



PSCAD Initializer - System Requirements (Released and Beta Editions)

This document covers the requirements for installing, licensing, and running the Initializer, for Released editions (v1.0.0 and v1.0.1) and Unreleased editions (the Beta Edition).

1. USAGE

Category	Requirements
Operating System	Supported on the following 64-bit editions of Microsoft® Operating Systems: ^[1] <ul style="list-style-type: none">Officially Supported: Windows 7 SP1 64-bit, Windows 10 64-bit Not supported on any of the following Microsoft® Windows Operating Systems: <ul style="list-style-type: none">A 32-bit editionWindows XP, Windows Vista, Windows 7 SP0For v1.0.1+: Windows 8, Windows 8.1
Prerequisite Software	For Initializer v1.0.0: Microsoft® Visual C++ 2017 Redistributables (x86 and x64), minimum ^{[2][3]} For Initializer v1.0.1: Microsoft® Visual C++ 2022 Redistributables (x86 and x64) ^{[2][3]} For Initializer Beta: Microsoft® Visual C++ 2022 Redistributables (x86 and x64) ^{[2][3]} Microsoft® Visual C++ 2012 Redistributables (x86) - For the PFLight.exe utility Microsoft® .NET Framework: <ul style="list-style-type: none">.NET 4.6.1 Full, minimum - For PSCAD Initializer v1.0.0^[3].NET 4.8 - For PSCAD Initializer v1.0.1 and the Beta Edition If using the PFLight utility within the Initializer for load flow study, either an Intel Fortran compiler or Redistributable Libraries for Intel® C++ and Fortran 2020 Compilers for Windows must be installed (not required if using PSS/E)
Launching and Running	Microsoft® Windows User privileges
Licensing	See Item 3, below
Execution Permissions	The Initializer application executable file must be whitelisted in all protection software: <ul style="list-style-type: none">The path may be set generally, as: %PROGRAMFILES%\PSCAD InitializerOr, the path may be specified as: C:\Program Files (x86)\PSCAD Initializer\bin\Initialization.exe
Folder Permissions	The following sub-folders will be created; the user must have full file/folder permissions: <ul style="list-style-type: none">For your settings files: C:\Users\Public\Documents\Manitoba Hydro International\Licensing\SettingsFor your log files: C:\Users\Public\Documents\Manitoba Hydro International\Licensing\Logs



2.a INSTALLATION – Installer Utility

Category	Requirements
Operating System	Any of the following Microsoft® Windows Operating Systems (64-bit editions): <ul style="list-style-type: none">• Preferred: Windows 7 SP1, Windows 10, Windows 11• Other: Windows Server 2008 R2 SP1 or better, Windows Servers 2012/2016/2022 Note - It may be possible to run on a virtual machine. Contact Support for details. Not supported on Windows 7 SP0 or older, or Windows 8, or Windows 8.1
Downloading	Internet connection
Running	Microsoft® Windows Administrator privileges The user must have full permissions for the following path: C:\Users\Public\Documents\
Log File Folder Permissions	The following sub-folders will be created; the user must have full file/folder permissions: <ul style="list-style-type: none">• C:\Users\Your_UserID\AppData\Local\Manitoba HVDC Research Centre\Installer
Microsoft® Visual C++ Redistributables	For Initializer v1.0.0: Microsoft® Visual C++ 2017 (x64) Redistributables For Initializer v1.0.1: Microsoft® Visual C++ 2022 (x64) Redistributables For Initializer Beta: Microsoft® Visual C++ 2022 (x64) Redistributables For the PFLight.exe utility: Microsoft® Visual C++ 2012 (x86) Redistributables

2.b INSTALLATION – MyUpdater

Category	Requirements
Installing	Microsoft® Windows Administrator privileges Internet connection
Access to Product Downloads	Add the first or both of the following URLs to all anti-virus/firewall whitelists: <ul style="list-style-type: none">• https://products.pscad.com• ftp://ftps.pscad.com
Launching (to Install or Update Software)	Microsoft® Windows Administrator privileges Internet connection
Launching (to Uninstall Software)	Microsoft® Windows Administrator privileges
Launching (to Launch Installed Software)	Microsoft® Windows User privileges (unless otherwise specified)
Connection to Publication Server	Add the first or both of the following URLs to all anti-virus/firewall whitelists: <ul style="list-style-type: none">• http://publisher.pscad.com:80/• net.tcp://publisher.pscad.com:443/
Supported Protocols	TLS 1.0, TLS 1.1, TLS 1.2



Microsoft® Visual C++ Redistributables

For Initializer v1.0.0: Microsoft® Visual C++ 2017 (x64) Redistributables
For Initializer v1.0.1: Microsoft® Visual C++ 2022 (x64) Redistributables
For Initializer Beta: Microsoft® Visual C++ 2022 (x64) Redistributables
For the PFLight.exe utility: Microsoft® Visual C++ 2012 (x86) Redistributables

3. CERTIFICATE LICENSING^[4]

Category	Requirements
Certificate	MyCentre user account with access to a licensed WorkGroup
Operational Requirements	Supported on a local desktop, or remote desktop, or over virtual private network (VPN). Not guaranteed in a cloud desktop environment, but could be verified using diagnostic tools.
Connection to the License Server	Add the following two URLs to all anti-virus/firewall whitelists: <ul style="list-style-type: none">• http://licensing.pscad.com:80/Licensing• net.tcp://licensing.pscad.com:443/Licensing
Activate/Release/Refresh a Certificate	Microsoft® Windows User Privileges Internet connection
Using Certificates	The following sub-folders will be created for certificates: <ul style="list-style-type: none">• Path: C:\Users\user_id\AppData\Local\Manitoba Hydro International\Licensing\Licenses• Required permissions: FullControl for <user_id> The following sub-folder should already exist and will be used: <ul style="list-style-type: none">• Path: C:\ProgramData\Microsoft\Crypto\RSA\MachineKeys• Required permissions: Read, Write for Everyone
Supported Protocols	TLS 1.0, TLS 1.1, TLS 1.2

4. DIAGNOSTIC TOOLS

Category	Requirements
Viewing Log Files	Microsoft® Windows User Privileges

Notes

1. The Initializer is not supported on a 32-bit operating system.
2. Both the 32-bit and 64-bit editions of Visual C++ Redistributables are required.
3. If this prerequisite software is not already installed, the user will be prompted to install it when the Initializer is installed.
4. The Fortran Medic Utility can be used to configure a machine for certificate licensing as per this [article](#).



DOCUMENT TRACKING

Rev.	Description	Date
0	Initial	14/Feb/2019
1	Added required permissions re executable files, folders and websites; Added supported protocols	31/Dec/2019
2	Removed support for 32-bit application and operating system	10/Jan/2020
3	Update to folder permissions in Chart 3	27/Oct/2020
4	Update to title and addition of introductory sentence. Added Beta Edition to this document Update to Prerequisites and Redistributables In Charts 1, 2.a and 2.b New Note #4	09/Oct/2021
5	Update to Charts 1 and 2 Update to v1.0.1	10/Oct/2021
6	Update to .NET version for Initializer v1.0.1 in Chart 2	01/Dec/2021
7	Update to Microsoft Visual C++ 2022 in Charts 1, 2.a, 2.b Update to Windows 11 in Chart 2.a	29/Mar/2023