

velocity

Velocity and Velocity Device Manager Soft Gateway Microsoft® Hyper-V[™] Installation



Version Information

Version	Release Date	Notes
1	April 2021	Initial release
2	Aug 2021	Added steps for Hyper-V using an external switch
3	Nov 2022	Updated specifications and installation steps for new 2.5.2 build
4	Oct 2023	Updated instructions for new 2.6.1 build



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Operating Notes

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For best restults, the gateway should be located on the same network as the controlled devices.

As of this writing, there are no firmware updates for this product. When new firmware is released, update instructions will be included with the firmware and will be appended to this manual.



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Introduction

Velocity and Velocity Device Manager use a Hyper-V set up to provide a Windows based installation option. This Hyper-V based system can run AT-VGW-SW or AT-VDM-SW instances depending on the system specifications. Use the included system requirements to determine if the device can run either software. The setup and installation steps for both AT-VGW-SW and AT-VDM-SW will be the same, even if the system requirements differ.

Requirements

AT-VGW-SW 20 Room Minimum System Requirements

- Operating System Windows 11 Enterprise, Windows 11 Pro, Windows 11 Education, Windows 10 Enterprise, Windows 10 Pro, Windows 10 Education, Windows Server 2022, Windows Server 2019, Microsoft Hyper-V Server 2019, Windows Server 2016, and Microsoft Hyper-V Server 2016
- RAM Minimum 16 GB
- CPU 4 CPUs minimum
- Gigabit Ethernet Card
- 128 GB VM HDD/SSD space minimum

AT-VDM-SW

- Operating System Windows 11 Enterprise, Windows 11 Pro, Windows 11 Education, Windows 10 Enterprise, Windows 10 Pro, Windows 10 Education, Windows Server 2022, Windows Server 2019, Microsoft Hyper-V Server 2019, Windows Server 2016, and Microsoft Hyper-V Server 2016
- RAM Minimum 4 GB memory
- CPU 64-bit processor with second-level address translation (SLAT) and support for VM Monitor Mode Extension (VT-c on Intel CPUs)
- Gigabit Ethernet Card
- 32 GB VM HDD/SSD space minimum
- Velocity Hyper-V Virtual Machine downloaded from the VDM download page



Verification and Setup

Before installation, Hyper-V must be set up on the Windows appliance. The appliance must be running a compatible Windows version.

Verification

To verify the type of Windows the appliance is running, follow these steps:



- 1. Select the Windows icon in the bottom left corner of the screen. A menu will open.
- 2. Select the Settings icon. A new window will appear.
- 3. Select System from the options. A new screen will open.
- 4. Scroll to the bottom of the left hand menu and select **About**. The new screen will open. The Windows edition will display under Windows Specifications.

Hyper-V Verification

Now that the Windows OS has been verified, Hyper-V must be enabled and installed (if not already there). To find out if Hyper-V is installed or not, there are two areas to check.

First area:





← Settings		-	
+ Add a feature			
See optional feature history			
Installed features			
Find an installed optional feature	Q		
Sort by: Name $\!$			
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43 Math Recognizer	33.3 MB 12/7/2019		

Second area:

- 1. Select the **Windows icon** in the bottom left corner of the screen. A menu will open.
- 2. Select the **Settings icon**. A new window will appear.
- 3. Select **Apps** from the options. A new screen will open.
- 4. Select **Optional Features**. A new screen will open.
- 5. Scroll through the list to see if Hyper-V is installed. If Hyper-V is not located, go to the second area steps, if Hyper-V is there, go to the Setup section.

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- 1. Select the Search icon in the bottom left corner of the screen. A menu will open.
- 2. Type **admin** into the search field. Options should appear at the top of the menu.
- 3. Select Windows Administrative Tools from the options. A new folder will open.
- 4. Scroll through the list to see if Hyper-V is installed.



Setup

Hyper-V must be enabled before Velocity / Velocity Device Manager can be installed. There are two ways to enable Hyper-V: PowerShell or Settings.

NOTE: The instructions may be updated by Windows, to see the most recent instructions, check out the Windows i Hyper-V webpage.

PowerShell:

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- Select the Search icon in the bottom left corner of the screen. A menu will open. 1.
- 2. Type **Power** into the search field. Options should appear at the top of the menu.
- Right click PowerShell from the options and select Run as Administrator. A new window will open. 3.
- Type in the command: 4.

Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All

5. Press enter to run the command. Once the process is done, the appliance will restart.





Settings:

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- 2. Select the **Settings icon**. A new window will appear.
- 3. Select **Apps** from the options. A new screen will open.
- 4. Scroll to the bottom of the right side of the window to Related settings and select **Programs and Features**. A new window will open.

☐ Startup

Programs and Features				- 🗆 X				
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					Internet Information Servic Image:	ces Hostable W	OK Cancel	Cancer

- 5. Select **Turn Windows features on or off** from the left side menu. A new pop up will appear.
- 6. Find **Hyper-V** in the features list and select the check box next to it. The sub features will be selected when the main box is checked.
- 7. Select the **OK** button, this will start the enabling process. A new window will open while the feature is being enabled. Once completed, a new screen will open.
- 8. Select **Restart Now** once the complete message shows up. The appliance will restart. Hyper-V setup up is done.

		×
~	🧱 Windows Features	
	Windows completed the requested changes.	
	Windows needs to reboot your PC to finish installing the requested changes.	
	Restart now Don't resta	rt



Velocity Installation

Now that Hyper-V has been set up, Velocity and Velocity Device Manager can be installed on the Windows Appliance. These steps can be followed for setting up a normal Hyper-V connection.

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- 1. Select the Search icon in the bottom left corner of the screen. A menu will open.
- 2. Type Hyper into the search field. Options should appear at the top of the menu.
- 3. Select Hyper-V Manager from the options. A new window will open.

Hyper-V Manager		- 🗆 ×	Hyper-V Manager				×
File Action View Help			File Action View Help				
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- 4. Select the appliance name. New options will appear on the right side of the window.
- 5. Select Import Virtual Machine.... A new window will appear.
- 6. Select the **Next >** button. A new screen will open.

Import Virtual Machine	×	Minimizer Import Virtual Machine			×	
		Select Folder				×
Locate Folde	r	\leftarrow \rightarrow \checkmark \uparrow \blacklozenge \uparrow This PC \rightarrow Dor	wnloads >	ٽ ~	Search Downloads	٩
		Organize 🔻 New folder				• 🕜
Before You Begin Locate Folder	Specify the folder containing the virtual machine to import. Folder: Browse Browse	AT-VTP-1000VL_C Name	2)	Date modified	Туре	Size
Choose Import Type		VTPG	<i>⊑)</i> itty 230	4/26/2021 11:59 AM	Compressed (zippe	6,541,
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- 7. Select the Browse... button. A new window will open.
- 8. Double click to open the unzipped Velocity X.X.X folder. This will open a new screen.

Select Folder			×	Select Folder			×
\leftarrow \rightarrow \checkmark \uparrow \bigcirc \uparrow This PC \rightarrow Downloads \rightarrow Velocity 2.3.0 \rightarrow	✓ Õ Seard	ch Velocity 2.3.0	P	← → × ↑ 📙 → This PC → Downloads → Velocity 2.3.0 → 🗸 🗸	Ū	Search Velocity 2.3.0	م
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AT-VTP-1000VL_C Name	Date modified	Туре	Size	AT-VTP-1000VL_C Name Date modifie	ed .	Туре	Size
VIPG	4/26/2021 12:04 PM	File folder		Hyper-V Velocity 2.3.0 4/26/2021 12	:04 PM	File folder	
🚡 Microsoft Manage				Microsoft Manage			
🚾 Box Sync				🧧 Box Sync			
🧭 Creative Cloud File				Creative Cloud File			
This PC				This PC			
3D Objects				3D Objects			
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Folder: Velocity 2.3.0				Folder: Velocity 2.3.0	_		
	Sele	ct Folder	Cancel		\bigcirc	Select Folder	Cancel

- 9. Select the Velocity X.X.X folder to highlight it.
- 10. Select the Select Folder button. The window will close and the folder name will appear in the Import Virtual Machine window.

Multiple Import Virtual Machine		×	Import Virtual Machine		×
Select Virtual	Machine		Choose Impo	ort Type	
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	Select the virtual machine to import: Name D Velocity 2:3.0 3	Date Created /8/2021 3:43:40 PM	Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	Choose the type of import to perform: Register the virtual machine in-place (use the existing unique ID) Restore the virtual machine (use the existing unique ID) popy the virtual machine (create a new unique ID)	
	< Previous Next >	Finish Cancel		< Previous Next > Finish	Cancel

- 11. Press the **Next >** button. A new screen will open.
- 12. Select the radial button next to Copy the virtual machine (create a new unique ID).

Import Virtual Machine X	Import Virtual Machine	×
Choose Import Type	Choose Folders for Virtual Machine Files	
Before You Begin Choose the type of import to perform: Locate Folder Register the virtual machine in-place (use the existing unique ID) Restore the virtual machine (use the existing unique ID) Restore the virtual machine (create a new unique ID) Summary Import Type	Before You Begin Locate Folder Select Virbual Machine Choose Import Type Choose Storage Folders Summary	rwise, the wizard ched in the virtual Browse Browse
< Previous Next > Finish Cancel	< Previous Next > F	nish Cancel

- 13. Press the Next > button. A new screen will open.
- 14. The new screen is fine as defaulted, so press the **Next >** button.



Velocity Installation

Import Virtual Machine		×	Import Virtual Machine		×
Choose Folde	ers to Store Virtual Hard Disks		Completing 1	Import Wizard	
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Choose Destination Choose Starage Folders Summary	Where do you want to store the imported virtual hard disks for this virtual machine? Location: Calliers Public Documents Hypera Alvirtual Hard Disks) Bro	wse	Before You Begin Locate Folder Select Virtual Machine Choose Import Type Choose Destination Choose Starage Folders Summary	You are about to perform the following Description: Untual Machine: Import Type: Untual machine configuration folder: Oneckpoint folder: Smart Paging file store: Virtual hard disk destination folder:	g operation. Velocity 2.3.0 C:\Users\TamanaClark\Downloads\Velocity 2.3.0\Velocity 2.3.0\ Copy (generate new ID) C:\ProgramData\Vercosdf\Windows\Hyper-V C:\ProgramData\Vercosdf\Windows\Hyper-V C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\
	< Previous Next > Finish C	ancel		[< Previous Next > Finish Cancel

- 15. The location is set by default, it can be changed if needed, but if not, press the Next > button. A summary screen will display
- 16. Press the Finish button. A new pop up progress bar will display.

Import Virtual Machine	×	Hyper-V Manager		- 🗆 ×
		File Action View Help		
		🖛 🔿 🙍 🖬 🖬 🖬		
Completing	Import Wizard	Hyper-V Manager	Matural Manhiana	Actions
		AT0588-LP	Virtual machines	AT0588-LP
			State CPU Usage Assigned Memory	🖳 Quick Create
Before You Begin	You are about to perform the following operation.			New
Locate Folder	Description			🗟 Import Virtual Machine
Select Virtual Machine				Hyper-V Settings
Select virtual Machine	Virtual Machine: Velocity 2.3.0			Virtual Switch Manager
Choose Import Type	Import file: C:\Users\TamaraClark\Downloads\Velocity 2.3.0\Velocity 2.3.0\\		٢	🛃 Virtual SAN Manager
Choose Destination	Import Type: Copy (generate new ID)		Checkpoints	🚄 Edit Disk
Choose Storage Folders	Ch loftWindows\Hyper-V		No vitual exchine extented	Inspect Disk
Summary	Sn Copying file 1 of 1 (Velocity-AMS-2.3.0-disk001.vh oft\Windows\Hyper-V)		No vitua maunite selecteu.	Stop Service
	Vir ents\Hyper-V\Virtual Hard Disks\			× Remove Server
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	< , , , , , , , , , , , , , , , , , , ,		No item selected.	
	To complete the import and close this wizard, click Finish,			
				1
				1

When the installation is complete, the pop up will close and leave the Hyper-V window.

17. Select **Velocity X.X.X** in the center area. New options will appear on the right.

Hyper-V Manager		- 🗆 ×	Settings for Velocity 2.5.2 on LUBECK-PC	×
File Action View Help			Volume 252	N (8)
🗢 🔿 🙍 🖬 🖬			Velocity 2.3.2	P 0
Hyper-V Manager	[(Actions	Add Hardware	Add Hardware
T0588-LP	Virtual Machines	AT0588-LP	Firmware Y	ou can use this setting to add devices to your virtual machine.
	Name State CPU Usage Assigned Memory	Quick Create	Boot from File S	elect the devices you want to add and click the Add button.
	Velocity 2.3.0 Off	New	Secure Boot enabled	SCSI Controller
		C Import Virtual Machine.	Memory a	Fibre Channel Adapter
		Huner-V Settings	4096 MB	
		Set Virtual Switch Manager	1 Virtual processor	
		Victual SAN Manager	SCSI Controller	Add
	<	China Set Manager	Hard Drive website 252 state	ou can increase the storage supplishe to a virtual machine by adding a CCST controller
	Checkpoints	Edit Disk	Network Adapter	nd attaching virtual hard disks to it.
	The selected virtual machine has no checkpoints.	inspect Disk.	Default Switch	
		Stop Service	A Management	
		X Remove Server	Velocity 2,5,2	
		O Refresh	Integration Services	
		View	All services offered	
		Help	Standard	
		Velocity 2.3.0	Smart Paging File Location	
	Velocity 2.3.0	- Connect.	C:\ProgramData\Microsoft\Windo	
		Settings_	Restart if previously running	
	Configuration Version: 9.0	G Start	Automatic Stop Action	
	Generation: 1	Checkpoint	Save	
	Notes: None	Move		
		E Export		
		- Rename		
	Summary Memory Networking	- Delete		
		Z kielo v	,	
AT0588-LP: 1 virtual machine selected		1 B Pap		OK Cancel Apply
in coos a . I vin dal machine selected				

18. Select Settings... from the menu. A new pop up will appear.



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- 19. Select the + button next to Processor to open new options.
- 20. Select NUMA, new options will appear on the side.





- 21. Select Use Hardware Topology.
- 22. Press **Apply** and then **OK** to close the window.

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- 23. Select Velocity X.X.X from the Virtual machines and press the Start button.
- 24. Once an Atlona screen appears in the preview window, select the Connect... button. A new pop up will appear.



Velocity Installation



While Velocity and Velocity Device Manager can be set up and ran through the Hyper-V appliance, it is best to open a tab within a local network browser and run it there.

25. Type the IP address found on the Hyper-V pop up into the browser and press enter.

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The browser will automatically log in and display the Setup pop up.

Velocity is ready to be used. Follow the instructions for Velocity found in the manual located at <u>https://atlona.com/</u> <u>product/at-vgw-sw/</u> under the resources tab and Velocity Device Manager can be found in the manual located at <u>https://atlona.com/product/at-vdm-sw/</u> under the resources tab.



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