

# **KEMP 360**

## **KEMP 360 Central Activation Server Feature Description**

*VERSION: 8.0*

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## 1 Introduction

The KEMP 360 Central Activation Server functionality allows customers to quickly and easily activate KEMP LoadMaster Virtual Appliances. This licensing method enables flexible operational and deployment models to be supported instead of the standard single LoadMaster licensing model.

Activation Server is not included with KEMP 360 Central as standard. If you would like to discuss this further, please contact your local KEMP representative.

### 1.1 Document Purpose

The purpose of this document is to describe the Activation Server feature of KEMP 360 Central and provide instructions on how to use it.

### 1.2 Intended Audience

This document is only relevant to customers who are interested in alternative deployment mechanisms for KEMP appliances.

### 1.3 Prerequisites

Before Activation Server can be used, your KEMP 360 Central instance must be enabled to support it using a License Update. Please contact your local KEMP Representative for more information.

Activation Server Local (Activation Server) availability is based on your license with KEMP Technologies. The IP address assigned must be able to communicate with KEMP 360 Central.

To use Activation Server, you need an IP address and port number. This is the IP address and port number of the KEMP 360 Central instance being used to license the LoadMaster.

For details on how to retrieve these details refer to: **Section 2.1**.

## 2 Using the Activation Server Functionality

With KEMP 360 Central Activation Server functionality, it is possible to license a number of LoadMasters locally using KEMP 360 Central Activation Server - without the need to contact the KEMP licensing server. The maximum number of LoadMasters which can be licensed against the activation server depends on your license agreement with KEMP Technologies.

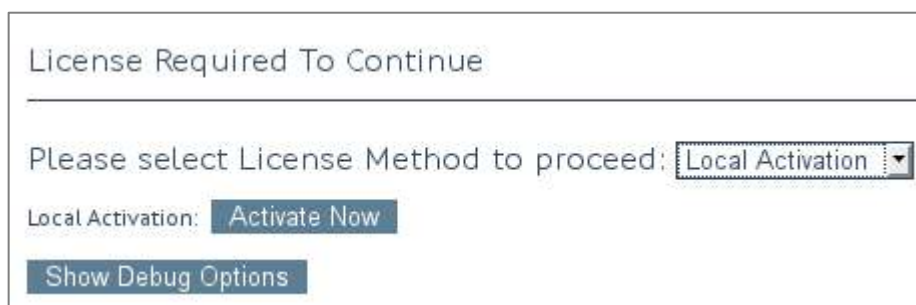
When you initially deploy an Activation Server-enabled LoadMaster, an **Activation Server Configuration** screen appears. Enter the details for KEMP 360 Central. The LoadMaster then contacts KEMP 360 Central to license the LoadMaster. Following licensing, the LoadMaster must be activated in KEMP 360 Central. Detailed, step-by-step instructions are provided in the following sections.

Activation Server only works with specific Virtual LoadMaster (VLM) builds. Please contact KEMP Support to access the VLM build for your Activation Server instance.

### 2.1 Retrieve the Details Needed to License a LoadMaster Using KEMP 360 Central

Before users can license a LoadMaster using KEMP 360 Central they must first retrieve the IP address (available on the About screen of KEMP 360 Central) and port number. Alternatively, you can type an FQDN (depends on customer environment) and port number and click **Set Hostname**.

### 2.2 License a LoadMaster Using KEMP 360 Central Activation Server



License Required To Continue

Please select License Method to proceed:

Local Activation:

Figure 2-1: Select License Method

When an Activation Server LoadMaster is initially deployed, a screen appears asking if you want to use online licensing or local activation.

Figure 2-2: Activation Server Configuration

When **Local Activation** is selected, the **Activation Server Configuration (Figure 2-2)** screen appears. If this screen does not appear, you are not using the correct version of the LoadMaster. Please contact a KEMP representative if this is the case.

The KEMP 360 Central (with Activation Server enabled) details must be configured in the LoadMaster web User Interface (UI) so the LoadMaster can contact KEMP 360 Central. Follow the steps below to activate the LoadMaster:

1. Type the **IP** address of KEMP 360 Central in the **IP address** text box and click **Set address**.
2. Type the **Port** to access KEMP 360 Central on and click **Set port**.
3. Alternatively, you can type the **Hostname** of KEMP 360 Central and click **Set Hostname**.

If using Azure - the internal IP address and host name can be found in the Dashboard screen of the KEMP 360 Central instance. The hostname is based on the instance name which is specified when originally creating the instance. If you are not using Azure, the default hostname is **K360Central**.

4. Click **Activate**.

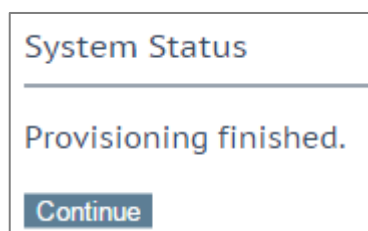


Figure 2-3: Continue

5. Click **Continue**.

The LoadMaster is now licensed against the Activation Server on KEMP 360 Central, thus using one of the available licenses.

## 2.3 Activate the LoadMaster in KEMP 360 Central

After completing the steps in the previous section, the LoadMaster is now licensed. However, the LoadMaster must be activated within KEMP 360 Central. To do this, complete the following steps in KEMP 360 Central:



Figure 2-4: Cloud icon

1. Click the cloud icon on the left.

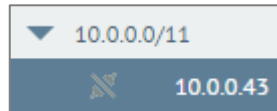


Figure 2-5: Select the LoadMaster

2. Select the relevant LoadMaster.



Figure 2-6: Edit

3. Click the edit icon in the bottom-left.

### Edit LoadMaster

Network	All Networks - 0.0.0.0/0	
IP Address : Port	1.2.3.4	: 80
Username	bal	
Password	.....	
Alternate WUI Access	lm1.cloudapp.com	: 443
Nickname	Azure LM1	

Figure 2-7: Enter Password

4. Enter the **Public Access Address** for KEMP 360 Central.

If using Azure, this is the DNS name which appears in the Dashboard screen for KEMP 360 Central.

5. Enter the **Port** used to communicate with the LoadMaster.

If using Azure, the **Port** should be set to **8443**.

6. Enter the **Password** used to access the LoadMaster.
7. Click **Save LoadMaster**.



Figure 2-8: LoadMaster is up

LoadMasters with a blue icon indicate that the LoadMaster was licensed using the Activation Server functionality. Green LoadMaster icons represent a LoadMaster which is in an up status but was not licensed using the Activation Server functionality.

ASL Instances					
Max ASL Activations Available: 10					
Current Number of ASL Activations: 1					
Mac Address	LoadMaster Version	Status	Activation Date	Boot Date	Last Kill Date
000d3a21cb0d	7.1-30a-VLM-AZURE_AS1-85	ACTIVE	2015-11-23T11:06:16	2015-11-23T04:09:23	

Figure 2-9: Activation Server Local (Activation Server) Instances

KEMP 360 Central keeps track of the activated systems by maintaining a list of activated VLMs and MAC addresses. This list can be accessed by clicking the cog icon and selecting **Metered Licensing Management**. Ensure the MAC addresses of the VLMs are unique by checking the VLM hardware options through a hypervisor. This will allow proper tracking of the VLMs. If the license limit of VLMs is reached, KEMP 360 Central will not activate any more VLMs. If the limit is reached, a warning message appears on screen and an existing active VLM instance must be unlicensed (deregistered) before a new VLM can be licensed. The maximum number of VLMs allowed is based on your agreement with KEMP Technologies. To deregister a VLM, refer to **Section 2.4**.

Alternatively, to add more available licenses to the KEMP 360 Central – please contact KEMP to update your license and then update the KEMP 360 Central license (click the cog icon > **License Management**; see **Feature Description KEMP 360 Licensing**).

The LoadMaster periodically checks for the presence of the Activation Server (KEMP 360 Central). If the Activation Server cannot be found, or there are any errors, an error message is displayed and the VLM stops working after a predetermined length of time based on your agreement with KEMP. If an activation check fails, an error message appears on the LoadMaster home screen indicating that activation failed.

## 2.4 Deregistering a VLM

VLM licenses can be deregistered and removed permanently if needed.

KEMP recommends taking a backup of the VLM configuration before deregistering it. Manual backups can be taken by going to **System Configuration > System Administration > Backup/Restore** in the main menu of the LoadMaster web UI, or by going to cloud icon >

network/LoadMaster > **System Configuration** > **System Administration** > **Backup/Restore** in the KEMP 360 Central interface.

When a VLM is deregistered it frees up another instance to be registered. For example, if you have reached the VLM limit (Activation Server license limit) and you deregister one VLM, you can now activate another VLM.

There are two ways to deregister the LoadMaster - using KEMP 360 Central or using the LoadMaster. Refer to the relevant section below for step-by-step instructions.

### 2.4.1 Deregister using KEMP 360 Central

To deregister a LoadMaster using KEMP 360 Central, complete the following steps:

1. Click the cloud icon on the left.

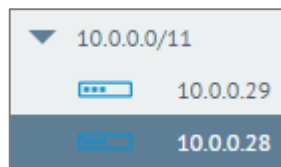


Figure 2-10: Select the LoadMaster

2. Select the LoadMaster to be removed.



Figure 2-11: Remove

3. Click the remove button (minus icon) in the bottom-left.
4. Click the **Kill Activation Server Instance** button to proceed.
5. The LoadMaster instance is rebooted and returns to the **Activation Server Configuration** screen when it comes back up.
6. There is now an available, free license instance in the Activation Server, which can be viewed on the System Administration page. This is because an active license has been removed.

### 2.4.2 Deregister using the LoadMaster WUI

Follow the steps below in the relevant VLM web UI to deregister it:

1. In the main menu, go to **System Configuration** > **Miscellaneous Options** > **Activation Server**.



IPaddr:	<input type="text" value="192.168.11.37"/>	<a href="#">Set address</a>
Activation Server Port:	<input type="text" value="443"/>	<a href="#">Set port</a>
Hostname:	<input type="text" value="k360-14.lnet11"/>	<a href="#">Set name</a>
Activation	<span style="color: green;">■</span> Last activation: 05/13/16 20:28:59	<a href="#">Activate</a>
Deactivate VLM instance		<a href="#">Kill LoadMaster</a>

Figure 2-12: Kill LoadMaster

2. Click the **Kill LoadMaster** button.
3. When the license is killed, the VLM automatically reboots. After the reboot, the VLM is unlicensed and **Activation Server Configuration** screen appears. The LoadMaster will also be removed from any KEMP 360 Central monitored networks it is attached to.
4. There is now an available, free license instance in the Activation Server. This is because an active license has been removed.

## 2.5 Download Metrics and Instance Data

Metrics and Activation Server instance data can be downloaded from KEMP 360 Central. To do this, complete the following steps:



Figure 2-13: Cog icon

1. Click the cog icon.
2. Select **Metered Licensing Management**.

▼ Report Data

Report Date from  to  [View](#) [Download](#)

Summary Report  [View MELA Report](#)

Figure 2-14: Download

3. Specify the date range and click **Download**.

To look at a graphical representation of the data, click **View MELA Report**.

## 2.6 Troubleshooting

If you try to license and there are any issues, a number of checks are performed automatically and the results and associated error message are displayed.



Figure 2-15: Failed Check

These checks perform the following tasks:

- Ping Default Gateway
- Ping DNS Servers
- Ping Licensing Server
- Ping Activation Server Server

You can also manually check the KEMP 360 Central debug log. If there are no entries relating to Activation Server, it means the connection to the Activation Server has failed.

## References

Related documents are listed below:

**Feature Description KEMP 360 Licensing**

## Document History

Date	Change	Reason for Change	Version	Resp.
Dec 2015	Initial draft	First draft of document	1.0	LB
Jan 2016	Minor changes	Updated Copyright Notices	2.0	LB
June 2016	Minor changes	Updated logos	3.0	LB
July 2016	Minor changes	Enhancements made	4.0	LB
Sep 2016	Release updates	Updates for V1.9 release	5.0	POC
Oct 2016	Minor changes	Enhancements made	6.0	LB
Jan 2017	Minor changes	Enhancements made	7.0	POC
Feb 2017	Minor changes	Enhancements made	8.0	POC