



Kaviza VDI-in-a-box™

Kaviza Kiosk Feature

Configuration Guide for version 3.1

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1 Kaviza Kiosk Feature Overview

The Kiosk feature allows you to convert an end point device into a Kaviza Kiosk where a pre-specified Kaviza desktop is automatically served onto the endpoint device. A user walking up to a Kaviza Kiosk sees only a desktop and so there is no additional training required.

This manual explains the various ways to create and configure Kiosks and provides best practices from the field. The next section describes two common use case scenarios and shows how to create kiosks to meet those needs. This is followed by the section “Getting Started” that provides step-by-step directions on how to create and configure Kaviza Kiosks.

This manual assumes you are familiar with templates (which are the “golden images” from which desktops are created) and how to create and manage Kaviza VDI-in-a-box™ solution. Please refer to *the Kaviza VDI-in-a-box™ Administration Guide* for details and instructions on creating and managing Kaviza templates.

2 Planning for a Kiosk deployment

You can configure an end point device to connect to a Kaviza desktop based on the IP address of the end point device.

Use case 1: You have a Kaviza deployment in a school district or a university and you want to convert the old PCs in your labs to work in ‘Kiosk’ mode. To do this you will need to go through the following steps.

1. First you will need to define templates for each of the labs. For example you can define a Kiosk template for the Engineering Lab students and a kiosk template for the Art Lab students.
2. Next you will need to assign the appropriate template to these PCs. You can do this by mapping the IP addresses of the PCs in the Engineering lab to the Engineering template and the IP addresses of the PCs in the Art lab to the Art template. You are now done.

Now, when a student logs in from the Engineering lab they will receive an Engineering desktop and a student logging in from the Art lab will receive an Art desktop.

There are several ways to assign the end points’ IP addresses to a template. The options are listed below:



Assign Desktop Templates

... by Users/Groups ... by Templates ... **by IP Addresses**

IP address mappings can be addresses (192.168.1.23), prefixes (192.168), or ranges (192.168.1.128-143). Specify multiple mappings with spaces or new lines.

IP Address Ranges	Template Name	Description
192.168.1.30-50	Art Lab	Art Kiosk
192.168.1.1-20	Engineering Lab	Engineering Kiosk
192.168.2.11 192.168.2.21 192.168.2.31	General Directory	General Directory
+		

Close

Note: There can be only one template assignment for an end point device. Hence for any given IP address, regardless of whether it is part of a range or not, there can be only one template assignment.

Option 1: You can assign IP Address ranges to a desktop template in the following forms:

192.168.1.128-143
192.168.0-3

When you do this, all the IP addresses in that range will be assigned to that template.

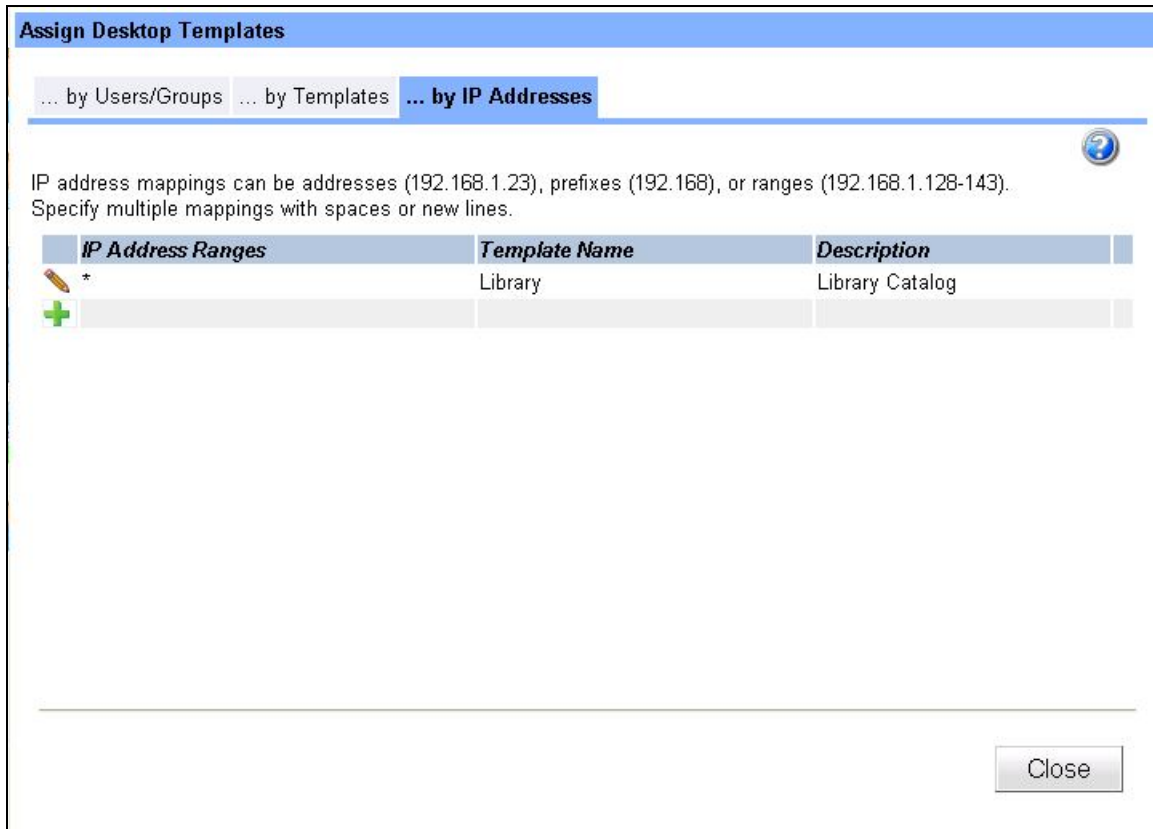
Example: The ‘Art Lab’ and the ‘Engineering Lab’ entries shown above.

Option 2: You can specify specific IP addresses to a desktop template:

192.168.1.23

Example: The ‘General Directory’ entry shown above.

Use case 2: You want to setup all the PCs in your National Library system to work in kiosk mode and you would like all of them to serve a desktop from one common template. You can do this by setting up an ‘**ANY IP address**’ entry denoted by a ‘*’ entry for the IP Address Ranges as shown below.



This is an example of how you can set up a common generic Kiosk template for any end point device. Of course, when you set it up this way, this will be the only entry allowed.

Note: If there is no IP address based template assignment for an end point device available from this screen and you are setting up an end point device to work in Kiosk mode, the system will attempt to deliver a desktop from the designated default template settings, if there is one in the system. If neither of these is available, the system will throw an exception message.

Best Practice: If you are setting up end point devices to work in Kiosk mode, it is recommended that you make explicit template assignments to the end point devices to ensure that the system delivers the proper desktop to the end point device and you in turn are able to manage and track these Kiosk sessions efficiently.

Other Assignment Options:

You can specify an IP Address prefix whereby all IP addresses with the specified prefix will be assigned to a desktop template:

192.168.2



192

You can optionally specify the “*” character in the octet after the prefix to indicate that all IP addresses starting with the prefix will be assigned to a desktop template. For example:

192.168.2.*

192.*



3 Getting Started

This section walks you through the step by step tasks required to set up end point devices to operate in ‘Kiosk’ mode.

Task 1: Assign the end point device to a template

Task 2: Configure the end point device to operate in ‘Kiosk’ mode

Task 3: Verify the kiosk connections through the Kaviza console

3.1 Task 1: Assign the end point device to a template

1. Log into the Kaviza console. Go to the ‘Admin’ tab. Click the ‘Assign Desktop Templates’ link. Navigate to the ‘... IP Addresses’ sub- panel and carry out the desired assignments.

The screenshot shows a web interface titled "Assign Desktop Templates". At the top, there are three tabs: "... by Users/Groups", "... by Templates", and "... by IP Addresses", with the last one being selected. Below the tabs, there is a help icon and a text block: "IP address mappings can be addresses (192.168.1.23), prefixes (192.168), or ranges (192.168.1.128-143). Specify multiple mappings with spaces or new lines." Below this is a table with three columns: "IP Address Ranges", "Template Name", and "Description". The table contains three rows of data, each with a pencil icon in the first column. The first row shows "192.168.1.30-50" mapped to "Art Lab" (Art Kiosk). The second row shows "192.168.1.1-20" mapped to "Engineering Lab" (Engineering Kiosk). The third row shows "192.168.2.11", "192.168.2.21", and "192.168.2.31" mapped to "General Directory" (General Directory). Below the table is a green plus sign icon and a "Close" button at the bottom right.

IP Address Ranges	Template Name	Description
192.168.1.30-50	Art Lab	Art Kiosk
192.168.1.1-20	Engineering Lab	Engineering Kiosk
192.168.2.11 192.168.2.21 192.168.2.31	General Directory	General Directory



3.2 Task 2: Configure the end point device to operate in ‘Kiosk’ mode

You can set up an end point device to operate as a ‘Kiosk’ in two ways.

1. Via the Kaviza Java Client
2. Via the browser Kiosk URL

Kaviza Java Client lets you setup a Kaviza Kiosk in two ways, the “Repeat” mode and the “Non-repeat” mode. In the “Repeat” mode the Kaviza Java Client will automatically re-launch a Kaviza desktop as users log out of the Kaviza desktop and will make sure there is always a Kaviza desktop available for the next user. When a Kiosk is in the “Repeat” mode, a user always sees a Kaviza desktop on the end point device.

In non ‘Repeat’ mode, when a user logs out of a Kaviza desktop, the user will be taken back to the end point device’s display. For a user to get a desktop they will need to launch Kaviza Client to get a Kaviza desktop.

Note: Setting up Kaviza kiosks in ‘Repeat’ mode provides a better lock-down control on the end-point device.

Note: Setting up Kaviza kiosks in ‘Repeat’ mode is available only via the Kaviza Client.

3.2.1 Via the Kaviza Client:

This section assumes familiarity with our Kaviza Client product. The Kaviza Client is a zero-install java client that can be dynamically downloaded on your end-point device using Java Web Start (javaws). Please refer to the Kaviza VDI-in-a-box™ End Points User Manual for more information on how to set up the Kaviza Client.

Kaviza Client can be launched to run in interactive or non-interactive mode by setting an optional parameter “interactive”. Kaviza Client shows its login/password console in the “interactive” mode, which is useful when the kiosk is serving HDX connection by letting the user login to the provisioned desktop without having to manually enter domain name or seeing an error message about incorrect username/password on the provisioned desktop’s logon screen.

3.2.1.1 Launching in ‘Repeat’ kiosk mode:

Kaviza Client can be launched from a web browser, a command shell, or a desktop shortcut. See Kaviza VDI-in-a-box end point Users Guide for a detailed description of



each of these approaches. We will describe how to launch Kaviza Client from a command shell in this document.

From the end point device command shell window, launch the Kaviza Client with additional options highlighted in bold text below:

```
javaws http://<kmgr address>/dt/kavizaclient.jnlp?"kiosk=true&repeat=true"  
or  
javaws http://<kmgr address>/dt/kavizaclient.jnlp?"kiosk=true&repeat=true&interactive=true"
```

Note: Pay attention to the quotes (“) in the command.

Tip 1: To abort the launcher, locate the ‘javaw’ process on your Windows Task Manager or on your linux process table and end it using the normal termination procedures.

3.2.1.2 Launching in ‘Non-Repeat’ kiosk mode:

From the end point device command window or shell window, launch the Kaviza Client with additional options highlighted in bold text below:

```
javaws http://<kmgr address>/dt/kavizaclient.jnlp?"kiosk=true"  
or  
javaws http://<kmgr address>/dt/kavizaclient.jnlp?"kiosk=true&interactive=true"
```

3.2.1.3 Launching with a pre-filled username such as ‘guest’:

By passing down the ‘username’ in the launcher command, you can pre-fill the Kaviza desktop with the user name entry.

```
javaws http://<kmgr address>/dt/kavizaclient.jnlp?"kiosk=true&repeat=true&username=guest"  
(or)  
javaws http://<kmgr address>/dt/kavizaclient.jnlp?"kiosk=true&username=guest"
```

Tip 1: Creating ‘javaws’ client short-cuts on your end point device will be a quick way to launch the Kiosk desktop.

Tip 2: Including the client in the end point device ‘Startup’ operation would be something to consider for quickly converting the end point device to a Kaviza Kiosk, upon boot up time.



3.2.2 Via the browser Kiosk URL:

3.2.2.1 Launching in ‘Non-Repeat’ kiosk mode only:

You can set up an end point device to operate in ‘Kiosk’ mode as follows:

<http://<kmgr address>/dt/kiosk>

3.2.2.2 Launching with a pre-filled username such as ‘guest’:

If you are interested in passing down a user name entry to the provisioned desktop, you can do this by sending the user name information as shown below:

<http://<kmgr address>/dt/kiosk?username=guest> where *guest* is the user name passed down.

Tip 1: Creating short-cuts with the bookmarked ‘Kiosk’ URL on your end point device will be a quick way to launch the Kiosk desktop.

Tip 2: If there is a browser available, this might be a quick way to test the Kiosk assignments.

3.3 Task 3: Verify the Kiosk connections through the Kaviza console.

Once the end point device is configured to operate in ‘kiosk’ mode, you can monitor these sessions from the Kaviza Console.

Navigate to the Desktops->User Sessions tab. All the ‘kiosk’ sessions will be marked with a ‘*’ in front of the User ID and the Client IP address columns as shown below. The ‘*’ identifier allows you to search and sort the Kiosk sessions easily.

User ID	Template	Server	VM	Address	Client	Login	Duration ▲	Kill	Status
* kiosk	KioskDefault	alpha6	KioskDefaultx1271648f10e	192.168.1.16	* 192.168.1.47	Mar 1, 2010 8:36 AM	23:45	✘	Kiosk ready...



4 Appendix

4.1 General Tips

1. Creating short-cuts on your end point device is a quick way to launch the Kiosk desktop. Example: You can set up bookmarked 'Kiosk' URL or 'javaws' short-cuts as the case may be.
2. Create 2 short-cuts each pointing to an unique Kaviza Client location in the grid. This will be useful if you are unable to launch the Kaviza Client application from any one of them.

4.2 Terminating Kiosk sessions

To terminate a kiosk session you can locate the 'javaw' process on your end point device and kill the process tree using standard process termination operations.

4.3 Best Practices

1. Maintain separate templates for use in 'kiosk-style' deployments. Use these templates only for end point device mapping and not for individual user or group assignments. This will allow you to manage and monitor the Kiosk sessions efficiently.
2. Consider implementing refresh policies that refresh the Kiosk desktops on a daily basis. You can choose the 'Based on schedule -> Daily' refresh policy option for these templates.
3. Consider configuring AD Group policies to prevent users from monopolizing the kiosk sessions. Implement policies that allow freeing up of the Kiosk desktop for other users when users are not actively using it. Some policies to consider:
 - Time limit for disconnected sessions
 - Time limit for active but idle Terminal Services sessions
4. Observe caution when you are changing desktop template assignments on functioning kiosks. The new desktop will be delivered to the end point device and the old desktops will still be kept around in Kaviza. Identify these orphaned Kiosk sessions and destroy them through the 'User Sessions' sub-panel.