Create tangible visions.

moreViz HMD Guide
Thank you very much for using moreViz - the universal VR Software bridge for CAD

moreViz bridges your app directly 1:1 into your existing VR environment. This guide aims at HMD (Head Mounted Display) users. For VR Powerwall and CAVE please refer to the matching guide, provided by your more3D representative or alternatively to be found in the installation directory of the moreViz software.

moreViz basically consists of two components for HMD:

1. The moreViz Client
   The moreViz Client receives the graphics data stream from the CAD application and renders it in VR. It needs to be launched before you start your CAD app.

2. The moreViz Server Control
   The moreViz Server control is used for configuring the connection type between your app and the VR Client. The moreViz Server control also features the moreViz Application enabler which lists and enables your apps for VR Bridging. The server control should be automatically run on system startup, it uses only very little system resources and does not establish any network connections to the internet.
**VR HMD Comparison**

This quick guide lines out the differences between the Oculus Rift, HTC Vive and Vive Pro.

Please note that the resolution is a two dimensional value, see “pixel count” for total number of pixels. A higher resolution / pixel count stands for a sharper / better video quality.

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**Oculus Rift CV1**

- **Display Type:** OLED
- **Resolution:** 2160x1200 px
- **Per Eye Resolution:** 1080x1200 px
- **Pixel Count:** 2,592,000 px
- **Refresh Rate:** 90 Hz
- **Field of View:** 110°
- **Tracking Area:** 2.2 x 2.2 m
- **Controllers:** Touch, Xbox
- **Audio:** Built-In
- **Microphone:** Built-In
- **Req. connectors:** 1x HDMI, 1x USB Headset, 3x USB for Camera
- **Install requirements:** Connection to Facebook

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**HTC Vive**

- **Display Type:** OLED
- **Resolution:** 2160x1200 px
- **Per Eye Resolution:** 1080x1200 px
- **Pixel Count:** 2,592,000 px
- **Refresh Rate:** 90 Hz
- **Field of View:** 110°
- **Tracking Area:** 5 x 5 m
- **Controllers:** Vive, Generic Gamepad
- **Audio:** Headphone connector
- **Microphone:** Built-In
- **Req. connectors:** 1x HDMI or DisplayPort, 1x USB ConnectBox, 1x Power ConnectBox, 2x Power Camera
- **Install requirements:** Connection to Steam

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**HTC Vive Pro**

- **Display Type:** AMOLED
- **Resolution:** 2880x1600 px
- **Per Eye Resolution:** 1440x1600 px
- **Pixel Count:** 4,608,000 px
- **Refresh Rate:** 90 Hz
- **Field of View:** 110°
- **Tracking Area:** 10 x 10 m
- **Controllers:** Vive, Generic Gamepad
- **Audio:** Built-In
- **Microphone:** Built-In (Dual)
- **Req. connectors:** 1x DisplayPort, 1x USB ConnectBox, 1x Power ConnectBox, 2-4x Power Camera
- **Install requirements:** Connection to Steam

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With over 15 years of experience, more3D provides superior stereoscopic and virtual reality software and solutions to clients in industry, trade and media. We create solutions for 3D VR CAVE, 3D projection, 3D monitors, 3D TVs, 3D HMDs. Inspire your customers and colleagues with 3D VR visualisation and its sustainable benefits.
VR System Requirements

The moreViz software has the same system requirements like the original application that’s to be bridged into VR. moreViz works by copying the graphic commands of the actual application (e.g. Plant Simulation, Catia, NX,…). To output 3D to a projector, it is recommended to have an Nvidia Quadro card for best performance.

As both Oculus and HTC are not directly listing professional graphics boards, we’re providing this list of VR-ready professional graphics board by Nvidia:
GV100
GP100
P6000
P5000
P4000
M6000 24GB
M5000

We have seen M4000 & K6000 GPUs to work as well, yet they are not officially supported by Nvidia.

AMD lists the following GPUs to be VR-Ready:
Radeon Pro WX 9700
Radeon Pro SSG
Radeon Pro WX 7100
Radeon Pro Duo

Our basic recommendation is as follows:
For HMD (Vive / Rift):
Quad Core CPU with 3.5GHz or better
16GB Ram in Quad Channel or better
SATA or M.2 SSD or better
Geforce GTX 1080Ti or Quadro P5000

For Powerwall:
Quad Core CPU with 3.5GHz or better
16GB Ram in Quad Channel or better
SATA or M.2 SSD or better
Quadro P4000 or better (no Geforce)

For CAVE:
Hexa / Octa Core CPU with 3.4GHz
32GB Ram or better
SATA or M.2 SSD or better
Quadro P5000 or better (no Geforce)

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We create solutions for 3D VR CAVE, 3D projection, 3D monitors, 3D TVs, 3D HMDs.
Inspire your customers and colleagues with 3D VR visualisation and its sustainable benefits.

Here’s the official requirements by HTC for HTC Vive and HTC Vive Pro:

<table>
<thead>
<tr>
<th>Component</th>
<th>Recommended system requirements</th>
<th>Minimum system requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Core™ i5-4590/AMD FX™ 8350 equivalent or better</td>
<td>Intel Core i5-4590/AMD FX 8350 equivalent or better</td>
</tr>
<tr>
<td>GPU</td>
<td>NVIDIA® GeForce® GTX 1060, AMD Radeon™ RX 480 equivalent or better</td>
<td>NVIDIA GeForce GTX 970, AMD Radeon R9 290 equivalent or better</td>
</tr>
<tr>
<td>Memory</td>
<td>4 GB RAM or more</td>
<td>4 GB RAM or more</td>
</tr>
<tr>
<td>Video output</td>
<td>DisplayPort 1.2 or newer</td>
<td>DisplayPort 1.2 or newer</td>
</tr>
<tr>
<td>USB port</td>
<td>1x USB 3.0 or newer</td>
<td>1x USB 3.0 or newer</td>
</tr>
<tr>
<td>Operating system</td>
<td>Windows® 8.1 or later, Windows 10</td>
<td>Windows 8.1 or later, Windows 10</td>
</tr>
</tbody>
</table>

HTC provides a compatibility checker app here.

Here’s the official requirements by Oculus for Oculus Rift:

<table>
<thead>
<tr>
<th>Component</th>
<th>Recommended Specs</th>
<th>Minimum Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphics Card</td>
<td>NVIDIA GTX 1060 / AMD Radeon RX 480 or greater</td>
<td>NVIDIA GTX 1050 Ti / AMD Radeon RX 470 or greater</td>
</tr>
<tr>
<td>Alternative Graphics Card</td>
<td>NVIDIA GTX 970 / AMD Radeon R9 290 or greater</td>
<td>NVIDIA GTX 960 4GB / AMD Radeon R9 290 or greater</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel i5-4590 / AMD Ryzen 5 1500X or greater</td>
<td>Intel i3-6100 / AMD Ryzen 3 1200, FX4350 or greater</td>
</tr>
<tr>
<td>Memory</td>
<td>8GB+ RAM</td>
<td>8GB+ RAM</td>
</tr>
<tr>
<td>Video Output</td>
<td>Compatible HDMI 1.3 video output</td>
<td>Compatible HDMI 1.3 video output</td>
</tr>
<tr>
<td>USB Ports</td>
<td>3x USB 3.0 ports, plus 1x USB 2.0 port</td>
<td>1x USB 3.0 port, plus 2x USB 2.0 ports</td>
</tr>
<tr>
<td>OS</td>
<td>Windows 10 or newer</td>
<td>Windows 10 or newer</td>
</tr>
</tbody>
</table>

Oculus provides a compatibility checker app here.

Please do not hesitate to contact us for technical assistance: support@more3d.com
**NVidia Quadro Configuration Guide**

To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day.

This quick guide will explain which configuration for Quadro Cards is necessary for NVidia Quadro Cards. Failure to follow the Guide will result in:

* No Tracking
* Distorted Image
* No Direct-Data Link in between your app and the VR environment

1. Right click on your desktop, select “Nvidia Control Panel”

2. In the left hand list, select “Manage 3D Settings”

3. In the Select the “Global Preset” and set it to “Workstation App - Dynamic Streaming”

4. Click “Apply” and restart your computer.

5. For Quad Buffer output modes in CAVE or Powerwall, make sure to set “Stereo Enable” to “Enable” and “Stereo Output Mode” matching to your 3D Output Device.

Please do not hesitate to contact us for technical assistance: support@more3d.com
For sales related questions, please contact sales@more3d.com
For general inquiries, we’ll be at your service at info@more3d.com
To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day. After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

This guide describes how to setup the moreViz Server Control matching to your environment.

1. Start the moreViz Server Control (start menu)

2. Notice the moreViz-Tray icon (next to system time) and right-click it, select “Properties”.

3. Select the connection Type. TCP/IP sends the graphic data to the specified IP addresses and ports. Useful for CAVE, cluster and remote sessions. UDP broadcasts the graphic data into the local network. Recommended for Cluster. Use separate network from company network. Shared Memory: Transmit the data on local PC using Shared Memory. Fastest method, best for HMD.

If you ever encounter the loading process to timeout (transferring 3D data from your App to HMD), try TCP/IP as connection type. It has the biggest timeout tolerance.

Click the link below the IP address mask to watch a video tutorial about moreViz HMD on Youtube.

4. The “Hotkeys” tab allows to define custom hotkeys. Please note that defined keys will be systemwide unavailable as long as server control is active.

5. The “Startup” Tab allows to have the moreViz server control automatically start with Windows. This is highly recommended, it only uses 10MB of Ram and does not establish any network connections outside of user-specified range. Further it is possible to disable the “more3D” software splash screen.

6. The “Info” tab gives general information about the software, the license and hardware.

7. To complete the moreViz software setup, make sure you’ve followed these guides as well: moreViz Server Control / Network Guide moreViz Client: Vive / Oculus / Cave Guide Quadro Configuration Guide Daily Use Guide

Do not hesitate to contact us for technical assistance at support@more3d.com.
moreViz HTC Vive and VivePro Configuration

To download the latest Version of moreViz, please send us a request to info@more3d.com.

1. Launch the moreViz Client. You can do so with the Desktop Icon or the start menu program group more3D -> moreViz.

2. Right Click into the grey client window. The client will show its context menu.

3. (Optionally) Select “Restore” to send the client into windowed mode.

4. Select “General Settings”. Set the “Output Type” to “HTC Vive”.

5. Depending on your graphic board performance and model complexity, a higher value for “Pixel Density” is recommendable. With a Pixel Density of 1.0 moreViz will render exactly for the resolution of Vive / VivePro. With a value of e.g. 1.25 moreViz will render at 125% of the actual HMD resolution, causing a higher workload for the GPU and simultaneously upgrading the image quality.

6. “Screen Position” is not required for moreViz HMD, do not make any changes.

7. “Image Shift” is not required for moreViz HMD, do not make any changes.

8. “Multi Instance” lets you select the fullscreen output device. This can be useful when adding a secondary display to mirror the HMD’s view for a group of participants. Further, it contains the configuration for the graphic ports (TCP connection Type only).

9. After finishing the configuration: Please restart the client to make sure new settings are in effect.

10. moreViz only requires one VR controller. You can identify the active controller very easily: the one showing the yellow arrow on the touchpad is enabled for moreViz.

Select general movement direction on the touchpad. Pull the trigger to move into selected movement direction, based on controller direction. Push and hold the side button to couple to geometry to the controllers position and rotation. The VR menu options are selected with the touchpad, execution of selected function is done with the trigger.
moreViz HTC Vive and VivePro Configuration

11. The In-VR menu lets you set your preferences per app. To select options use the controller’s touchpad, to activate an option, pull the trigger.

   Reset: Reset Position / Scale / Speed to default

   Scale: Makes the geometry smaller or bigger

   Speed: Makes movement speed slower / faster

   Laser: Toggles the red line on the controller

   Dist: Enables to measure two or three points

   Clip: Allows to clip away geometry on a plane

   Flags: Add / Remove / GoTo Point of interest

12. Bridge your app’s GUI into VR

Download the free open-source software “Open-VRDesktopDisplayPortal” (OVRD) from here. Download and extract to any location of preference.

Now startup the components in this sequence:
1. moreViz Server Control
2. moreViz Client
3. Your App
4. OVRD

Your app must be on top of the screen, it must not be covered by other windows.
It has proven very useful to create an undocked window containing the main functions from your app. When bridging the entire GUI of your app, it is recommended to have a rather small, windowed layout.

To operate the inVR GUI, use the secondary controller (the controller not used to operate moreViz, see point 10 on the first page).
To left click: pull the trigger.
To right click: click the touchpad.

1. Select the app window to bridge into VR
2. On Windows7, set to GDI Indirect
3. Position the in-VR GUI along X, Y and Z axis.
4. Rotate the in-VR GUI along X, Y and Z axis.
5. Select “World”, this places the in-Vr GUI in your room-scale environment.
Alternatively it is possible to have the GUI float above one VR controller (“Controller”)
Another option is to have the GUI glued to a position in the HMD (“Screen”).

6. Set transparency between 0 and 1.
7. Scale the size of the in-VR GUI.
8. Save and load Presets.

Please do not hesitate to contact us for technical assistance and support at:
support@more3d.com

Thank you for reading this guide. We hope you enjoy the new way to see your digital work.

We have many tutorial videos available on our youtube channel: more3DStereo.
Seeing the complete configuration can be easier than reading your way through the texts.
moreViz Oculus Rift Configuration

To download the latest Version of moreViz, please send us a request to info@more3d.com.

1. Launch the moreViz Client. You can do so with the Desktop Icon or the start menu program group more3D -> moreViz.

2. Right Click into the grey client window. The client will show its context menu.

3. (Optionally) Select “Restore” to send the client into windowed mode.

4. Select “General Settings”. Set the “Output Type” to “Oculus Rift”.

5. Depending on your graphic board performance and model complexity, a higher value for “Pixel Density” is recommendable. With a Pixel Density of 1.0 moreViz will render exactly for the resolution of the Rift. With a value of 1.25 moreViz will render at 125% of the actual HMD resolution, causing a higher workload for the GPU and simultaneously upgrading the image quality.

6. “Screen Position” & “Image Shift” are not required for moreViz HMD.

7. “Multi Instance” lets you select the fullscreen output device. This can be useful when adding a secondary display to mirror the HMD’s view for a group of participants. Further, it contains the configuration for the graphic ports (TCP connection type only).

8. After finishing the configuration: Please restart the client to make sure new settings are in effect.

9. Connect your Gamepad and you are good to go.
To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day.

After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:

1. Start the moreViz Server Control (start menu)

2. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.

3. Click “Locate known Apps”. moreViz will search the standard program files folders for known NX installation locations and add them to the list.

4. If your NX is installed to a non-standard directory, please click “Add Application”, locate your “ugraf.exe” file. It is usually located in “X:\Program Files\Siemens\NX 10.0\UGII”, “X:\Program Files\Siemens\NX 11.0\NXBIN”, “X:\Program Files\Siemens\NX 12.0\NXBIN”.

5. Place the checkmark in the “enabled” column for NX / ugraf.exe.

6. Click “Save & Close”.

7. NX is now properly configured for use with moreViz.

8. To complete an initial moreViz software setup, make sure you’ve followed these guides as well:
   - moreViz Server Control / Network Guide
   - moreViz Client: Vive / Oculus / Cave Guide
   - Quadro Configuration Guide
   - Daily Use Guide

9. Do not hesitate to contact us for technical assistance at support@more3d.com.

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moreViz Setup Guide: Plant Simulation

To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day. After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:

1. Launch Plant Simulation

2. Click on “File” and “Preferences”

3. Switch to the “3D” Tab and set the “OpenGL Version” to 1.5

4. Exit Plant Simulation.

5. Start the moreViz Server Control (start menu)

6. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.

7. Click “Locate known Apps”. moreViz will search the standard program files folders for known Plant Simulation installation locations and add them to the list.

8. If your Plant Simulation is installed to a non standard directory, please click “Add Application”, locate your “Plant Simulation.exe” file.

9. Place the checkmark in the “enabled” column for your app.

10. Click “Save & Close”

11. Plant Simulation is now properly configured for use with moreViz.

12. To complete the moreViz software setup, make sure you’ve followed these guides as well: moreViz Server Control / Network Guide moreViz Client: Vive / Oculus / Cave Guide Quadro Configuration Guide Daily Use Guide

13. Do not hesitate to contact us for technical assistance at support@more3d.com.
moreViz Setup Guide: Process Simulate

To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day. After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:
1. Launch Process Simulate
2. Click on “File” and “Options”
3. Switch to the “Performance” Tab and set the “OpenGL Acceleration Level” to “V1.5”, drag the “Level of Details” Slider all to the left for best Quality.
5. Start the moreViz Server Control (start menu)
6. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.
7. Click “Locate known Apps”. moreViz will search the standard program files folders for known Process Simulate installation locations and add them to the list.
8a. If your Process Simulate is installed to a non-standard directory, please click “Add Application”, locate your “Tune.exe” file. It is usually located in “X:\Program Files\Tecnomatix\TecnomatixCurrent\eMPower\NewWorld” or “X:\Program Files\Tecnomatix_13.1\eMPower\NewWorld”.
8b. After adding your non-standard-directory version of Process Simulate, click the “Browse” button in the Tune.exe’s row. Navigate to the “New World” subdirectory and click OK. It is usually located either here: “X:\Program Files\Tecnomatix\TecnomatixCurrent\eMPower\NewWorld” or here: “X:\Program Files\Tecnomatix_13.1\eMPower\New World”.
9. Place the checkmark in the “enabled” column for Process Simulate / Tune.exe.
10. Click “Save & Close”, Process Simulate is now properly configured for use with moreViz.
11. When working in VR: make sure Process Simulate is running in perspective view mode.
13. Do not hesitate to contact us for technical assistance at support@more3d.com.
To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day.

After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:

1. Launch JT2Go and load a model.
2. Right-click into the viewport and select “Performance” -> “Edit”
3. Switch to the “Troubleshoot” Tab and set the “Effective OpenGL Version” to “1.5” and click “OK”.
4. Exit JT2Go.
5. Start the moreViz Server Control (start menu)
6. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.
7. Click “Locate known Apps”: moreViz will search the standard program files folders for known JT2Go installation locations and add them to the list.
8a. If your JT2Go is installed to a non standard directory, please click “Add Application”, locate your “VisView_NG.exe” file. It is usually located in “X:\Program Files\Siemens\JT2Go\Products\JT2Go”.
8b. After adding your non-standard-directory version of JT2Go, please click the “Browse” button in the VisView_NG.exe’s row. Navigate to the “Program” subdirectory and click OK. It is usually located either here: “X:\ Program Files\ Siemens\JT2Go\Program”.
9. Place the checkmark in the “enabled” column for JT2Go / VisView_NG.exe.
10. Click “Save & Close”
11. JT2Go is now properly configured for use with moreViz.
12. When operating JT2Go in VR, we recommend to set the “Performance” of TcVis to “Part Investigation”.
13. To complete the moreViz software setup, make sure you’ve followed these guides as well: moreViz Server Control / Network Guide moreViz Client: Vive / Oculus / Cave Guide Quadro Configuration Guide Daily Use Guide
14. Do not hesitate to contact us for technical assistance at support@more3d.com.
moreViz Setup Guide: Teamcenter Visualization / TcVis / Connect

To download the latest Version of moreViz, please send us a request to info@more3d.com. We will usually provide the download link within one business day. This guide targets all versions of TcVis (Base/Pro/Mockup) and also Applies to Teamcenter Connect and its derivates.

Please proceed as follows:
1. Launch TcVis and load a model.
2. Right-click into the viewport and select “Performance” -> “Edit”.
3. Switch to the “Troubleshoot” Tab and set the “Effective OpenGL Version” to “1.5” and click “OK”.
4. Exit TcVis.
5. Start the moreViz Server Control (start menu)
6. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.
7. Click “Locate known Apps”. moreViz will search the standard program files folders for known TcVis installation locations and add them to the list.
8a. If your TcVis is installed to a non standard directory, please click “Add Application”, locate your “VisView_NG.exe” file. It is usually located in “X:\Program Files\Siemens\Teamcenter11.3\Visualization\Products\Mockup”.
8b. After adding your non-standard-directory version of TcVis, please click the “Browse” button in the VisView_NG.exe’s row. Navigate to the “Program” subdirectory and click OK. It is usually located either here: “X:\Program Files\Siemens\Teamcenter11.3\Visualization\Program”.
9. Place the checkmark in the “enabled” column for TcVis / VisView_NG.exe.
10. Click “Save & Close”.
11. TcVis is now properly configured for use with moreViz.
12. When operating TcVis in VR, we recommend to set the “Performance” of TcVis to “Part Investigation”.
14. Do not hesitate to contact us for technical assistance at support@more3d.com.
To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day. After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:

1. Launch SAP Visual Enterprise Viewer/Author and load a model.

2. Right click into the viewport, select “Preferences -> Display Renderer -> OpenGL”

3. Exit SAP Visual Enterprise Viewer / Author.

4. Start the moreViz Server Control.

5. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.

6. Click “Locate known Apps”. moreViz will search the standard program files folders for known SAP Visual Enterprise installation locations and add them to the list.

7. If your SAP Visual Enterprise is installed to a non standard directory, please click “Add Application”, locate your “VEViewer.exe” or “VEAuthor.exe” file.

8. Place the checkmark in the “enabled” column for your app.

9. Click “Save & Close”

10. SAP Visual Enterprise is now properly configured for use with moreViz.

11. To complete the moreViz software setup, make sure you’ve followed these guides as well:
   - moreViz Server Control / Network Guide
   - moreViz Client: Vive / Oculus / Cave Guide
   - Quadro Configuration Guide
   - Daily Use Guide

Do not hesitate to contact us for technical assistance at support@more3d.com.
**moreViz Setup Guide: Catia / Delmia**

To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day. After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:

1. **Start the moreViz Server Control.**

2. **Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.**

3. **Click “Locate known Apps”. moreViz will search the standard program files folders for known Catia / Delmia installation locations and add them to the list.**

4. **If your Catia/Delmia is installed to a non standard directory, please click “Add Application”, locate your “CNext.exe”. The standard path is X:\Program Files\Dassault Systemes\Bxx\win_b64\code\bin (xx = version number).**

5. **Place the checkmark in the “enabled” column for your app.**

6. **Click “Save & Close”**

7. **Catia / Delmia is now properly configured for use with moreViz.**

8. **When working in VR, please make sure to set the Visualization mode in Catia to “Perspective”, you can find it in View -> Render Style:**

9. **To complete the moreViz software setup, make sure you’ve followed these guides as well:**
   
   moreViz Server Control / Network Guide
   
   moreViz Client: Vive / Oculus / Cave Guide
   
   Quadro Configuration Guide
   
   Daily Use Guide
   
   Do not hesitate to contact us for technical assistance at support@more3d.com.

We have many tutorial videos available on our youtube channel: more3DStereo.

Seeing the complete configuration can be easier than reading your way through the texts.
To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day.

After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:

1. Launch Catia Composer (Player)
2. Click “Help” and “Application Preferences”
3. Switch to the “Hardware Support” Tab and set the “OpenGL Acceleration Level” to “Standard”. Uncheck the “Enable P-Buffers” checkbox.
4. Exit Catia Composer (Player).
5. Start the moreViz Server Control (start menu)
6. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.
7. Click “Locate known Apps”: moreViz will search the standard program files folders for known Catia Composer (Player) installation locations and add them to the list.
8. If your Catia Composer (Player) is installed to a non standard directory, please click “Add Application”, locate your “ComposerPlayer.exe” / “CatiaComposer.exe” file. It is usually located in “X:\Program Files\Dassault Systemes\CATIAComposer\x.x\Bin”.
9. Place the checkmark in the “enabled” column for Catia Composer (Player) / ComposerPlayer.exe.
10. Click “Save & Close”, Catia Composer (Player) is now properly configured for use with moreViz.
11. When working in VR: make sure Catia Composer (Player) is running in perspective view mode.
12. To complete the moreViz software setup, make sure you’ve followed these guides as well:
   - moreViz Server Control / Network Guide
   - moreViz Client: Vive / Oculus / Cave Guide
   - Quadro Configuration Guide
   - Daily Use Guide
13. Do not hesitate to contact us for technical assistance at support@more3d.com.
To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day. After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:

1. Start the moreViz Server Control (start menu)

2. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.

3. Click “Locate known Apps”. moreViz will search the standard program files folders for known IPS installation locations and add them to the list.

4. If your IPS is installed to a non standard directory, please click “Add Application”, locate the “IPS.exe” file. It’s usually located in X:\IPS x.x (xx =version, e.g. IPS 3.5).

5. Place the checkmark in the “enabled” column for IPS.

6. Click “Save & Close”.

7. moreViz is now properly configured for use with IPS.

To complete an initial moreViz software setup, make sure you’ve followed these guides as well:
moreViz Server Control / Network Guide
moreViz Client: Vive / Oculus / Cave Guide
Quadro Configuration Guide
Daily Use Guide

Do not hesitate to contact us for technical assistance at support@more3d.com.
moreViz Setup Guide: Creo View Express

To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day. After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:
1. Start the moreViz Server Control (start menu)

2. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.

3. Click “Locate known Apps”. moreViz will search the standard program files folders for known Creo View Express installation locations and add them to the list.

4. If your Creo View Express is installed to a non standard directory, please click “Add Application”, locate the “productview.exe” file. It’s usually located in X:\PTC\Creo 5.0\View Express\i486_nt.obj.

5. Place the checkmark in the “enabled” column for Creo View Express / productview.exe.

6. Click “Save & Close”

7. moreViz is now properly configured for use with Creo View Express.

8a. Make sure that Creo View Express is running in perspective view mode. Load a model, then click on “File” and select “Options”

8b. Go to the “Active View” bullet point on top, then “Model” in the left hand list, then set the “View Mode” to “Perspective”.

8c. Set the active view to “Perspective”.

To complete an initial moreViz software setup, make sure you’ve followed these guides as well:
- moreViz Server Control / Network Guide
- moreViz Client: Vive / Oculus / Cave Guide
- Quadro Configuration Guide
- Daily Use Guide

9. Do not hesitate to contact us for technical assistance at support@more3d.com.

With over 15 years of experience, more3D provides superior stereoscopic and virtual reality software and solutions to clients in industry, trade and media. We create solutions for 3D VR CAVE, 3D projection, 3D monitors, 3D TVs, 3D HMDs. Inspire your customers and colleagues with 3D VR visualisation and its sustainable benefits.
moreViz Setup Guide: SimPack (Viewer)

To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day.

After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:

1. Start the moreViz Server Control (start menu)

2. Notice the moreViz-Tray icon (next to system time) and right-click it, select "moreViz Application Enabler".

3. Click “Locate known Apps”. moreViz will search the standard program files folders for known Simpack (Viewer) installation locations and add them to the list.

4. If your Simpack (Viewer) is installed to a non-standard directory, please click “Add Application”, locate the “simpack-viewer.exe” file or the “simpack-gui.exe”. It’s usually located in X:\Simpack-2018\run\bin\win64.

5. Place the checkmark in the “enabled” column for SimPack (Viewer).

6. Click “Save & Close”. It does not matter whether you enable SimPack or the SimPack Viewer, for technical reasons both apps get enabled in the process of enabling either of them.

7. moreViz is now properly configured for use with SimPack and SimPack Viewer.

To complete an initial moreViz software setup, make sure you’ve followed these guides as well:

- moreViz Server Control / Network Guide
- moreViz Client: Vive / Oculus / Cave Guide
- Quadro Configuration Guide
- Daily Use Guide

Do not hesitate to contact us for technical assistance at support@more3d.com.
To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day. After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

Please proceed as follows:

1. Start the moreViz Server Control (start menu)

2. Notice the moreViz-Tray icon (next to system time) and right-click it, select “moreViz Application Enabler”.

3. Click “Locate known Apps”. moreViz will search the standard program files folders for known Sketchup installation locations and add them to the list.

4. If your Sketchup is installed to a non standard directory, please click “Add Application”, locate the “SketchUp.exe” file. It’s usually located in X:\SketchUp\SketchUp 20xx [xx =year/version].

5. Place the checkmark in the “enabled” column for Sketchup.

6. Click “Save & Close”.

7. moreViz is now properly configured for use with Sketchup.

To complete an initial moreViz software setup, make sure you’ve followed these guides as well:

- moreViz Server Control / Network Guide
- moreViz Client: Vive / Oculus / Cave Guide
- Quadro Configuration Guide
- Daily Use Guide

Do not hesitate to contact us for technical assistance at support@more3d.com.
To download the latest Version of moreViz, please send us a request to info@more3d.com. We will provide the download link within 1 business day. After downloading, simply run the file and follow the instructions on-screen. The installer will automatically create a 14-day license on installation.

This guide shows how to use moreViz:

1. Make sure the moreViz Server control is active.

   ![moreViz Server Control]

   Hint: Autostart of the Server Control is available in the moreViz Server Control Properties.

2. When the tray icon of the moreViz Server Control moreViz is available in the tray bar, the software is ready for operation.

3. Launch your moreViz Client. Make sure its configured for your output device.

4. Run your app and load a model. Make sure its set to perspective projection mode. Look up the detail guide for details on your app.

5. Enjoy VR

FAQ

1. I’ve launched the app, yet the moreViz client stays grey.
   * Check if the moreViz Server Control is running
   * Check if your connection type is correct - try TCP/IP 127.0.0.1:8700
   * Check if your app is properly enabled
   * Check if your app is set for OpenGL mode

2. The tracking of my HMD does not work
   * Check if your app runs in perspective mode
   * Check if the tracking is disabled (Right click into the client, select “General Settings”)
   * Verify you followed the Quadro Config Guide properly

3. The graphics inside VR look broken
   * Check if you properly configured the OpenGL version for your app.

4. Movement in VR is very slow
   * Check if the scaling of the app is correct. When the scaling is too big, movement will seem very slow and stereo effect (“3D”) is very little. Try scaling smaller.

5. Graphics inside VR are stretched vertically
   * Set your app to perspective mode

6. General Performance in VR is low / laggy
   * VR is expensive on the hardware. Try reducing the amount of data you’re pushing. E.g. remove standard bolts/screws/nuts from your model file. Further, try using a simple shaded mode. Disable SteamVR Home Beta (Vive).

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moreViz Client: Vive / Oculus / Cave Guide
Quadro Configuration Guide
App Guides

Do not hesitate to contact us for technical assistance at support@more3d.com.

We have many tutorial videos available on our youtube channel: more3DStereo.

Seeing the complete configuration can be easier than reading your way through the texts.