

How To Configure SOLIDWORKS Visualize Boost 2023

TITLE:	How To Configure SOLIDWORKS Visualize Boost 2023
DATE:	September 2022
SUBJECT:	Setup and Configuration of SOLIDWORKS Visualize Boost
ABSTRACT:	Instructions on how to configure SOLIDWORKS Visualize Boost after install



This document has detailed instructions on how configure SOLIDWORKS Visualize Boost after it has been installed. For instructions on how to install and activate Visualize Boost, please see our <u>Visualize Boost</u> <u>2023 Install Guide.</u>

Before loading any software, you should always login with full administrative permissions and disable your anti-virus and anti-spyware programs.

This is not a troubleshooting guide. If you have any technical issues with SOLIDWORKS Visualize, please visit our <u>Help Center</u> or contact <u>Hawk Ridge Systems Technical Support</u>.

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Standalone and Cluster Configuration

After installing and activating Visualize Boost, the software can be used in conjunction with **Visualize Professional** to render projects over your network. For the majority of network setups, Visualize Boost can be used with the default settings. This section will go over how to access the Visualize Boost settings area, in addition to the options that are available for configuring multiple machines running Visualize Boost to be part of a cluster.

In order to access Visualize Boost, do one of the following:

- From the machine hosting Visualize Boost, launch the software via the Visualize Boost shortcut, or navigate to http://localhost:9031/config.html in Chrome, Firefox, or Internet Explorer.
- If you are on a client machine, launch Chrome, Firefox or Internet Explorer and navigate to either: http://<BOOST MACHINE HOST NAME>:9031/config.html or http://<BOOST MACHINE IP ADDRESS>:9031/config.html

Once the Visualize Boost user interface has loaded, navigate to the **Setup** tab.

Solidworks Visualize			Language English (United States)
Status	Setup	Help	

Within the **Setup** area of Visualize Boost, there are three options that can be set.

- 1. The **Cluster Name** field can be used to change the name of the Visualize Boost cluster. Available Boost clusters can be selected within Visualize Professional. Please see the Utilizing Visualize Boost section for information on how to select a Boost cluster form the client side.
- 2. Use the **Cluster Client Access Port** field to specify what port will be used when a client install of Visualize Professional connects to a Boost cluster. The default port is **8998**.
- 3. Within the Networking Mode area, one of four different system modes can be set for Visualize Boost. The default mode for Visualize Boost is TCP Mode with Discovery. Please see the following section for additional information on the differences between each selectable networking mode.



Networking Mode Options

There are four networking modes that can be used with Visualize Boost. An overview of each of these modes is listed below. Please see the illustrations associated with each option for more information on the networking modes.

1. **No Networking**. This mode is used when you do not want the machine hosting Visualize Boost to form a cluster with other Boost machines on your network.

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			Language English (United States)
Status	Setup	Help	
Cluster Name	į		DefaultName
Cluster Client	Access Port		8998
Networking M	lode:		 No Networking UDP Multicast Mode TCP Mode With Discovery (Default) TCP Mode
'No Networking will still be ava	g' prevents this Boos ilable to render, but	st service from commun will not form a cluster.	icating with any other Boost services on other machines. This Boost service
	Save Config	uration	Reset to Default



2. **UDP Multicast Mode**. This mode is recommended if your network supports UDP Multicast. Please see your network administrator for more information on your network setup.

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Status	Setup	Help	
Cluster Name	3		DefaultName
Cluster Client	Access Port		8998
Networking N	lode:		 No Networking UDP Multicast Mode ICP Mode With Discovery (Default) TCP Mode
Cluster Disco	wery Address		224.1.1.1:8994
support this ma Address', whic be a valid Mult	ode. In this mode Boo h are reachable throu licast IP Address, in th	st will form a cluster with any igh UDP Multicast, which is to be range 224.0.0.0 to 239.25	which is more efficient for large clusters. Some networks do not other Boost services configured on the same 'Cluster Discovery rpically your internal network. The 'Cluster Discovery Address' must 5255.255, and use a port above 1024. The default address is this mode does not work try TCP Mode With Discovery'.
	Save Configu	ration	Reset to Default



3. **TCP Mode with Discovery**. This is the default networking mode for Visualize Boost. When set, this will attempt to automatically connect all correctly configured Boost machines via TCP.

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Status	Setup	Help	
Cluster Name	9		DefaultName
Cluster Client	t Access Port		8998
Networking M	lode:		 No Networking UDP Multicast Mode TCP Mode With Discovery (Default) TCP Mode
Cluster Disco	wery Address		224.2.2.2:8995
Address' can e you wish to for example, if you	either be a valid multi m a cluster with. If us u have machine A wit Ister Discovery Addre	cast IP address and port (su ing non-multicast addresse h internal IP address '10.0.0	ing TCP communications rather than UDP. The 'Cluster Discovery ch as 224.2.2.38994), or the address and port another Boost Service s, provide one node its own address to make it the head node. For 100', and machines B and C on the same network; set each 224.2.2.238994'. If using a multicast address does not work, try using
	Save Configu	ration	Reset to Default



4. TCP Mode. Similar to TCP Mode With Discovery, this mode allows Visualize Boost machines to communicate via TCP. However, TCP Mode grants the ability to input specific machine addresses for configuration as part of a cluster. This mode is **not recommended** unless all other networking modes do not function correctly.

35 sc	DUDWC	ORKS Visualize	Language	English (United States)
Status	Setup	Help		
Cluster Name			DefaultName	
Cluster Client A	ccess Port		8998	
Networking Mod	le:		No Networking UDP Multicast Mode TCP Mode With Discove TCP Mode	ry (Default)
Cluster Access	Port for TCP Ma	de	8996	
Cluster Address (One IP per line)				7
designated the he node needs to be sets the port used was configured to	ead node, and it m in TCP Explicit m I by the cluster, the	n clusters using an explicit list of mac ust be provided the addresses of all ode but does not need to list all the o a addresses in the head node's addre should only be used if 'UDP Multicast' igure correctly.	the other nodes in order to comun ther nodes. The 'Cluster Access F ess list must specify the same port	licate with them. Every other Port for TCP Mode' option that each the other node
	Save Configu	iration	Res	et to Default

If either the UDP Multicast Mode or the TCP Mode With Discovery are selected, then you will need to input a Cluster Discovery Address. This address will be an IP address followed by a port above 1024. This port will be used for communication between machines hosting Visualize Boost. The following ports are the default for their respective networking modes:

- 8994 for UDP Multicast Mode
- 8995 for TCP Mode With Discovery
- 8996 for **TCP**



If any changes are made to the Setup area in Visualize Boost, the option for Save Configuration will need to be selected before any changes are implemented. Reset to Default can also be used to set Boost back to the default state.

Save Configuration	Reset to Default	

Utilizing Visualize Boost

In order to render with Visualize Boost while using Visualize Professional, please follow the steps listed below to connect to the Boost process.

- 1. Within Visualize Professional, navigate to **Tools > Options > Boost** tab.
- 2. In the **Boost** tab, select the **Scan** option to Scan for clusters.

	Options	\times
General	Profiles O	
3D Viewport		
User Interface		
Import		
Export		
Preview		
Boost		
Queue	Scan	
Auto-Recover	Add Searches the local network for any Boost servers	and crea
	Load	
	OK Cancel	

3. The name of your Boost cluster should show up under the **Profiles** area. Proceed to **step 6** if the Boost cluster shows up after scanning for it. If the cluster does not show up, click on the **Add** button.

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	Options			
General	Profiles C			
3D Viewport				
User Interface				
Import				
Export				
Preview				
Boost				
Queue	Scan			
Auto-Recover	Add			
	Load			
	OK Cancel			



4. In the new window that appears, you will be able to select the cluster type. If your cluster is utilizing NVIDIA VCA, select the **VCA** option. Otherwise, choose **Boost**.

>	<
Please choose the type of Network you want to connect to	
Boost	
NVIDIA VCA	

5. Input the name and address of your cluster into the **Name** and **Server Address** fields.



6. Click on **Connect** after inputting or verifying the **Name** and **Server Address** of your cluster.

	Option	S		×
General	Profiles	C		
3D Viewport	DefaultName Nodes: 1	×	Connection Status:	
User Interface			Inactive Name	
Import			DefaultName	
Export			Server Address	
Preview				<u>Set-up</u>
Boost			 PowerBoost Settings 	
Queue	Scan			<u>Show Log files</u>
Auto-Recover	Add			
	Load			
	Save			
	Connect			
	ОК	Cance		



 You should receive a message stating that the connection was successful. You should also see an updated **Connection Status**. If you would like to save this Boost profile for use on another machine, click on **Save**. From the other PC, click on **Load** to load the saved profile.

	Options		×
General	Profiles	⊖ 🔹 Boost Settings	
3D Viewport	DefaultName Nodes: 1	Connection Status:	
User Interface		Idle	
Import			
Export			
Preview			<u>Set-up</u>
Boost		PowerBoost Settings	
Queue	Scan		Show Log files
Auto-Recover	Add		
	Load		
	Save		
	Connect		
	Disconnect		
	ОК	Cancel	



8. To use the Boost cluster for rendering, bring up the **Output Tools** window and select the **Boost** icon found under the **Render Settings** section.

Output Tools	×
Default Profile 🔹	
Start Render	
Send to Queue	
Close	

For further assistance, please contact our support team at support@hawkridgesys.com, or 877-266-4469 (US) or 866-587-6803 (Canada).