LiveAction

LiveWire Core 1200

Quick Start Guide

Contents

LiveWire Core 1200

What's included

Your standard LiveWire Core 1200 package includes:

- LiveWire Core 1200 packet capture and analysis appliance
- Pre-loaded, tested, and fully integrated LiveWire software for high-speed packet capture, storage, and flow based telemetry generation
- Web-based configuration
- LiveWire Omnipeek
- Omnipeek for Windows License (1)
- Two power cords
- Rack-mount rails
- Chassis bezel

LiveWire Core 1200 Technical Specifications

Specification	Description
Base	OEM PowerEdge R6525 Server
Chassis	3.5" Chassis with up to 4 Hot Plug Hard Drives
Motherboard	PowerEdge R6525 Motherboard
Processor	AMD 7313 3.0GHz,16C/32T (1)
Memory	64 GB 3200MT/s, Dual Rank (4x16)
RAID/Internal Storage Controllers	PERC H745 Controller, Front
Hard Drive	BOSS-S2 controller card + with 2 M.2 240GB (RAID 1) 8TB 7.2K RPM SAS ISE 12Gbps 512e 3.5in Hard Drive (4)
Network Adapters	2 x 1Gb Onboard LOM Broadcom 57416 Dual Port 10GbE BASE-T Adapter, OCP NIC 3.0
Fans	Standard Fan x6
Power Supply	Dual, Hot Plug, Redundant Power Supply (1+1), 800W
Power Cords	C13 to C14, PDU Style, 12 AMP, 6.5 Feet (2m) Power Cord, North America
PCIe Riser	Riser Config 1, 1 x 16 FH
Embedded Systems Management	iDRAC9, Enterprise
Quick Sync	None
Rack Rails	ReadyRails Sliding Rails Without Cable Management Arm

Specification	Description
PSU Specifications:	
PSU	8OO W Mixed Mode
Class	Platinum
Heat Dissipation (Maximum)	3000 BTU/hr
Frequency	50/60 Hz
Voltage	100–240 V AC, autoranging
Current	9.2 - 4.7 A
Temperature Specifications A2:	
Allowable continuous operations	
Temperature ranges for altitudes <= 900 m (<= 2953 ft)	10–35°C (50–95°F) with no direct sunlight on the equipment
Humidity percent ranges (non-condensing at all times)	8% RH with -12°C minimum dew point to 80% RH with 21°C (69.8°F) maximum dew point
Operational altitude de-rating	Maximum temperature is reduced by 1°C/300 m (1.8°F/984 Ft) above 900 m (2953 Ft)
Temperature Specifications A3:	
Allowable continuous operations	
Temperature ranges for altitudes <= 900 m (<= 2953 ft)	5–40°C (41–104°F) with no direct sunlight on the equipment
Humidity percent range (non-condensing at all times)	8% RH with -12°C minimum dew point to 85% RH with 24°C (75.2°F) maximum dew point
Operational altitude de-rating	Maximum temperature is reduced by 1°C/175 m (1.8°F/574 Ft) above 900 m (2953 Ft)
Temperature Specifications A4:	
Allowable continuous operations	
Temperature range for altitudes <= 900 m (<= 2953 ft)	5–45°C (41–113°F) with no direct sunlight on the equipment
Humidity percent range (non-condensing at all times)	8% RH with -12°C minimum dew point to 90% RH with 24°C (75.2°F) maximum dew point
Operational altitude de-rating	Maximum temperature is reduced by 1°C/125 m (1.8°F/410 Ft) above 900 m (2953 Ft)
Temperature Specifications Shared Requirements Across All Categore:	
Allowable continuous operations	
Maximum temperature gradient (applies to both operation and non-operation)	20°C in an hour* (36°F in an hour) and 5°C in 15 minutes (9°F in 15 minutes), 5°C in an hour* (9°F in an hour) for tape hardware NOTE * - Per ASHRAE thermal guidelines for tape hardware, these are not instantaneous rates of temperature change.
Non-operational temperature limits	-40 to 65°C (-40 to 149°F)
Non-operational humidity limits	5% to 95% RH with 27°C (80.6°F) maximum dew point
Maximum non-operational altitude	12,000 meters (39,370 feet)
Maximum operational altitude	3,048 meters (10,000 feet)
Maximum Vibration Specifications:	
Operating	0.21 G_{rms} at 5 Hz to 500 Hz (all operation orientations)
Storage	1.88 G_{rms} at 10 Hz to 500 Hz for 15 minutes (all six sides tested)
Maximum Shock Pulse Specifications:	

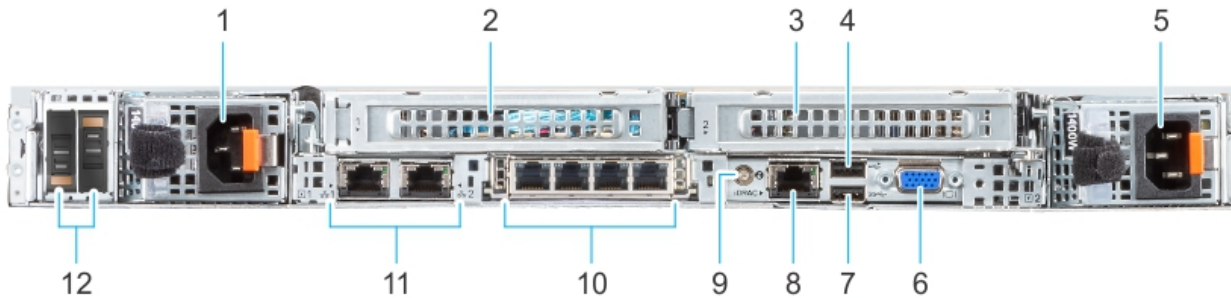| Specification	Description
Operating	Six consecutively executed shock pulses in the positive and negative x, y, and z axis of 6 G for up to 11 ms.
Storage	Six consecutively executed shock pulses in the positive and negative x, y, and z axis (one pulse on each side of the system) of 71 G for up to 2 ms.

LiveWire Core 1200 front / back panels

See the illustrations and descriptions of the LiveWire Core 1200 front and back panel in the sections below.

Front panel

Item	Ports, Panels, or Slots	Description
1	Left control panel	Contains the system health, system ID, and the status LED indicator.
2	Drive slots	Enables you to install drives that are supported on your system.
3	VGA port	Enables you to connect a display device to the system.
4	Right control panel	Contains the power button, USB port, iDRAC Direct micro port, and the iDRAC Direct status LED.
5	Information tag	The Express Service Tag is a slide-out label panel that contains system information such as Service Tag, NIC, MAC address, and so on. If you have opted for the secure default access to iDRAC, the Information tag will also contain the iDRAC secure default password.

Back panel

| Item	Ports, Panels, or Slots	Description
1	Power supply unit (PSU 1)	AC 800 W. Both power supplies should be plugged in to power to provide redundancy.
2	PCIe expansion card riser (slot 1)	The expansion card riser enables you to connect PCI Express expansion cards.
3	PCIe expansion card riser (slot 2)	The expansion card riser enables you to connect PCI Express expansion cards.
4	USB 2.0 port (1)	Use the USB 2.0 port to connect USB devices to the system. These ports are 4-pin, USB 2.0-compliant.
5	Power supply unit (PSU 2)	AC 800 W. Both power supplies should be plugged in to power to provide redundancy.
6	VGA port	Use the VGA port to connect a display to the system.
7	USB 3.0 port (1)	Use the USB 3.0 port to connect USB devices to the system. These ports are 4-pin, USB 3.0-compliant.
8	iDRAC dedicated port	Enables you to remotely access iDRAC. iDRAC is very useful for remote management and direct access of the appliance.
9	System identification button	The System Identification (ID) button is available on the back of the system. Press the button to identify a system in a rack by turning on the system ID button. You can also use the system ID button to reset iDRAC and to access BIOS using the step through mode.
10	OCP NIC port (optional)	This port supports OCP 3.0. The NIC ports are integrated on the OCP card which is connected to the system board.
11	NIC port (2)	The NIC ports are embedded on the LOM card that is connected to the system board.
12	BOSS S2 card (optional)	This slot supports the BOSS S2 module.

Inside the LiveWire Core 1200

CAUTION! Many repairs may only be done by a certified service technician. You should only perform troubleshooting and simple repairs as directed by the LiveAction support team. Damage due to servicing that is not authorized by LiveAction is not covered by your warranty. Read and follow the safety instructions that are shipped with your product.

Note A defective drive should have a consistent RED blinking LED which should make it easier to detect.

Internal components
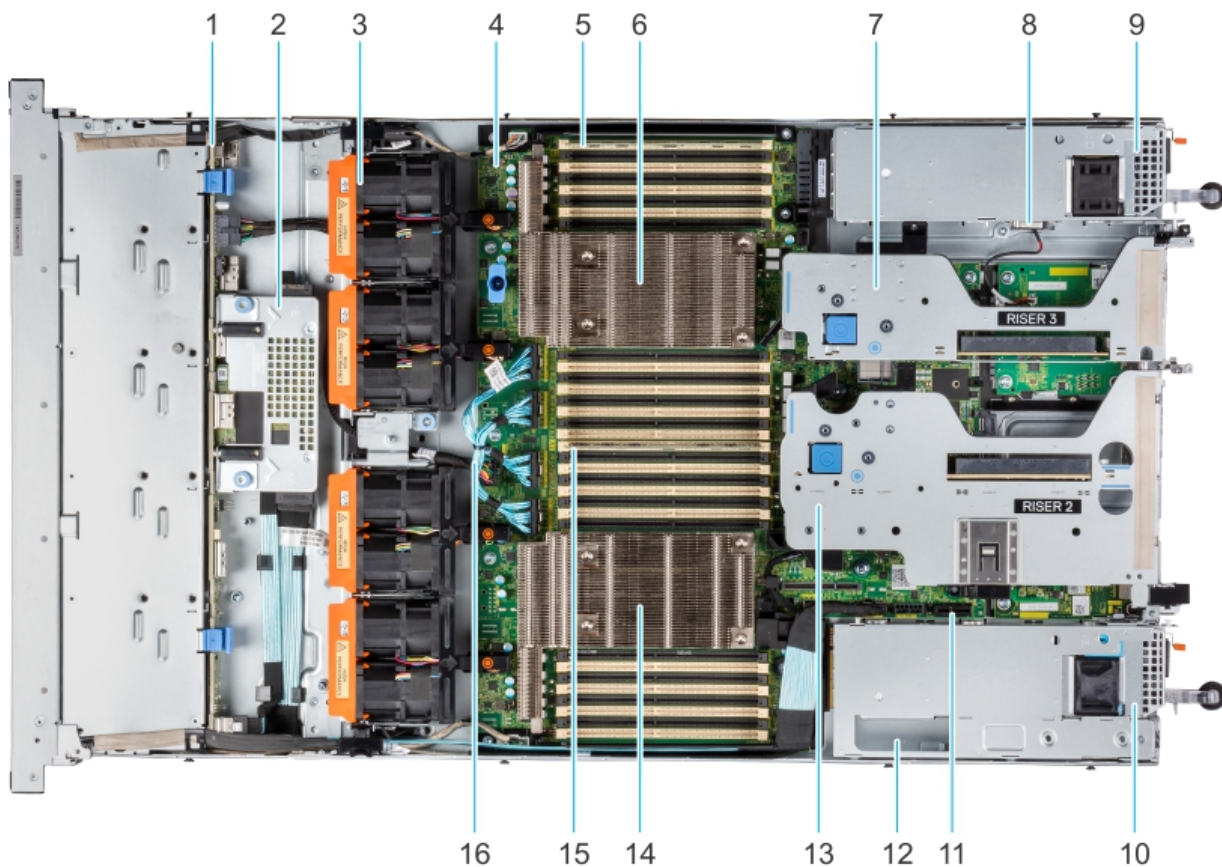
Item	Description
1	Drive backplane
2	Rear mounting front PERC module
3	Dual fan module (4)
4	System board
5	Memory DIMM socket for processor 2 (B1)
6	Heat sink for processor 2

Item	Description
7	Riser 3
8	Intrusion switch
9	Power supply unit (PSU 2)
10	Power supply unit (PSU 1)
11	IDSDM/Internal USB card port
12	BOSS slot
13	Riser 2
14	Heat sink for processor 1
15	Memory DIMM socket for processor 1 (A1)
16	xGMI cables

Note A defective drive should have a consistent RED blinking LED which should make it easier to detect.

Installing LiveWire Core 1200

To install LiveWire Core 1200:

1. Place LiveWire Core 1200 on a flat surface, or mount it in a standard 19-inch equipment rack.

2. Connect a power cable to each of the two power outlets at back of the unit.

Note LiveWire Core 1200 has two redundant high-efficiency "hot-swappable" power supplies. If a power module fails, it should be replaced immediately. If your LiveWire Core 1200 is under warranty, please contact Technical Support to arrange for a replacement power supply.

3. Plug the other end of the power cables to an AC outlet.

Important! WARNING: This device has more than one power cord. Disconnect ALL power supply cords before servicing.

AVERTISSEMENT: Cet appareil a plus d'une cordon d'alimentation. Débranchez TOUTES les cordons d'alimentation avant l'entretien.

Connecting network cables

LiveWire Core 1200 includes Gigabit Ethernet ports and Integrated Remote Access Controller (iDRAC) ports used for remotely accessing and troubleshooting LiveWire Core 1200. See 'LiveWire Core 1200 front / back panels' on page 4 for the location of these ports.

To connect network cables:

◦ Use a standard Ethernet cable to connect these ports to your network.

Tip To reach LiveWire Core 1200 through an SSH connection, you can use an Ethernet cable connected directly between the Gigabit Ethernet port on LiveWire Core 1200 and your PC or

laptop. LiveWire Core 1200 eth0 port is configured at the factory to have a DHCP IP address with a fail over to 192.168.1.21. The PC or laptop must be configured to be on the same IP subnet.

System fans

LiveWire Core 1200 has multiple cooling fans that are used to cool the system chassis. If any one of the fans fail, it should be replaced immediately. If your LiveWire Core 1200 is under warranty, please contact LiveAction Technical Support to arrange for a replacement fan.

Important! The chassis top cover must be properly installed in order for the cooling air to circulate correctly through the chassis and cool the components.

Important! WARNING: Slide/rail mounted equipment is not to be used as a shelf or a work space.

AVERTISSEMENT: Le matériel monté sur rails/coulisseaux ne doit pas être utilisé comme étagère ou espace de travail.

LiveWire Core 1200 activation

Once LiveWire is installed, when you attempt to connect to it for the very first time, you must activate the product before it can be used. You can activate LiveWire either from logging directly into a web-based version of Omnipeek, or from the **Capture Engines Window** in Omnipeek.

Both an automatic and a manual method are available for activation. The automatic method is quick and useful if you have Internet access from the computer from where you are performing the activation. If Internet access is not available, the manual method is available; however, you will need to go to a computer that does have Internet access in order to download a License file that is required to complete the manual activation.

You will need to enter the following information to successfully activate LiveWire, so please have this information readily available:

- ◦ IP address of LiveWire
- ◦ Product key
- ◦ User name
- ◦ Company name
- ◦ Email address
- ◦ Version number

Activation via Omnipeek Web

To activate LiveWire via Omnipeek:

1. From your web browser, type the IP address of LiveWire into the URL field of the browser and press **Enter**. The Omnipeek login screen appears.
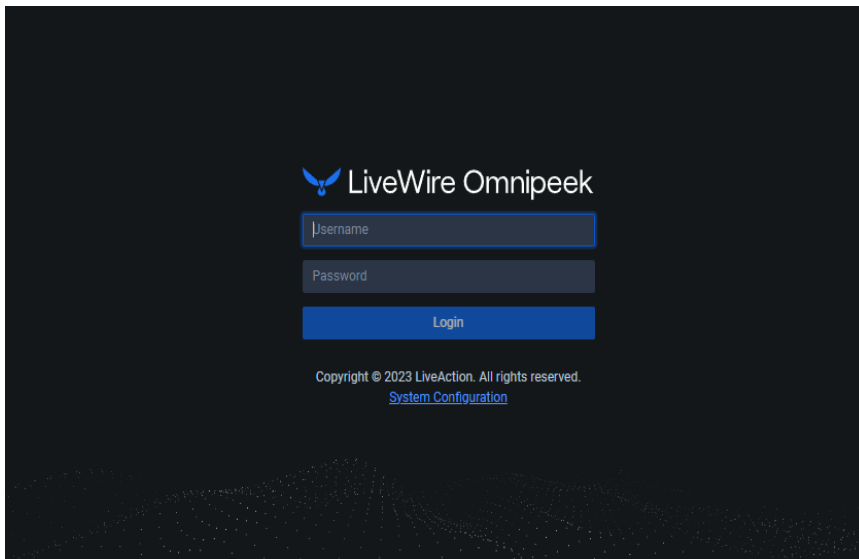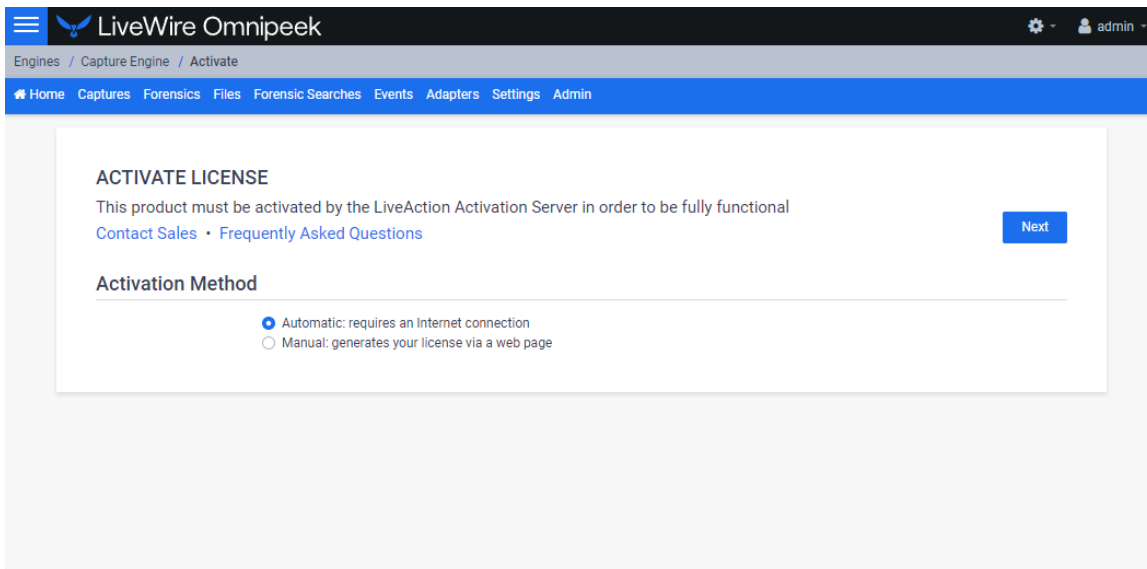
- ◦ *Username*: Type the username for LiveWire. The default is *admin*.
- ◦ *Password*: Type the password for LiveWire. The default is *admin*.

2. Type the *Username* and *Password* and click **Login**. The Omnipeek *Activation License* window appears.

> *Note* You can also access the Omnipeek *Activation License* window by clicking *Update License* from the Capture Engine *Home* screen in Omnipeek.

3. If your client has an active Internet connection, select *Automatic* and click **Next**. The **Customer Information** window appears. Continue with Step 4 below.

- ○ *NAME:* Type the user name of the customer.
- ○ *COMPANY:* Type the company name.
- ○ *EMAIL:* Type the email address of the customer.
- ○ *PRODUCT KEY:* Type the product key.

If your client does not have an active Internet connection, or you are prevented from accessing the Internet using personal firewalls, or there are other network restrictions that may block automatic activations, select *Manual* and click **Next.** The **Manual Activation** window appears. Skip to Step 5 below.

Note The manual activation method is available for instances described above; however, you will need to go to a computer that does have Internet access in order to download a License file that is required to complete the manual activation.

Note The *Locking code* displayed in the window above is required in Step 6 below. You can click the small icon next to the code to save it to the clipboard so you can paste it into the Locking Code field in Step 6 below.

4. Complete the Customer Information window and click **Next**. LiveWire is now activated and you can begin using the product. The activation process is complete.

Note If the automatic activation does not complete successfully, go back and select the manual activation process. Personal firewalls or other network restrictions may block automatic activations.

5. Click the *activate* link (*https://mypeek.liveaction.com/activate_product.php*) in the window. A web browser page opens that allows you to activate your LiveAction product and to obtain and download a license file. The license file is required to complete the manual activation.

Activate Your LiveAction Product

Use this form to activate LiveAction software in instances where the machine you are installing on doesn't have an internet connection.

PLEASE NOTE: This form is only used to activate version 12.0 and later of our Omnipeek and Capture Engine products. If you have a version previous to 12.0, please go to **https://reg.savvius.com** to manually activate your product.

Version:	-- ▼ . -- ▼	Enter only two numbers, e.g. for 3.0.1, enter 3.0.
Product Key or Serial Number :		
Locking Code:		During installation of your product, this value will be displayed on your screen. Please enter it exactly as shown.
First Name:		
Last Name:		
Email Address:		
Company:		
	ACTIVATE PRODUCT ▶	

6. Complete the information on the activation page and click **ACTIVATE PRODUCT**. The following page appears once the activation is complete.

7. Click **DOWNLOAD LICENSE FILE** to save the license file to your computer. You will need the license file in the following steps.

8. Return back to the to the **Manual Activation** window, and click **Choose License File**.

9. Navigate to the license file downloaded above and click **Open**.

10. Click **Next** in the **Manual Activation** window. LiveWire is now activated and you can begin using the product. The activation process is complete.
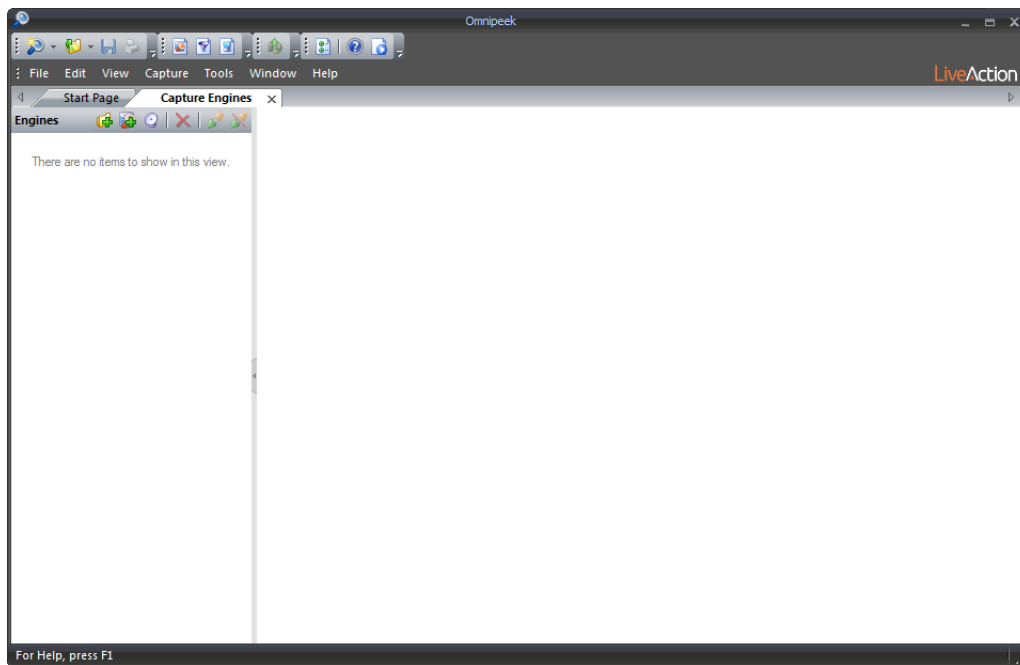
Activation via Omnipeek

> *Note* Activation of LiveWire via Omnipeek is supported on Omnipeek version 13.1 or higher.

To activate LiveWire via Omnipeek:

1. From the Omnipeek Start Page, click **View Capture Engines** to display the **Capture Engines** window.

2. Click *Insert Engine* and complete the **Insert Engine** dialog.
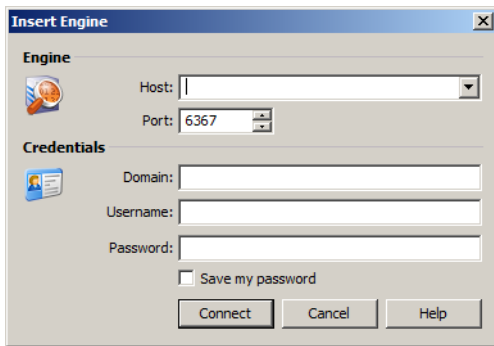
- ○ *Host*: Enter the IP address of LiveWire.

- ○ *Port*: Enter the TCP/IP port used for communications. Port 6367 is the default for LiveWire.

- ○ *Domain*: Type the Domain for login to LiveWire. If LiveWire is not a member of any Domain, leave this field blank.

- ○ *Username*: Type the username for LiveWire. The default is *admin*.

- ○ *Password*: Type the password for LiveWire. The default is *admin*.

- ○ *Save my password*: Select this option to remember your password to connect to LiveWire.

3. Click **Connect** to connect to LiveWire. If LiveWire has not yet been activated, the activation message appears in the **Capture Engines** window.
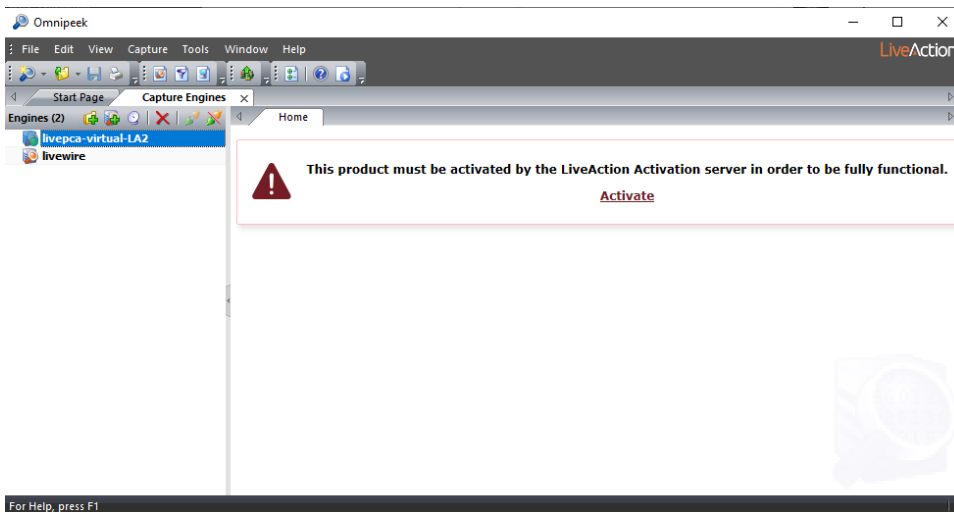
4. Click *Activate* LiveWire. The **Activation Method** dialog appears.

5. If your client has an active Internet connection, select *Automatic* and click **Next**. Otherwise, select *Manual* and click **Next.** The **Customer Information** dialog appears.

- ° *User Name*: Type the user name of the customer.
- ° *Company Name*: Type the company name.
- ° *Email*: Type the email address of the customer.
- ° *Serial Number or Product Key*: Type either the serial number or product key.

6. Complete the **Customer Information** dialog and click **Next**. If you selected the *Automatic* activation, LiveWire is now activated and you can begin using the product. The activation process is complete.

    If you selected the *Manual* activation, the **Manual Activation** dialog appears. You will need to continue with the remaining steps.

    Note   The manual activation method is available for instances when a computer does not have Internet access; however, you will need to go to a computer that does have Internet access in order to download a License file that is required to complete the manual activation.

> **Note** The *Product Key*, and also the *Locking Code* displayed in the **Manual Activation** dialog are required in the next step. You can cut and paste this information from the **Manual Activation** dialog when required in the next step.

7. Click the *activate product* link (*https://mypeek.liveaction.com/activate_product.php*) in the dialog. A web browser page opens that allows you to activate your LiveAction product and to obtain and download a license file. The license file is required to complete the manual activation.
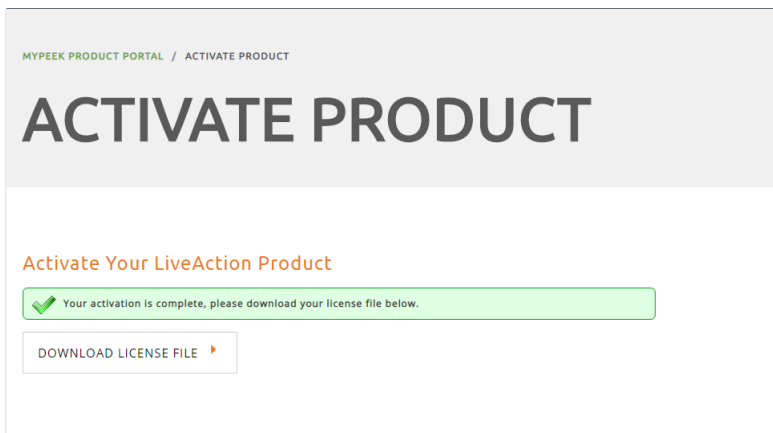

8. Complete the information on the activation page and click **ACTIVATE PRODUCT**. The following page appears once the activation is complete.

MYPEEK PRODUCT PORTAL / ACTIVATE PRODUCT

ACTIVATE PRODUCT

Activate Your LiveAction Product

✔ Your activation is complete, please download your license file below.

DOWNLOAD LICENSE FILE ▶

9. Click **DOWNLOAD LICENSE FILE** to save the license file to your computer. You will need the license file in Step 11 below.

10. Return to the **Omnipeek Product Activation** dialog, and click **Next**. The **Manual Activation/Choose the license file** dialog appears.

Product Activation

Manual Activation
Choose the license file

License file:

[   ] Browse...

< Back   Next >   Cancel
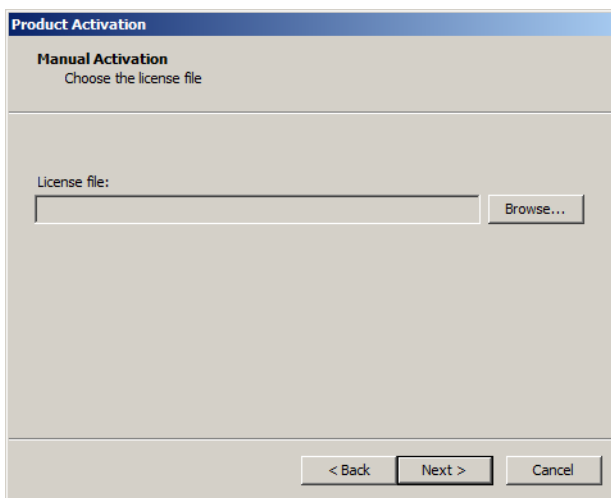
11. Browse to the license file that was downloaded above and click **Next**. LiveWire is now activated and you can begin using the product. The activation process is complete.

Starting / shutting down LiveWire Core 1200

To start LiveWire Core 1200:

○ LiveWire Core: Press the power button in the upper right corner on the front of the chassis.

To shutdown LiveWire Core 1200:

○ Click the actions link at the top of the configuration utility to display the Actions dialog, and then select Power Off option.

○ SSH, or use a console connection to LiveWire and use the 'shutdown' command from the command prompt (*admin@livewire*):

shutdown -h now

> **Note** You can also use the iDRAC interface to shutdown and start LiveWire Core 1200. See the LiveWire User Guide.

Attaching the front bezel

To attach the front bezel on the LiveWire Core 1200:

- ◦ Attach the front bezel by inserting the locking hooks into the front chassis of LiveWire Core 1200. The bezel should be centered between the two black tabs on the left and right of the chassis.

Contacting LiveAction support

Please contact LiveAction support at *https://www.liveaction.com/support/technical-support/* if you have any questions about the installation and use of LiveWire.

An RMA (Return Material Authorization) number must be obtained from LiveAction before returning hardware. Please contact LiveAction technical support at *https://www.liveaction.com/support/technical-support/* for instructions.