

License Server Process Automation and Imaging



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Icons Used Throughout License Server

The icons in the following tables are from the main screen of **License Server** and include most of the icons that appear throughout the windows discussed. Further details about **License Server** along with in depth explanations of all its features and their respective icons can be found in the <u>License Server User Guide</u>.

License Server Features (Main Window)					
Lef	t Side (Top To Bottom)	Top Row (Left To Right)			
Call Call	Display / Access Licensing Info	rmation			
	PXE Configuration		Configure / Access DHCP Settings		
	BIT (Burn In Testing)	HON	Take Remote Control Of Client / End Point		
	Reimaging Operating Systems		XView IP Monitoring Tool (overview of the PXE network segments)		
*	Access Device Drivers				
(FIII)	Database Services				
	Reporting				

Table 1
 License Server Icons For Its Main Features

Action Buttons						
	Common		XErase			
	Save/Update	•	Login User			
	Save As	6	Display / View Sectors			
	Add Element		Start Erasure			
	Remove Element		Stop Erasure			
	Build Report(s)					
*	Settings (LC) Erasure Methods (XErase)		License Server			
43	Refresh Information (LC) Rescan Devices (XErase)		Set Profile as The Default			
\$ °	Configure Setting (LC) Edit User Fields (XErase)	+ -	Scale View Up (+) or Down (-)			

Table 2 License Server Action Icons / Buttons



Introduction

Welcome to **License Server** by Extreme Protocol Solutions, the completely automated solution for network based data erasure, component testing and software re-imaging.

This solution eliminates the need for several steps in your current process by combining data erasure, component testing and system re-imaging, into a single customizable process. This solution supports whatever sanitization standard required whether it be DoD, NAVSO, NIST or any one of the various methods included with our software. The software can easily adapt to accommodate any future data erasure or disk sanitization standards.

Component testing automates Passmark's[™] **Burn In Test** which imports the results for seamless testing. If re-imaging systems is part of the refurbishment process, the customization and automation aspects of the product will prove to be a step up from current methods. Features such as dynamic driver and program injection will significantly increase the efficiency of the refurbishment process.

There is no other software product on the market today that has the capabilities and controls, many of which are included at no extra charge, that are found in **Extreme Protocol's**, **License Server**.



Figure 1 License Server - Main Screen Displaying Licensing



Features At A Glance

Erasure

The main feature of **License Server** which is to run erasures on devices after they are booted. It features all the power and functionality of our industry leading erasure software, **XErase Enterprise Data Erasure**, in an integrated platform.

Component Testing

Under license from Passmark[™], **EPS** has integrated the industry leading capabilities of their **Burn In Test** (BIT) component testing into License Server. Once licensed, this feature enables the testing of most of the major components built into devices such as systems and laptops (i.e., processor, memory, keyboard, etc.) according to accepted industry and refurbisher standards.

Imaging

EPS has developed a superior methodology for implementing the principals of the Microsoft Refurbisher program. What was a two or three step process has been automated to become a single network based process that saves time and reduces cost as well as manpower needs.

Device Drivers

This feature can be used to customize various drivers for devices that will be erased or tested.

Database Services

Included with XErase is the ability to interface to various ERP databases (i.e., Makor, Razor, CycleLution, to name a few; additional licensing may be required) with information related to assets and the results of their erasure and/or testing. Refer to the <u>XErase User</u> <u>Guide</u> for further details.

Reporting

Reports can be generated for completed erasures, BIT and reimaging in various formats (i.e., PDF, HTML, CSV, etc.). Sample report templates are provided from which company specific reports can be customized and created according to requirements.

Remote Control And XView IP Monitoring Tool (Built In)

This tool displays a consolidated view of all the successfully booted endpoints from a network (segment) perspective. The minimized view will show the status (i.e., running erasures, BIT, etc.) of the end point from which the remote control window for the endpoint can be started once the minimized view is opened. It is a convenient way to manage multiple end points on multiple PXE networks.



Preparation

Licensing

Ensure that an active license is available for the desired features. This guide describes the basic configuration using just the **XELTwin** (**XErase** light) license. Questions related to licensing should be referred to <u>sales@extremeprotocol.com</u>.

	License			
		Number		
<u>Feature</u>	<u>Name</u>	<u>(min.)</u>	<u>Type</u>	<u>Use</u>
License Server		1	Poquirod	PXE Server
XErase Light		AELIWIN I Require		XErase on the client
Burn In Test	XEBITwin	1	Ontional	Testing internal
Duininitest		I	Optional	components
			.	Reimaging the client
Reimaging	XEIMGwin	1	Optional	with its operating
				system
Verification	3RDVFYwin	1	Optional	3 rd Party Verification

 Table 3
 License
 Server Licensing

Windows Requirements

- Systems running Windows 7 10 can handle a maximum of up to 20 endpoints.
- Windows Server has no PXE limitations and is set to boot up to 250 IP addresses (endpoints). Many systems designed to act as a "server" (i.e., not a desktop, workstation, laptop, etc.) have 4 ethernet ports which, if used, can expand the capability. Contact your local IT team(s) for further details.

Terms, Concepts, Prerequisites

Networking - A working knowledge of networking concepts and configuring ethernet ports is highly recommended. Consult with the local IT networking team for any issues or technical questions specific to your environment.

DHCP (Dynamic Host Configuration Protocol) – License Server's integration of PXE boot uses DHCP to assign addresses automatically to the endpoints on the designated ethernet interfaces. Ensure the system to be used as the "server" (where License Server will be installed/running) has at least one (1) unused ethernet adapter to which DHCP will assign the address.

The default addresses will be:

Network: 10.100.1 Server: 10.100.1.2 First Client: 10.100.1.10 Range for all possible clients: 10.100.1.10 to 10.100.1.254



If a static address is required, refer to the "<u>how to</u>" file which is added during the installation of License Server.

PXE (Preboot Execution Environment) – Methods that allow a computer without a running operating system to be configured and booted remotely. It is built into the hardware (BIOS) and should work by default without any modification to its configuration.

Network Switch - Device which enables a network connection between the server and client once the cables have been connected into each of their respective ethernet ports.

TFTP (**T**rivial **F**ile **T**ransfer **P**rotocol) – The means for transferring (copying) the files required to boot a client from the server to the client / end point.

Server – The system on which **License Server** is installed. Review the system to determine which <u>unused</u> ethernet port can be configured for the PXE network and ensure the following are set for the selected interface. Consult your local IT team for technical assistance as/if necessary.

Settings Location (->Tab)	Attribute	Setting
Properties	Client For Microsoft Networks File and Printer Sharing For Microsoft Network Internet Protocol Version 4 (TCP/IPv4)	Enable/select
	All others	Disable/deselect
Configure -> Power Management	Allow the computer to turn off this device to save power	Disable/deselect
Configure > Advanced	Interrupt Moderation	Disable/deselect
Conligure -> Advanced	Priority & QoS	Disable/deselect
Network -> Firewall	All network related	Turn off/disable

 Table 4 PXE Interface - Recommended Attributes

<u>Note</u>: Many systems will have an ethernet **IPMI** (Intelligent Platform Management Interface) port. Do not use this dedicated single purpose port. It is not designed to be used for normal TCPIP traffic.

Client / End point – The device (system, laptop, etc.) which will have its resources erased/tested/etc. For the purposes of this document, the client will be a laptop and an erasure with the default settings will be initiated. It is assumed the reader knows how to invoke the BIOS and/or begin the network boot process once the client is powered on.



Install License Server

The following describes a fresh installation. Refer to <u>Appendix B – Troubleshooting And</u> <u>Hints</u> for details on how to <u>reinstall</u> License Server.

- 1. Download and launch the installer.
- 2. Once the installer is opened, confirm that **Web** is (pre)**selected**. If anything other than **Web** is preselected by default or the installer is all "grayed out", the system the installer is running on may not be connected to the network (i.e., "the internet"). Close the installer and correct the issue before proceeding.
- 3. Click in the field (or the dropdown arrow) to the right of **Product** and select **EPS** License Server / PXE platform from the choices.

EPS Instal	ler v 4.7.1		– 🗆 X
File Help	Installat	ion	Extreme Protocol Solutions
X	Source Web Local Archive	Product Version	Choose a Product Choose a Product XErase Enterprise Data Erasure XErase Mobile Erasure EPS License Server / PXE platform EPS Bootable Creator
2	Install Folder Product not selected		Extreme Development System Extreme SCSI Extreme Performance Extreme Manufacturing Scriptgen Extreme Field Performance Control
		200	Install

Figure 2 The EPS Installer For License Server

4. Ensure Version is still defaulted to Official Release, then click Install .

Watch the installer as it may update itself, then restart. If that happens, once it is (re)started, and the selections are confirmed, click Install.



5. Close the installer once the desired product is installed using either **File -> Exit** or by clicking the **X** in the upper right corner of the window.



Figure 3 EPS Installer – Post Installation

Start License Server

 Start License Server either as specified in the installer (dialogue field of Figure 3) or open File Explorer, navigate to c:\LCServer and double click K LCServer.

During startup, **License Server** checks to see if updates are available. If any exist, a window labeled, **Product Updates Are Available**, will appear.



Figure 4 Notification That Updates Are Available



- 2. Click data and allow the installation to complete. The window will close itself once it is done.
- 3. Click And confirm the source for the license. If it needs to be changed, select the correct source from the list in the drop down next to **Source**, then, before clicking another action/icon or any other area of the window, remember to save the update with a. At least one (1) license to "**XELTwin**" must be installed and available for use after the client is booted.

Refer to Prerequisites for further assistance.

Configure DHCP

The following assumes the reader is familiar with the hardware as well as how to interpret the output of basic Windows commands of the server (where License Server is installed), endpoint and network switch.

- 1. Determine which ethernet port on the system ("server") will be used. Do not select the wireless or Bluetooth adapter.
- 2. Open the network settings (properties) for the desired ethernet adapter, select **Internet Protocol Version 4 (TCP/IPv4**), click the **Properties** button and confirm that **Obtain an IP address automatically** and **Obtain DNS server address automatically** are selected.

General	Alternate Configuration					
You car this cap for the	n get IP settings assigned ability. Otherwise, you ne appropriate IP settings.	automati eed to asl	cally if y cyour r	our ne networ	etwork s k admini	upports strator
) () ()	otain an IP address autom	atically				
	e the following IP address	s:				
<u>I</u> P ac	ldress:					
Sybr	iet mask:					
<u>D</u> efa	ult gateway:				1.0	
	otain DNS server address	automati	ally			
	e the following DNS serve	er addres	ses: —			
Prefe	erred DNS server:				1.0	
<u>A</u> lter	nate DNS server:					
V	alidate settings upon exit				Ad <u>v</u> a	nced
				OK		Cancel

<u>Note</u>: If a static address is desired, refer to the file, c:\LCServer\HOW_TO_DHCP_Manual.txt.



- 3. Verify that the server and client have an (known working) ethernet cable connected to their respective ethernet port as well as in a port on the switch, and that a green LED is displayed on the switch port each is connected to. The client's port will only be lit if a power cord is plugged into it or the battery is good and has enough charge on it. Using the power cord is recommended. Some older models may need to be powered on to the BIOS/setup screen before an LED is lit.
- 4. Click the drop down under **Enable License Server Thread** and select the desired level of information to display.
- 5. Click and respond to the prompt to autoconfigure DHCP/TFTP.
- 6. Review the list of ethernet interfaces and select the one to use (i.e., the one from step 2). Do not select the interface the system is currently using to connect to the infrastructure (i.e, the "internet"/corporate network).
- 7. To the right of the listing of interfaces, click the top field and select Active.
- 8. Unless there is a known issue (conflict), leave the field beneath set to **10.100.1.2**.
- 9. Click to 🔊 update and save the DHCP information.

🔀 EPS Erasure/Imagi	ing Automation Server v11.2.5			- 🗆 X
View Configure O	perator Licensing Other Help			
O	License Server			Extreme Protocol Solutions
	Select an Adapter, Change its status, and h	it Update		
John .	▼ +/- 0 0 0 0	Enable DHCP/TFTP		
	Microsoft Wi-Fi DVirtual Adapter #4 Microsoft Wi-Fi DVirtual Adapter #5	Static 10.100.1.2 Dynamic 169.254.144.213	Active	Updates DHCP Settings File
	Realtek PCIe GBE Family Controller TAP-Windows Adapter V9	DHCP 169.254.195.146 Dynamic 169.254.230.116		
	Realtek RTL8723DEb/g/n PCIe Adapter	Dynamic 192.168.1.147		
	Software Loopback Interface 1	Static 127.0.0.1		
	DHCP/TFTP Systems (0)			
	MAC Address IP Address	Expires At St	atus	

Figure 6 The DHCP Configuration Screen

10. After the system updates its DHCP configuration, the status of the DHCP based connection will be displayed. Anything other than **Ready** for both DHCP and TFTP



means DHCP was not successfully configured. Refer to <u>Appendix A</u> for suggestions that may help resolve the issue.



Figure 7 Displaying The Status Of DHCP

Set / Select The PXE Profile

Most of the devices that **License Server** was designed to manage are those which are not or should not be directly accessible, primarily laptops. In its simplest form, the **PXE Profile** replaces the need to manually launch **XErase** after the device is power up and PXE booted. Several sample profiles are included with **License Server** which can be modified and used or, once you are more familiar with how the profiles work, one can be created to fit your organization's requirements and used. Refer to the **License Server User Guide** for further details.

The following steps will use the "**DEMO PROFILE**" to illustrate the process. Refer to the **XErase User Guide** for a description of the **Configuration Categories** and their options.

1. Click 💻, then 😪



Figure 8 Selecting The PXE Profile To Use



2. Assuming it is not already displayed, click the field beneath **PXE Configuration Profiles** and select **DEMO PROFILE** (or the profile of your choice).



Figure 9 Displaying The List Of Available PXE Profiles

- <u>Note</u>: The options for the different Configuration Categories (on the left) can be viewed and/or updated at this time. If any updates are made that need to be retained, <u>remember</u> to save it with .
- 3. If the selected profile is to be the default (i.e., used every time any client is booted), click a.



Figure 10 Setting The Default PXE Profile



Boot The Client

For the purposes of this section, an IBM Thinkpad T420 laptop will have its internal disk drive selected to be erased. BIT and the other related features are discussed in the upcoming <u>License Server V11 User Guide</u>.

- 1. Confirm a known working ethernet cable is plugged into a working ethernet port on the laptop as well as into a port on the network switch to be used for the PXE network.
- 2. Power on the laptop and bring it up to the BIOS/setup screen (or start the network boot with the respective **F** key).
- 3. Once the BIOS menu appears, initiate a network boot.

It will take a minute or so to transfer the boot image from the server to the client and finish booting the laptop.

 After the boot image has been transferred, a new window will open on the client showing the status of each stage of the EPS Bootloader as it loads. Confirm valid information exists for the IP Address, LC Server and Override. Additional information can be found <u>here</u>.

EPS Boot Loader v 5.3.4	
File Misc Help	
	R8BC30G
Boot Configuration	OS Init
complete	User Batchrite Find USB/CD Override Initialize Network Enumerate Devices
	Find Network Override User BatchFile 2 Install Drivers Install Updates
Extreme Protocol Solutions	Launch
	IP Address 10.100.1.10 LC Server 10.100.1.2 Override y:
ExtremeProtocol.com EnterpriseDataErasure.com	
ExtremeProtocol.com EnterpriseDataErasure.com	Override y

Figure 11 The Final Stage Of Bootloader On The Client

Note: When the progress indicator reaches Launch, the laptop can be controlled from License Server using Remote Control.



- 5. After the bootloader completes, the **XErase** window displaying the disk(s) found on the laptop will be opened. Unless a profile which starts an erasure when launched is used, the disk needs to be manually selected.
- 6. Click the disk(s) to be erased and start the erasure by clicking ►. Note the licensing information in the title bar of the following figure. The license will be used once the erasure has been completed (i.e., passed or failed) after which, additional licenses will need to be obtained if additional erasures are to be run.



Figure 12 Starting An Erasure On A PXE Booted Client



Appendix A – Supplemental Information

Remote Control (Optional)

License Server's Remote Control enables the ability to control booted remote endpoints (a laptop in this document) from the system where **License Server** is running as though the operator was physically at the endpoint(s). It is available when the bootloader (running on the laptop/client/endpoint) reaches the **Launch** stage.

🔀 EPS Erasure/Imagi	ing Automation Server v11.2.5				1	- 🗆 🗙
View Configure O	perator Licensing Other Help					
200	License S	Server			Extreme	Protocol Solutions
	LC Ready 12070	DHCP Ready on	port 67 / 4011 TFTP	Ready on port 69 +		-7
and the	10 100 1 2	→ +/4	Enable DHCP/T	FTP		
	DHCP Managed Range DHCP Unmanaged Range DHCP Log Level TFTP Log Level EFI x64 Image EFI x64 Image Legacy Image	N/2 10. Qui Doc boc Use	100.1.10 -> 10.100.1.254 .et Logs .et Logs .t _10_x86.wim .t _10_x64.wim a x86 image			
	DHCP/TFTP Systems (1)				
	MAC Address	IP Address	Expires At	Status		
	00:21:cc:66:0f:2d	10.100.1.10	10:04:39	TFTP\x86\sources\boot_10_x86.wim	33.7%	
						\$

Figure 13 Displaying The Status Of Booted Clients

1. The status of the bootloader will be displayed in the lower portion of the DHCP window. Once the bootloader completes (the boot stage on the laptop should show **Launch** at this point), this information will clear from this area.

The recommendation is to wait until the information is cleared from this screen since the status (percentage on the far right) for the client is displayed. Once it reaches 100%, the client is booted and ready. Otherwise, the client will need to be checked for potential problems related to booting before continuing.

2. **Remote Control** can be opened at any time by clicking once the DHCP information is cleared or by using <u>XView</u>.



3. On the **Remote Control** screen, all successfully booted endpoints will be shown. Double click the line for the desired endpoint.

EPS Erasure/Ima	iging Automation Server v11.2	5 Hele		_	□ X
					Extreme Proto
	10.100.1.2 Systems Available fo	▼	uble Click an entry to launch remote		Contra la
*	IP Address	Serial Number R8BC30G	Description ThinkPad T420	View IP Address	Q

Figure 14 Displaying The Status Of The Client During PXE Boot

4. What is displayed on the laptop is now also displayed on **License Server**. To close the view, click the **X** in the upper right corner of the remote control window.

EPS Erasure/Imaging Automation Server v11.2.5	<u>201</u> 4		×
Image: Section of the section of t		⇒ (×
Image: Space Loader v 5.3.4 File Misc File Misc File Misc Image: Space Loader v 5.3.4 File Misc File Misc Image: Space Loader v 5.3.4 File Misc Image: Space Loader v 5.3.4 File Misc Image: Space Loader v 5.3.4			
SCSI: NIST 200,88741			
			v

Figure 15 Accessing A Booted Client Using Remote Control



XView IP Monitoring Tool (Optional)

XView is another built in feature designed to help make working with multiple endpoints easier. It can be used to monitor as well as control multiple endpoints (much like **Remote Control**) on multiple (preconfigured via DHCP) networks. As of this document, the only limitation to the size of the view is that the system running **License Server** and the client(s)/endpoint(s) must be in the same physical location.

- 1. Ensure the client has completed the bootloader portion and it shows **Launch** either directly or by opening (then closing) its **Remote Control** view.
- 2. On **License Server**, click 🔚 to open the monitoring tool.
- 3. Once open, the tool will display all the (pre)configured DHCP based networks with a placeholder for the potential addresses that can be assigned to clients after they are booted and complete their bootloader stage.

The status on the remote client will be displayed (monitored) in the minimized icon representing that endpoint.

4. To open a remote control session to an endpoint, double click on the icon representing the target endpoint.



Figure 16 Accessing A Client With XView



5. The endpoint's window will be displayed. To close the view, click the **X** in the upper right corner of the remote control window.



Figure 17 Remote Control Of A Client VIa XView



Appendix B – Troubleshooting And Hints

Firewalls – Given the complexity of customizing network firewall rules and the number of underlying ports used by License Server for PXE Boot as well as XErase, all the firewall rules on the system where License Server is running should be turned off until access to the internet (i.e., for installation/updates, network drives, etc.) is no longer required.

Ethernet Interface Used For PXE Boot – Systems that were recently built and shipped by/from EPS should have License Server already installed and preconfigured (tested). Use the port that is labeled, PXE immediately above it. As long as the correct ethernet port is used, there should be no further effort required to configure DHCP.

DHCP – Problems related to DHCP will usually be reported on the main screen of **License Server** (refer to Figure 7). They will also be displayed on the endpoint's bootloader screen – the fields in the <u>lower right portion</u> of the window of the bootloader on the endpoint/client will either have invalid/missing addresses or the "override" folder was not found/valid. Review the DHCP configuration and retry.

There may be cases where the interface that is to be used for PXE boot cannot be assigned an address by DHCP. One or more of the following suggestions may help in resolving the issue.



> View the interfaces and assigned addresses: **ipconfig**

Figure 18 Output Of ipconfig Via The Command Line

- > Release all addresses: ipconfig /release
- Release the address of a <u>specific interface</u>: ipconfig /release \$NETCONNECTIONID Display the value of \$NETCONNECTIONID: wmic nic get Name,NetConnectionID



- Renew all addresses: ipconfig /renew
- > Renew the address of a <u>specific interface</u>: **ipconfig /renew \$NETCONNECTIONID**
- > Review the settings as described <u>here</u> along with the <u>firewall</u> settings on the server.
- If the above does not resolve the issue, disconnect the system from the main network, release all addresses (or reboot, then) confirm with **ipconfig** and attempt to configure with only the **PXE** interface connected.
- As a last resort, the interface may need to be assigned a static address as described in the file, c:\LCServer\HOWTO_DHCP_Manual.txt. Contact your local IT support team for assistance.

Licensing – In order to use any of the features, at least one (1) active license must be found. The active licenses can be found either on the main window of License Server or once the client has been booted and XErase is launched - look in the title bar on the endpoint. If either location shows, "DEMO" or anything other than the number of licenses available, review the licensing requirements.

If "DEMO" appears in the title bar for **XErase**, it is also possible that there was a problem with the required repository (**c:\XERAS_override**) where the images and other critical files related to PXE reside. Review the installation or contact <u>EPS support</u> for assistance.

Reinstalling License Server – Once License Server is installed, a setup (aka, updates) executable specific to License Server is placed into c:\LCServer.

- 1. Open File Explorer, navigate to c:\LCServer and delete 🔀 LCServer
- 2. In the same folder, navigate to **updates** and erase/delete:
 - Ic_files.upd
 - LC_win.upd
 - > TOOLSwin.upd
- 3. Navigate back up one level (to c:\LCServer) and launch/double click 🔀 setup
- 4. Begin the installation at **Install License Server**, step 3.

Optionally, for a reinstallation "from scratch":

- 1. Open **File Explorer** and erase the folder **c:\LCServer** as well as **c:\XERAS_override**.
- 2. Follow the steps in Install License Server.

EPS Support – Use one of the following methods:

- Phone: (508) 278-3600
- Email: <u>support@extremeprotocol.com</u>
- Web: <u>http://www.enterprisedataerasure.com/support-request</u>
- Knowledge Base: <u>http://www.enterprisedataerasure.com/knowledge-base</u>