro R8 enclosures are equipped a single power supply.

1. Insert the female end of one of the supplied power cable in to a power cable receptacle on the power supply unit, and plug the other end in to a suitable power outlet.

### Power insert and PSU on rear panel of PegasusPro R8



2. Press the **Power** button on the front left bracket facing.



# **5 Connect Thunderbolt™ 3 (Private Port)**

Connect the host computer directly to the PegasusPro R8 with a Thunderbolt 3 cable. There are two Thunderbolt™ 3 ports, use either one. This Direct Attached Storage (DAS) connection is called the Private Port; it is used by one individual with access to two DAS volumes.

### PegasusPro R8 Thunderbolt™3 ports on rear panel





PegasusPro is compatible with a Thunderbolt™4 Windows PC except when it is connected behind a Thunderbolt 4 dock or Hub (Goshen Ridge based).

After connecting the Thunderbolt™ 3 cable, two DAS volumes appear on the desktop:





PegasusProDAS\_1

PegasusProDAS\_2

Later the host system can use PROMISE FileBoost to move content from the DAS volumes to Shared folders used for team collaboration.

# **6 Connect 10G Network (Share Port)**

Use a suitable Ethernet cabling (Cat. 6e or better) to connect one to four of the Share Ports (10G network ports) on the rear panel. The network cables for the Share Ports can be connected to a switched Ethernet network, or connect directly to a collaborative user computer.

### PegasusPro R8 10G ports on rear panel



The 10G network Share Port enables collaborative workflow for users connected via 10G network. Users install the same software, PROMISE Utility Pro, and use it to mount shared folders for collaborative work.

Mac users can use the SANLink3 high performance Ethernet-to-Thunderbolt™ 3 bridge to complete the 10G network connection to their workstation.

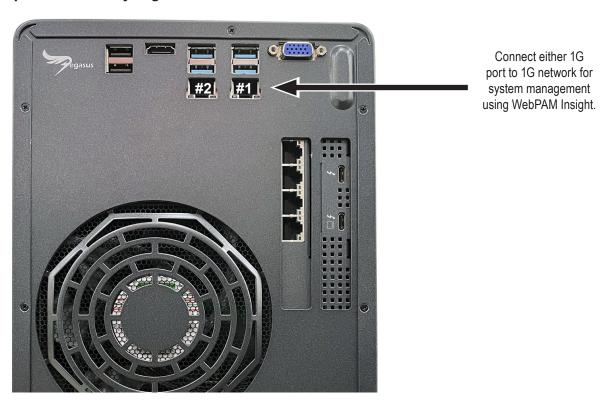


PROMISE SANLink3 Ethernet-to-Thunderbolt™ 3 bridge is recommended for Mac collaborative users that do not have an Ethernet port.

# 7 Connect 1G Network WebPAM Insight Management

In order to use the web-based management interface, WebPAM Insight, it is necessary to connect the PegasusPro to the same switched network as the computer used to manage the system. Note that this is an optional step, since the device is ready to use as shipped. However, some advanced configuration options can only be accessed using the WebPAM Insight interface.

### 1G ports on back of PegasusPro R8





The default IP settings on the 1G network interface is DHCP client. If your network used for management has an active DHCP service, use DHCP on the computer used for management to simplify IP settings on both systems.

To complete the physical connection to the WebPAM Insight management interface, connect the computer used for PegasusPro management to a 1G network switch, and connect either of the 1G network ports to the same switch or switched network.

If you do not have an Ethernet port on your computer, use a SANLink3 Ethernet-to-Thunderbolt™ 3 bridge or similar device to complete the physical link. SANLink3 Ethernet port has autonegotiatation for the port speed, so connecting to a 1G or 100 Mbs switched network is not a problem.

Also keep in mind that both the management computer and PegasusPro must be in the same IP subnet. If your network has DHCP service, this is easily done by setting the computer IP setting to DHCP client.

# **HDD REPLACEMENT**

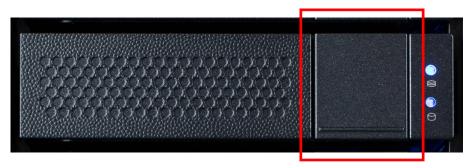
PegasusPro models are shipped with Hard Disk Drives (HDD) installed, so it will not be necessary to install new drives in order to use the device. If it is necessary to change a drive, follow the instructions in this section. It is best to have identical HDD in all bays, or at least identical specifications for capacity and speed. Go to PROMISE Support online to find a list of compatible HDD for the PegasusPro Series.

# **Removing the Drive Carrier**

The drive carrier accommodates 2.5-inch and 3.5-inch drives.

### Drive carrier front view







#### **Cautions**

Swing open the drive carrier handle before you insert the drive carrier into the enclosure.

To avoid hand contact with an electrical hazard, remove only one drive carrier a time.

- 1. Press the drive carrier release button.
- 2. Grasp the handle between thumb and finger, gently pull the empty drive carrier out of the enclosure.
- 3. Carefully lay the drive into the carrier with the power and data connectors facing away from the carrier handle.

# **Installing 3.5" Disk Drive in the Carrier**

The instructions below apply 3.5" hard disk drives installed in drive carriers intended for use with PegasusPro R8.

- 1. Remove a disk drive carrier.
- 2. Carefully lay the disk drive into the drive carrier at the front, so that the screw holes on the sides line up correctly with the power and data connectors facing away from the carrier handle.
- 3. Insert the screws through the holes in the drive carrier and into the sides of the disk drive.

Install only the counter-sink screws supplied with the drive.

- Install four screws per drive.
- Snug each screw. Be careful not to over-tighten.
- 4. Reinstall the drive carrier into the enclosure.

### Hard disk drive mounted in a drive carrier



# Using PROMISE Utility Pro

Most system management can be done using PROMISE Utility Pro connected directly through the Thunderbolt™ 3 connection or Private Port. Some more advanced system changes however require using the WebPAM Insight web-based system management GUI. For example, if you want to change the RAID, extend or change a Storage Pool, these operations must be done using WebPAM Insight. Keep in mind that the PegasusPro is shipped ready to use, with the Disk Pool and RAID already configured, most users will not need to change any of these. Also note that making changes to the RAID or Storage Pool configuration will erase any data that is stored on the effected disks.

To use the PegasusPro, you first need to install the most up to date hardware drivers and PROMISE Utility Pro software. Pegasus Utility Pro allows the system administrator and collaborative users to copy and transfer files, create private and public folders; this is also where users can enable File Boost to quickly send or retrieve files between the Private DAS volumes and the Public NAS folders.

# **PROMISE Utility Pro**

Many users might find it simpler to perform administrative operations using Pegaus Utility Pro. Fortunately, many of the necessary administrative functions can be done easily using either method. In this section we describe most of the basic setup functions and some of the user tasks that can be completed using PROMISE Utility Pro. Also note that PROMISE Utility Pro is used to manage any additional Pegasus3 or Pegasus32 units connected to the PegausPro via Thunderbolt™ 3 cable.

# **First Time Setup**

If this is the first time using PROMISE Utility Pro, make sure to follow the instructions to power on and connect the device in "Installation and Setup" on page 8. If you have installed the latest driver and software, begin with the section "Connect Power and power on" starting on page 14.

Follow the steps below if you are setting up PegasusPro for the first time.

1. Launch the PROMISE Utility Pro and you are presented with instructions on connecting a 10G network cable to the device. If you have not yet done so, do this now. If you have connected the PegasusPro to one or more Pegasus3 or Pegagus32 units (via Thunderbolt™), those will appear in the new menu providing a quick overview of the status of these systems. It is necessary to login for the first time setting up the system.

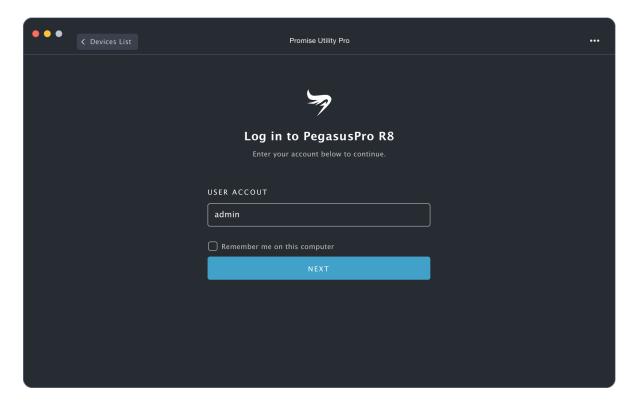


### 2. The default login settings are:

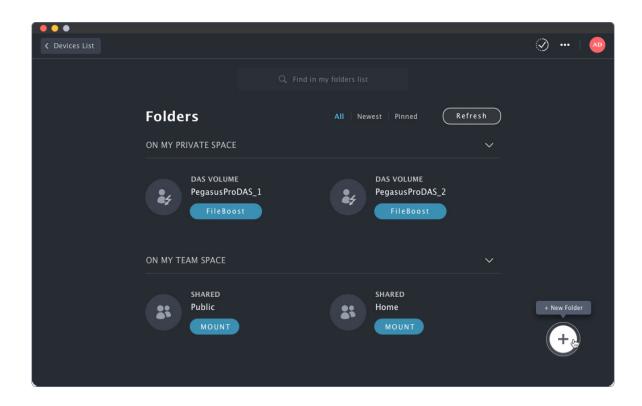
User Account name: admin

Password: admin

The administrator login information is used for accessing the management interface on the network as well. You will need to change the default login settings the first time you set up the system. Upon logging in you are presented with an opportunity to change the login password for the administrator. You must change the password in order to proceed to the next menu.



3. The **Folders** menu appears with the default folder configuration (PegasusPro\_DAS\_1 and PegasusPro\_DAS\_2) and the shared space folders (Public and Home). The administrator has access to the DAS Volume folders. The shared space Team folders are available to be shared over the 10G network. Only the administrator can create Team folders on the shared space. To create a new folder, click on the + icon in the lower right corner of the menu and follow the on screen instruction. See next page for summary of Folder Type uses and actions.



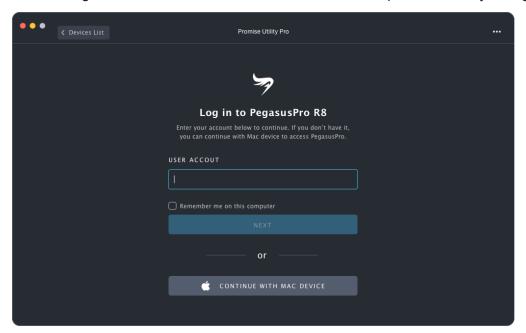
4. At this point, the administrator can approve member requests for access, manage member groups, are perform the operations necessary to use the PegasusPro and manage member accounts.

### Summary of Folder Types

Folder Type	Administrator account	Member account
DAS Volume	The Administrator can remove any or all of the files and subfolders in the DAS Volumes.	DAS Volumes appear only when connected to the PegasusPro via Direct Attached Storage (DAS) connection through the Thunderbolt™ 3 cable. Member accounts connected through the network will not see the DAS Volumes.
	<ul> <li>DAS Volumes appear only when connected to the PegasusPro via Direct Attached Storage (DAS) connection through the Thunderbolt™ 3 cable.</li> </ul>	
	DAS Volumes cannot be renamed.	
	DAS Volumes cannot be deleted using the PROMISE Utility Pro. DAS Volumes can only be deleted using WebPAM Insight.	
Public Folder	The Public Folder is created automatically.	The Public Folder is available for
	Only one Public Folder is allowed.	use to all members
	Available for use to the administrator.	
	Cannot be renamed.	
	Cannot be deleted.	
Home (Personal	The Home Folder contains member personal folders.	Personal Folders are created automatically for each member when their account is created.
Folder)	It cannot be renamed.	
	It cannot be deleted using the PROMISE Utility     Pro.	
	It can be deleted using Finder.	
Team Folder	Team Folders can be created using PROMISE     Utility Pro.	Members can use a Team Folder if the account is added to the team using the folder. Team members are managed by the administrator.
	The administrator can use any Team Folder.	
	Can be renamed using PROMISE Utility Pro.	
	Can be deleted using PROMISE Utility Pro.	
External Folder	The administrator can use any external folder.	Members can use any external folder.
(Pegasus3, Pegasus32	Cannot be renamed.	
or USB stick)	Cannot be deleted.	

# **Members First Time Using PROMISE Utility Pro on Mac**

Install the PROMISE Utility Pro on your Mac and launch the utility. The Welcome menu presents with two options for connecting with the PegasusPro. If you have an account already, login normally with your User Name and Password. Notice you that you can click on the *Remember me on this computer* option box to enable automatic login. Click on the **Next** button to continue to the password entry dialog.



If this is the first time using PROMISE Utility Pro, you have the option to enable **Auto Startup**. This is used to save time so you do not need to manually mount the storage folders located on the PegasusPro. After launching the utility a dialog menu asks if you want to allow Auto Startup, click **Allow** to enable it, or click **Deny** if you prefer to manually mount storage folders after restarting the Mac.

Follow the steps below for first time member set up:

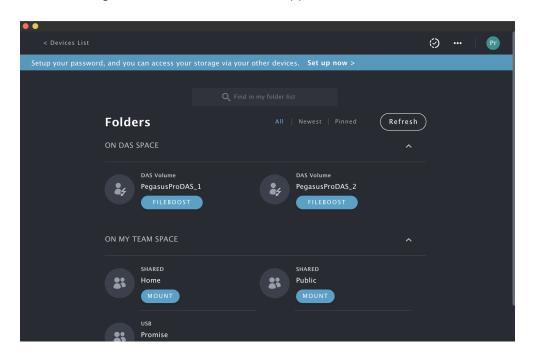
1. If you are using a Mac, click the **Continue with Mac Device** button to proceed with the first time setup.



 To access the PegasusPro, you first need to get permission from the administrator. Click on the Ask For Access Now button. A request is sent immediately to the administrator to accept or deny the request. Presumably the administrator will be running PegasusPro and will respond quickly.

While you await a reply, the menu presents the locked icon. If you need to cancel the request, click on the **Cancel Request** button.

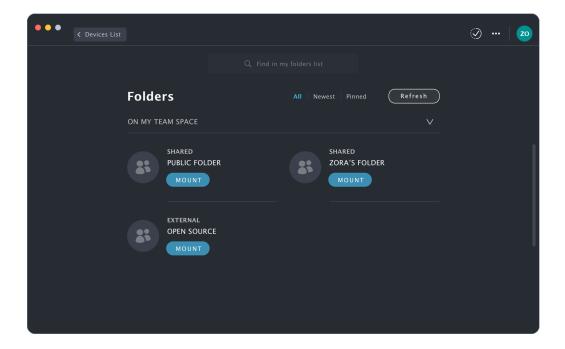
When access is granted, the **Folders** menu appears.



3. It is first necessary to create a password for your account. Your default account user name is the name of the Mac user account logged in when the request was sent. The user name cannot be changed. Click on the **Set up now** link in the blue banner that appears in the Folders menu. Note that you will no longer see this banner once you have a password.

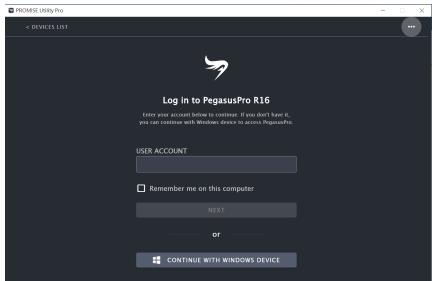


4. Once you are accepted by the administrator, you can Mount the folders available to your account. When you mount a folder it appears in Finder and becomes available for use. These folders function the same as a network drive, you can read or write to the Team folder and your personal folder. You can also be granted read and write access to other shared folders; access to other folders is controlled by the administrator.



# **Members First Time Using PROMISE Utility Pro on Windows**

Install the PROMISE Utility Pro on your Windows 10 (or later) system and launch the utility. The Welcome menu presents with two options for connecting with the PegasusPro. If you have an account already, login normally with your User Name and Password. Notice you that you can click on the *Remember me on this computer* option box to enable automatic login. Click on the **Next** button to continue to the password entry dialog.



If this is the first time using PROMISE Utility Pro, you have the option to enable **Auto Startup**. This is used to save time so you do not need to manually mount the storage folders located on the PegasusPro. After launching the utility a dialog menu asks if you want to allow Auto Startup, click **Allow** to enable it, or click **Deny** if you prefer to manually mount storage folders after restarting Windows.

Follow the steps below for first time member set up in Windows:

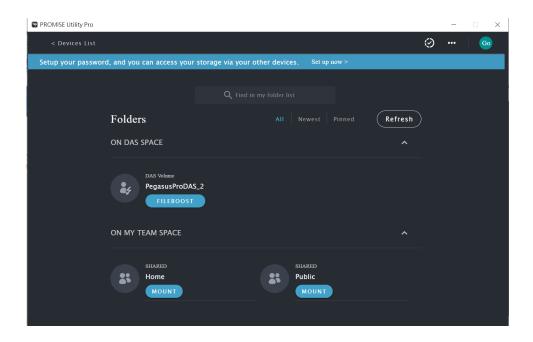
1. If you are using Windows, click the **Continue with Windows Device** button to proceed with the first time setup.



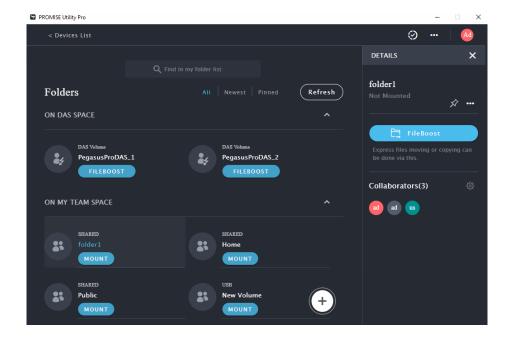
 To access the PegasusPro, you first need to get permission from the administrator. Click on the Ask For Access Now button. A request is sent immediately to the administrator to accept or deny the request. Presumably the administrator will be running PegasusPro and will respond quickly.

While you await a reply, the menu presents the locked icon. If you need to cancel the request, click on the **Cancel Request** button.

When access is granted, the **Folders** menu appears.



3. It is first necessary to create a password for your account. Your default account user name is the name of the Windows user account logged in when the request was sent. The user name cannot be changed. Click on the **Set up now** link in the blue banner that appears in the Folders menu. Note that if your Windows user account is named Administrator, a different name will automatically be assigned using the account name 'Administrator' with an index number attached with an underscore. There can be only one account named Administrator.

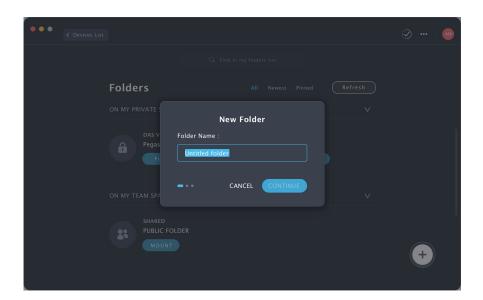


4. Once you are accepted by the administrator, you can Mount the folders available to your account. When you mount a folder it appears in Finder and becomes available for use. These folders function the same as a network drive, you can read or write to the Team folder and your personal folder. You can also be granted read and write access to other shared folders; access to other folders is controlled by the administrator.

# Adding a folder with PROMISE Utility Pro

To add a folder to a Team Volume, follow these steps:

 Click on the + icon in the lower right corner, enter a name for the new folder. If there are more than one Team Volume, first choose the New Team Volume option that appears.



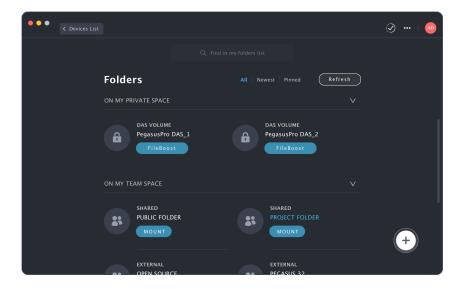
2. Add Members to group allowed to access the new Team Folder. Click on the icons for the Members you want to add, and click on **Continue**. Up to 20 members can be added to a Team folder.



3. There are two categories for Members: Members which are allowed to add, delete or edit their files in the Team folder (read/write) and Members that can view content but not make changes (read only). Hover the cursor over Members to move from one category to the other, then click **Create Folder** to finish.



4. The new Team folder appears in the Folders list.



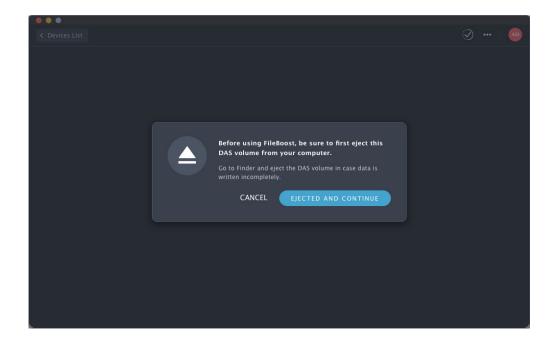
# **Using FileBoost**

FileBoost is a PROMISE proprietary technology that makes possible very rapid data transfers to and from the DAS Volume and the NAS folder accessible on Member computers. This is a key feature of the PegasusPro system and is especially useful when large amounts of data need to be moved between folders mounted on Member computers.

It is possible to perform the same operation using only Finder in Mac, but FileBoost greatly increases data transfer performance to reduce time needed for completion. Again, the time savings is significant when large quantities of data are routinely being moved from one Member folder to another.

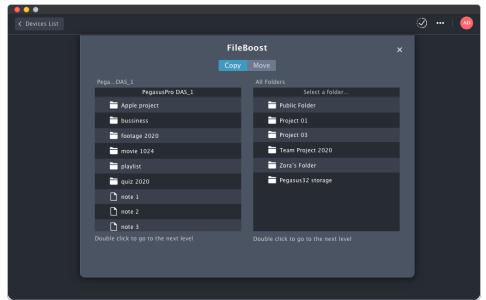
For the administrator, or any user connected to PegasusPro via Thunderbolt™ 3 DAS, it is necessary to eject the DAS Volumes first before launching FileBoost. You can use the Eject function in Finder to eject the DAS Volumes, then begin using FileBoost.

If you try to start FileBoost before ejecting the DAS Volumes, a warning appears instructing the administrator or DAS user to first eject the volumes. Members connected only via 10G network do not need to do this since they are not connected to the DAS Volumes.



#### To start using FileBoost:

Click on the FileBoost button, the FileBoost menu appears. The menu reveals the content of
the Source Volume in the left panel, with the Target folders available to the Member in the right
panel. You can use the Copy and Move buttons to first choose the action you want to perform,
then use the menu buttons or drag and drop function to move or copy files to the desired
location.



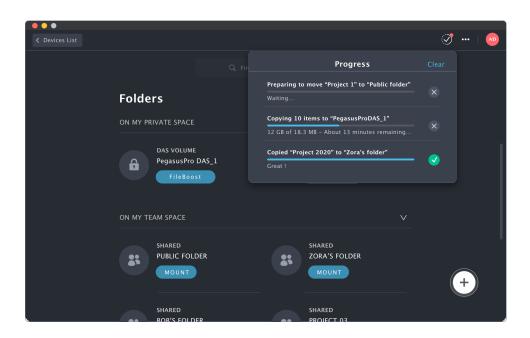
2. Choose the items to copy or move from the Source Volume, and click on the action button (i.e. **Copy To** or **Move To** located under the panel). Alternatively, select the items, drag them to the destination and release the (left) mouse button.



3. The items appear in the target location. Click **X** to close the FileBoost menu when you are finished copying or moving files.



4. Status on the transfers appear above the menu. Click outside the menu to close the status menu.



# Using WebPAM InSight

In order to connect to WebPAM Insight, the computer used for management and the PegasusPro must be connected to the same switched 1G network, and be in the same IP subnet.

# 1G ports on back of PegasusPro R8



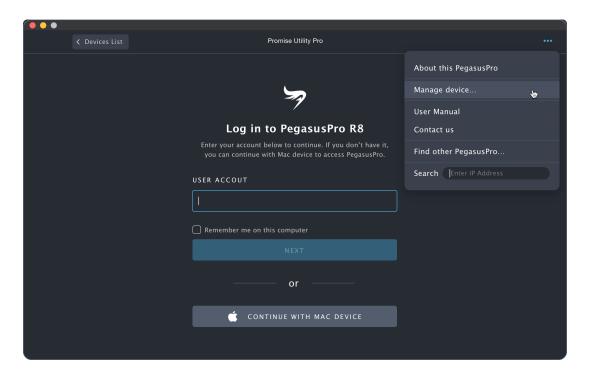
Connect either 1G port to 1G network for system management using WebPAM Insight.

# **Accessing WebPAM Insight**

The simplest way to access WebPAM Insight is to click on the link embedded in the PROMISE Utility Pro interface.

To launch WebPAM Insight in the default web browser, click the ••• icon to view the various options and select *Manage device*.

Link to WebPAM Insight management in PROMISE Utility Pro interface



Your default browser will launch and present the Dashboard menu of WebPAM Insight.

# **Perusing WebPAM Insight GUI**

The WebPAM Insight interface consists of menu icons in the left panel, each leading you to a specific function; a virtual front view of the PegasusPro R16 with drives indicating their working status; a system health status indicator, capacity indicator that informs of total and available storage capacity; and a real-time graphical performance monitor. Note that the icons in the main display are interactive, if you float the cursor over an icon a tool tip appears telling its function. The icons labeled on the left side in the example below (Dashboard, Storage, Members, Network, Device and Administration) are links to functional menu groups. All configuration and administrative actions can be completed using the linked menus.

# Pegasus Pro R16 Find this device Pegasus Pro R16 Find this device The Administration icon Pegasus Pro R16 Find this device The Administration icon Pegasus Pro R16 Find this device The Administration icon Pegasus Pro R16 Find this device The Administration icon The Interest 5 mines performance The Interest 5 mines performance The Interest 5 mines performance The Interest 5 mines performance

## WebPAM Insight interface with the Dashboard displayed

- Dashboard Show the Dashboard
- Storage Storage Pool List, Spare Drive List
- Members Member Account and Member Group management
- Network Network interface management
- Device Device Information, Basic Settings, Physical Drive List
- Administration Enclosure (PegasusPro hardware) Information, Events, Background Activities,
   Firmware Update, Performance Monitor and Restore Factory Default (Settings)

# **Dashboard**

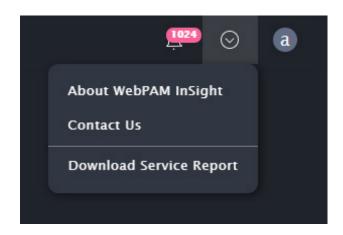
The Dashboard menu is the starting point on WebPAM Insight after login. This display menu provides a quick overview of the real time status to the physical enclosure hardware and functional systems of the PegasusPro.

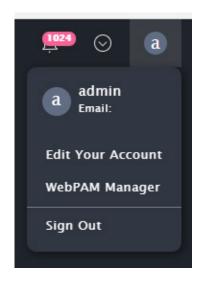
#### **Dashboard**



Click on the arrow icon to view a drop-down menu to create a **Service Report**, find the current version of WebPAM Insight, or link to the **Support** menu on the PROMISE website. Click on the Bell icon to view the events menu. Click on the 'a' to logout of the administrator account, or to edit details for the account.

## WebPAM Insight drop-down menus



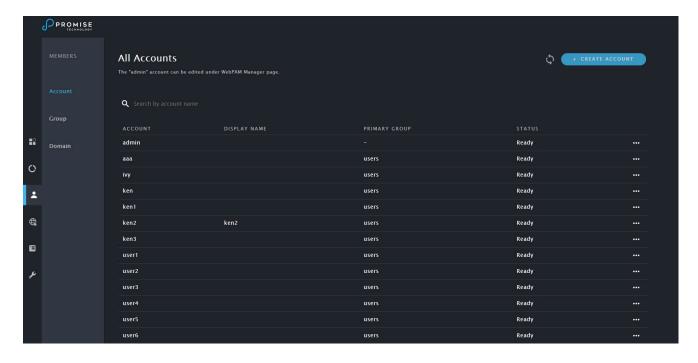


# **Member and Group Management**

Management of accounts and groups can be done by the administrator using PROMISE Utility Pro or WebPAM Insight. In WebPAM Insight, click the **Members** icon in the left panel to go to the Members main menu.

Member accounts are listed in the main menu in alphabetical order by **Account** name. Other information in the menu includes **Display Name**, **Primary Group** (individual accounts can be in more than one group) and the **Status** of the account. By default, there is only a single account for the administrator; newly added accounts appear as they are created.

#### Members Main menu

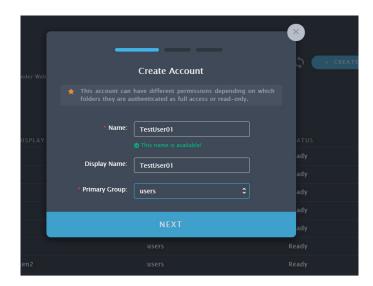


# **Creating a New Member Account**

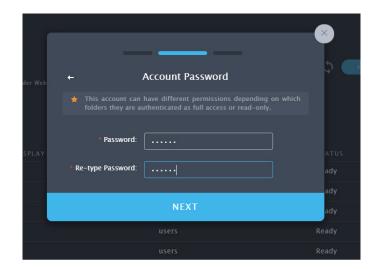
To create a new account, in the **Members** menu:

- 1. Click on the **Create Account** button, a new menu appears.
- 2. Enter a **Name** and a **Display Name** for the account.
- Choose the Primary Group in which the account is placed and click Next. A new menu appears.
- 4. Enter a **Password**, **Re-type** the password to verify it is correct, and click **Next**.
- 5. The new account appears in the Members list.

#### Create Account menu



#### **Account Password menu**

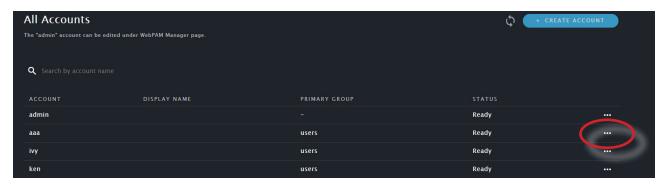


# **Deleting an Existing Account**

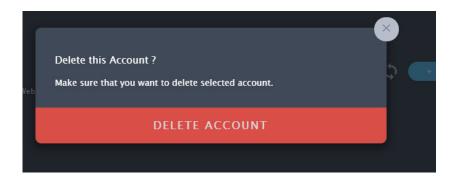
To remove an existing account:

1. Go to the Members Main Menu, click on the ··· icon in the right column for the account to be removed, and select the *Delete* option; a new menu appears.

#### Members menu



2. Confirm that you want to remove the account, click on **Delete Account**.

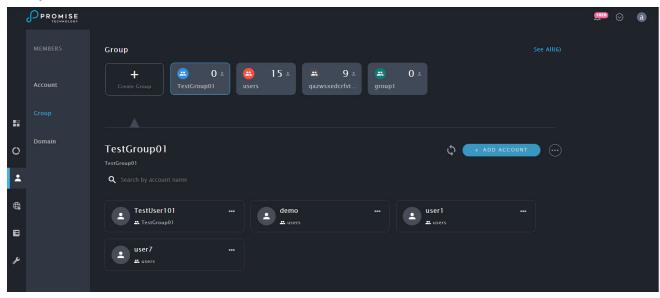


# **Creating a New Member Group**

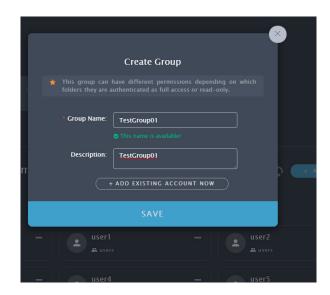
To create a new member group:

1. In the Group menu, click on the **Create Group +** icon, a new menu appears.

## Group menu



- 2. Enter a **Group Name** and a **Description** for the account.
- 3. Click on **Save**. The new group appears listed in the **Group** menu.

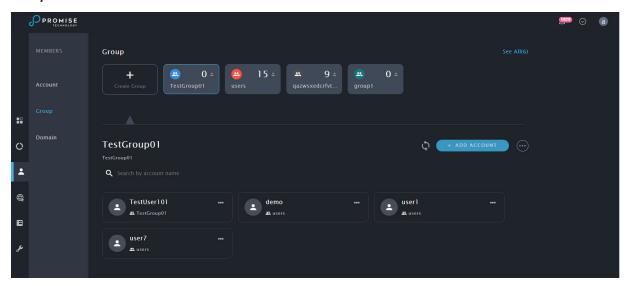


# **Adding Members to a Group**

To add members to an existing group:

- 1. In the **Group** menu, click on the **Group** icon to view details for that group.
- 2. Click on the Add Account button, a new menu appears.
- 3. Select existing users from the list and click **Save**. The users are added to the group.

## **Group Details**



# **Network Management**

Network management on the PegasusPro R16 includes managing network settings for the 10G and 1G Ethernet interfaces, as well as enabling and configuring bonding for the Ethernet interfaces. **Device** management over the network is done through the 1G Ethernet interface. Note that if you change the IP address or other network settings on this interface, you will need to reconnect to the device for further management changes.

The 10G and 1G Ethernet network settings are managed via the Ethernet menu. To view this menu, click on the Network icon in the left tool bar, then click on Ethernet in the left panel.

# 

# **Ethernet Interface List**

To configure network settings on any Ethernet interface, click the settings icon for the interface (•••) and choose the Network Settings option. In the new menu, configure network IP settings for the 10G or 1G interface and click **Submit**.

# **Network Interface Bonding**

Network bonding is a process of combing or joining two or more network interfaces together into a single interface. Network bonding offers performance improvements and redundancy by increasing the network throughput and bandwidth. If one interface is down or unplugged the other one will work. It can be used in situations where you need fault tolerance, redundancy or load balancing networks. In Linux, a special kernel module named bonding is used to connect multiple network interfaces into a single interface. Two or more network interfaces can be connected into a single logical "bonded" interface. The behavior of the bonded interfaces depends on the type of bonding method used.

# Types of Network Bonding

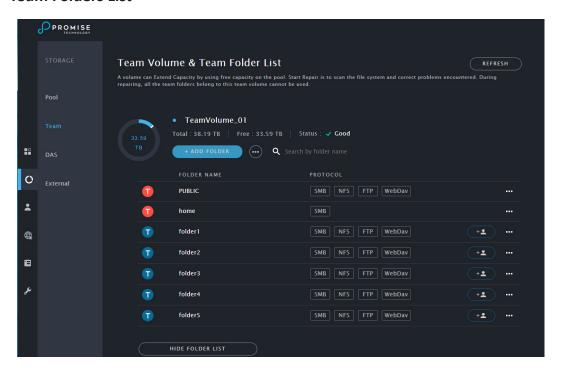
- mode=0 (balance-rr) This mode is based on Round-robin policy and it is the default mode. This
  mode offers fault tolerance and load balancing features. It transmits the packets in Round robin
  fashion that is from the first available slave through the last.
- mode-1 (active-backup) This mode is based on Active-backup policy. Only one slave is active
  in this band, and another one will act only when the other fails. The MAC address of this bond is
  available only on the network adapter part to avoid confusing the switch. This mode also provides
  fault tolerance.
- mode=2 (balance-xor) This mode sets an XOR (exclusive or) mode that is the source MAC
  address is XOR'd with destination MAC address for providing load balancing and fault tolerance.
  Each destination MAC address the same slave is selected.
- mode=3 (broadcast)This method is based on broadcast policy that is it transmitted everything on all slave interfaces. It provides fault tolerance. This can be used only for specific purposes.
- mode=4 (802.3ad) This mode is known as a Dynamic Link Aggregation mode that has it created
  aggregation groups having same speed. It requires a switch that supports IEEE 802.3ad dynamic
  link. The slave selection for outgoing traffic is done based on a transmit hashing method. This may
  be changed from the XOR method via the xmit\_hash\_policy option.
- mode=5 (balance-tlb) This mode is called Adaptive transmit load balancing. The outgoing traffic
  is distributed based on the current load on each slave and the incoming traffic is received by the
  current slave. If the incoming traffic fails, the failed receiving slave is replaced by the MAC address
  of another slave. This mode does not require any special switch support.
- mode=6 (balance-alb) This mode is called adaptive load balancing. This mode does not require
  any special switch support.

# **Team Folders**

Management of production teams for collaboration will likely be one of the main activities of the PegasusPro administrator. The user interface and menus are user friendly and intuitive in order to simplify overall system management. Folders, teams and users can also be managed using the PROMISE Utility Pro.

To view the menu for team and user management, click the Storage menu icon in the left panel of the interface. The first menu that appears is the **Team Volume and Team Folder List.** The default configuration of the PegasusPro R16 has a shared team volume, **Team\_Volume\_01**, already set up. If you want to change the name of the volume you need to go to the **Pool** configuration menus. Note however that making changes to the existing disk pool should be done before you start using the PegasusPro R16 since the data will be lost if you change the default pool set up.

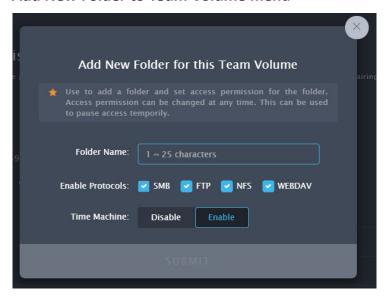
#### Team Folders List



# **Creating a New Team Folder**

To create a new Team Folder, click the + Add Folder button, the Add New Folder menu appears.

#### Add New Folder to Team Volume menu



To create a new Team Folder:

- Type a Folder Name, and click to enable or disable protocols for the folder (SMB, FTP, NFS or WEBDAV all enabled by default).
- 2. The option of enabling Time Machine backups for the team folder can also be **enabled** or **disabled** (enabled by default).
- 3. Click the **Submit** button to create the new team folder. The new folder appears in the Team Folder list for the volume.

# Removing a Team Folder

To delete a team folder, go to the Folders List, click on the Details icon for the folder (•••) and choose the *Delete* option. A pop-up menu asks you to confirm your decision to delete the folder. To confirm, type the name of the folder and click on **Confirm** to remove the folder.

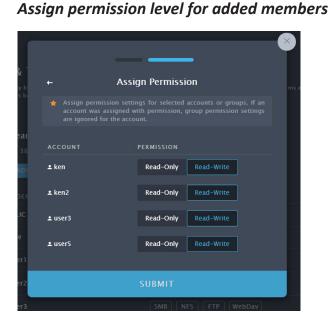
# **Adding Members to a Team Folder**

1. To add members to a team folder, click on the **Add Member** icon for an eligible team folder. *Note that team folders with the blue T icon are eligible for member management in this menu.* 

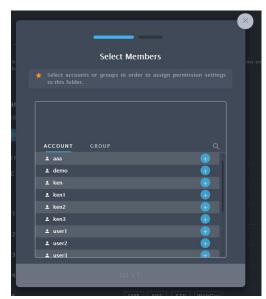
#### Click icon to add members



2. In the menu that appears, click on the + icon for the members you want to add to the team folder.



## Select members to add to the team folder



- 3. Choose the permission level (*Read-Write, Read-Only*) for the newly added members.
- 4. Click the **Submit** button.

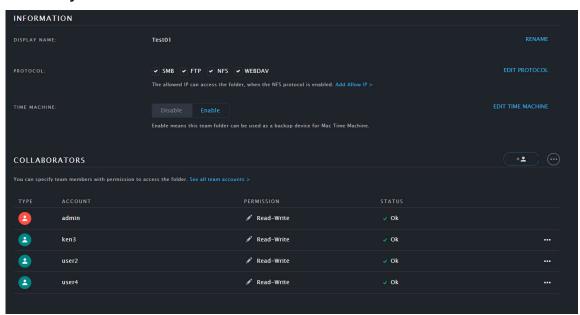
# **Editing/Deleting Members and Permission Settings**

To delete members from a team folder or to change settings such as read-write permission settings, go to the Folders List, click on the Details icon for the folder (•••) and choose the *Edit Details* option. *Note that this is also where you can change the name of the folder.* 

## Team Folders list, Edit Details



## **Folder Information**

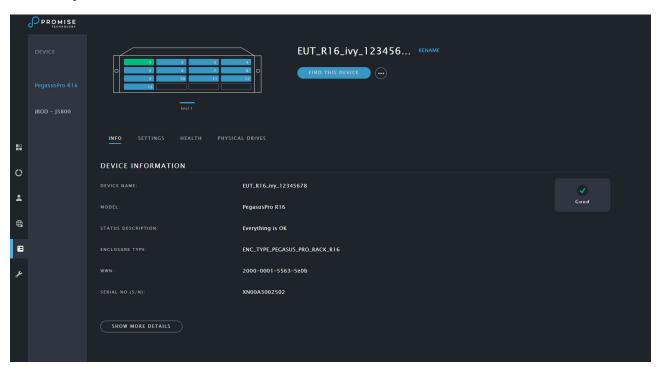


To delete members from a team folder, click on the Details icon for the user (•••) and choose the *Remove user from this folder* option.

# **Device Information**

The Device menus include a few settings menus for system alarm and system time. This is also where you can reset the the device to the factory default settings. Most of the menus under the Device banner are used to present information about the enclosure.

## **Device Information Menu**



## **Device Information**

Information presented in the Device main menu includes:

- Device Name
- Model
- Status Description
- Enclosure Type
- WWN
- Serial Number

Click See more details to expand the menu.

- SCSI Protocol Supported
- Cache UsageHardware Version
- Host Cache Flushing (Disabled by default)
- Dirty Cache Usage
- Firmware Version
- Software
- Version

# **Device Settings**

Click the Settings link in the Device menu to view the basic settings menu for the device.

The actions available in the Basic Settings menu are:

## Allow detection using PROMISE Utility Pro

Enabled by default. Use this to enable or disable autodetection for PROMISE Utility Pro on the network. PROMISE Utility Pro uses autodetection to locate available PegasusPro devices on the 10G network.

## Alert Sound (Sound/Mute)

Enabled by default. Use this to enable or disable the audible alarm on the PegasusPro.

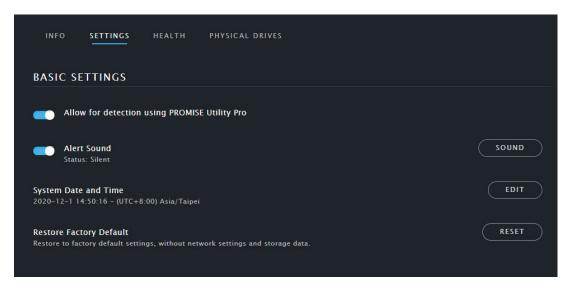
#### System Date and Time

Click the Edit button to change Date and Time settings.

#### Restore Factory Default

Click on Reset to restore system settings to factory default settings. Note that if a reset is conducted, all data in the Home folder will be moved to the administrators Home folder, and all Members and permission settings will be lost. Note that you can backup settings for Members and Storage settings using the Import/Export settings menu in the Administration tab.

## Device Settings menu



If additional JBOD systems are connected, a link on the left panel provides a quick view of the status.

## JBOD Status in Device menu



# **Device Health**

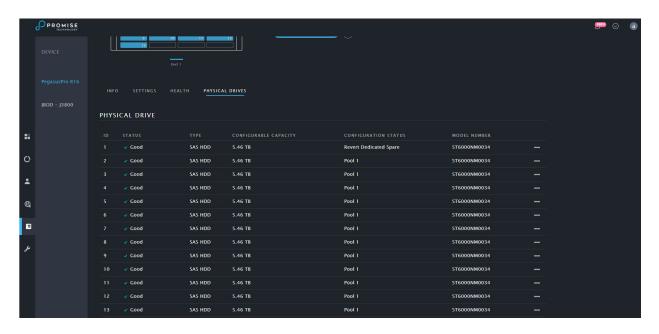
Click the Health link in the Device menu to view system health status information for the following:

- Controller
- Power Supply Unit
- PSU Fan
- Blower
- Temperature Sensors
- Voltage Sensors

# **Physical Drive Status**

Click on the **Physical Drives** link in the Device menu to view the current status of the physical drives populating the enclosure. Basic information includes that drive health, the type, capacity and configuration status.

# **Physical Drives Status**



# **Administration**

Administration menus include the Events, Firmware Update, Import/Export settings, Service, Protocol Registration menus.

# **Events Log**

The log of Events appears. Events are added to the top of the list. Each item includes:

- Index number Begins with 0 at system startup.
- Time Stamp Date and time the event happened.
- **Device** Pool, Volume, Physical Drive by its ID number.
- Severity see table on previous page
- **Description** A description of the event in plain language.

To download the Events log, click on the Download Events button to save a zipped file listing the contents of the log.

To clear the log, click the ••• icon and selection the *Clear Events* option.

# Firmware Update

To update system firmware, make sure to first download the latest firmware from the PROMISE website, and save the file to the administrator's computer. The Firmware Update menu allows drag and drop, or Browse functions to locate the downloaded firmware update file. You can also use TFTP from a remote system if preferred.

Choose the update file and follow the on screen instructions to install the new firmware. A system reboot will be required. Make sure there are no active users during the update process.

# Import/Export Settings Files

The Import/Export settings menu allows back up of Members and Storage settings, which can be loaded back onto the system. This menu can also be used to generate a Service Report.

To import settings, drag and drop the previously saved settings file or Browse to locate it, then click on the **Import** button.

To export settings, click on the type of setting you want to save and click the **Export** button.

## Service

Use the Service menu to start, stop or configure SSH, Email and Webserver functions. Click on the ••• icon for the service and choose the option to configure Settings, Start, Stop or Restart.

## Protocol

The Protocol menu is used to enable, disable or configure settings for SMB, NFS, FTP and HTTP protocols. Note that SMB, NFS and HTTP must be enabled for client Members to use the PegasusPro.

# Registration

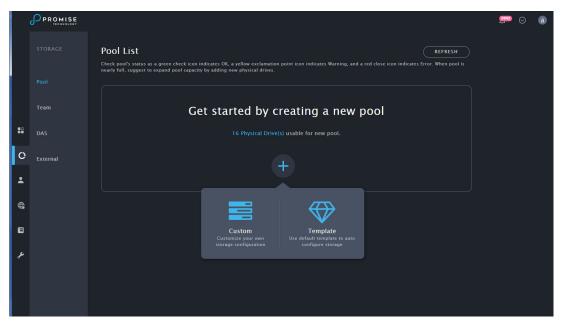
It is strongly recommended that you register your PegasustPro to enable optimum service if you should require assistance or technical support. To register, you must login with your PROMISE account. If you do not have an account, it is easy and quick to get one. To create a new PROMISE account, click on the Sign Up link in the Registration menu and proceed to register the PegasusPro. If you have an account already, just follow the instructions in the menu to complete the registration.

# **Configuring A New Storage Volume**

The PegasusPro is shipped with the storage configured ready to use. However, if you should want to delete the existing storage volumes and create a new storage configuration, the instructions in this section explain how to do it. The default storage configuration on the PegasusPro R16 contains one storage pool with two storage volumes ( <code>PegasusPro\_DAS1</code>, <code>PegasusPro\_DAS1</code>, and <code>Team\_Volume\_01</code> with <code>Public</code> and <code>Home</code> folders)., each volume with one spare drive. So each volume consists of a storage pool of 8 HDD including one spare drive.

If you have deleted the default storage pool, the **Pool** menu will instruct you to create a new storage pool to begin the configuration. You have the option of using the **Template** option to create the default storage setup (one pool, two equal sized volumes) or you choose the **Custom** option to customize the storage configuration.

## Pool List with no storage configuration



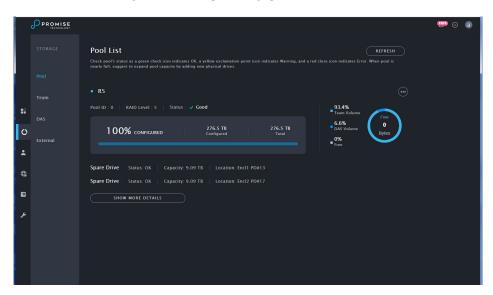
Create New Pool from Template



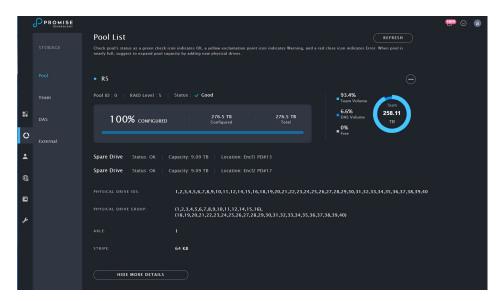
#### **Template Option**

The Template option will create everything in one step. You simply need to enter a name for the storage pool, click **Yes** or **No** to create or not create a spare drive and click on **Create**. The new pool will use all available drives for one storage pool with two volumes. When completed the **Storage Pool List** will look like the example here.

# Pool List with Default Storage Configuration



#### **Pool List Details**



# **CONTACTING TECHNICAL SUPPORT**

PROMISE offers local Phone Support for Pegasus series during normal business hours:

For telephone support and business hours click here (http://www.promise.com/ContactUs) Web support and Live Chat is offered 24/7

Web: https://support.promise.com

Live Chat: http://www.promise.com/us/Support

Please be sure to register your product at PROMISE eSupport (https://support.promise.com)

The information below is required for troubleshooting. Please register this information or have it readily available at the time of your support call

- Serial number Located on label toward rear of Pegasus chassis
- Config Logs. Please refer http://kb.promise.com/cat/PegasusPro-series/ for instruction on acquiring Config Logs.

#### LIMITATIONS

RMAs issued before 12:00 noon PST M-F can be shipped out on same day. RMAs issued after 12:00 noon PST M- F ship out the next business day.

#### RMA METHODS

1. Cross Ship (NOT applicable in APAC and EMEAR)

For this method, Credit card information is required for security purposes. The replacement item is first sent to you (customer). Thirty (30) days, from the day of shipment, are allotted for returning the defective unit. If the defective part is not returned within the allotted 30days, your credit card will be charged the MSRP of the replacement part(s) shipped.

1. Return and Replace

Credit card information is not needed for this method. Once your request for an RMA is approved, an RMA number will be emailed to you along with specific shipping instructions. Product(s) must be returned in its original packaging (inner and outer box). If you do not have the original packaging contents please contact PROMISE Technical Support. All RMA are shipped standard ground to your location.

See "Returning the Product For Repair" on page 64 for more details.

## **United States**

3241 Keller St.

Santa Clara CA. 95054

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

#### **Australia**

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

#### **EMEA**

## **Netherlands**

Science Park Eindhoven 5228

5692 EG Son, The Netherlands

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

## Austria

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

#### France

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

# **Germany**

Europaplatz 9

44269 Dortmund, Germany

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

## Sweden

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

#### Switzerland ITF

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

# **Norway ITF**

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

# **Belguim**

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

# Luxembourg

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

# **United Kingdom**

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

## Taiwan

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

## China

Room 1108, West Wing, Shi Chuang Plaza, 22 Information Road

Shangdi IT Park, Haidian District, Beijing 100085

Fax: 86-10-8857-8015

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

## Korea

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

# **Hong Kong**

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

# **Singapore**

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

# Japan

3F, Mura Matsu Bldg, 3-8-5, Hongo Bunkyo-ku

Tokyo 113-0033, Japan

Technical Support (E-Support): https://support.promise.com

Web Site: http://www.promise.com

# LIMITED WARRANTY

PROMISE Technology, Inc. ("PROMISE") warrants that this product, from the time of the delivery of the product to the original end user:

- a) all components for a period of three (3) years;
- b) will conform to PROMISE's specifications;
- c) will be free from defects in material and workmanship under normal use and service.

#### This warranty:

- a) applies only to products which are new and in cartons on the date of purchase;
- b) is not transferable;
- c) is valid only when accompanied by a copy of the original purchase invoice.

This warranty shall not apply to defects resulting from:

- a) improper or inadequate maintenance, or unauthorized modification(s), performed by the end user;
- b) operation outside the environmental specifications for the product;
- c) accident, misuse, negligence, misapplication, abuse, natural or personal disaster, or maintenance by anyone other than a PROMISE or a PROMISE-authorized service center.

## **D**ISCLAIMER OF OTHER WARRANTIES

This warranty covers only parts and labor, and excludes coverage on software items as expressly set above.

Except as expressly set forth above, PROMISE disclaims any warranties, expressed or implied, by statute or otherwise, regarding the product, including, without limitation, any warranties for fitness for any purpose, quality, merchantability, non-infringement, or otherwise. PROMISE makes no warranty or representation concerning the suitability of any product for use with any other item. You assume full responsibility for selecting products and for ensuring that the products selected are compatible and appropriate for use with other goods with which they will be used.

PROMISE does not warrant that any product is free from errors or that it will interface without problems with your computer system. It is your responsibility to back up or otherwise save important data before installing any product and continue to back up your important data regularly.

No other document, statement or representation may be relied on to vary the terms of this limited warranty.

PROMISE's sole responsibility with respect to any product is to do one of the following:

- a) replace the product with a conforming unit of the same or superior product;
- b) repair the product.

PROMISE shall not be liable for the cost of procuring substitute goods, services, lost profits, unrealized savings, equipment damage, costs of recovering, reprogramming, or reproducing of programs or data stored in or used with the products, or for any other general, special, consequential, indirect, incidental, or punitive damages, whether in contract, tort, or otherwise, notwithstanding the failure of the essential purpose of the foregoing remedy and regardless of whether PROMISE has been advised of the possibility of such damages. PROMISE is not an insurer. If you desire insurance against such damage, you must obtain insurance from another party.

Some states do not allow the exclusion or limitation of incidental or consequential damages for consumer products, so the above limitation may not apply to you.

This warranty gives specific legal rights, and you may also have other rights that vary from state to state. This limited warranty is governed by the State of California.

## YOUR RESPONSIBILITIES

You are responsible for determining whether the product is appropriate for your use and will interface with your equipment without malfunction or damage. You are also responsible for backing up your data before installing any product and for regularly backing up your data after installing the product. PROMISE is not liable for any damage to equipment or data loss resulting from the use of any product.

## RETURNING THE PRODUCT FOR REPAIR

If you suspect a product is not working properly, or if you have any questions about your product, contact our Technical Support staff, and be ready to provide the following information:

- Product model and serial number (required)
- · Return shipping address
- Daytime phone number
- Description of the problem
- Copy of the original purchase invoice

The technician helps you determine whether the product requires repair. If the product needs repair, the technician issues an RMA (Return Merchandise Authorization) number.



#### **IMPORTANT**

Obtain an RMA number from Technical Support before you return the product and write the RMA number on the label. The RMA number is essential for tracking your product and providing the proper service.

Return ONLY the specific product covered by the warranty. Do not ship cables, manuals, CDs, etc.

USA and PROMISE Technology, Inc. Canada: Customer Service Dept.

Attn.: RMA#\_\_\_\_\_47654 Kato Road Fremont, CA 94538

Asia-Pacific: Please return the product to your dealer or retailer or Contact

PROMISE technical support for instructions before shipping the

product.

Other Countries Please check PROMISE E-Support: https://support.promise.com

for the location nearest you. Contact the office or repair depot for

full instructions before shipping the product.

You must follow the packaging guidelines for returning products:

· Use the original shipping carton and packaging

- Include a summary of the product's problem(s)
- Write an attention line on the box with the RMA number
- Include a copy of your proof of purchase

You are responsible for the cost of insurance and shipment of the product to PROMISE. Note that damage incurred due to improper transport or packaging is not covered under the Limited Warranty.

When repairing returned product(s), PROMISE may replace defective parts with new or reconditioned parts, or replace the entire unit with a new or reconditioned unit. In the event of a replacement, the replacement unit is under warranty for the remainder of the original warranty term from purchase date, or 30 days, whichever is longer.

PROMISE pays for outbound standard shipping charges only. You must pay for any additional shipping options, such as express shipping and return of the defective part or unit.