

## PRSIM - System Requirements (V1 Released and Unreleased Editions)

This document covers requirements for installing, licensing, and running the PRSIM Released editions v1.0.0 and v1.1.0, and the Unreleased BETA Edition.

### 1. USAGE

| Category              | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System      | <p>Supported on the following 64-bit editions of Microsoft® Operating Systems:<sup>[1]</sup></p> <ul style="list-style-type: none"> <li>Officially Supported: Windows 7 SP1 64-bit, Windows 10 64-bit</li> <li>Appears to work on Windows 11</li> </ul> <p>Not supported on any of the following Microsoft® Windows Operating Systems:</p> <ul style="list-style-type: none"> <li>A 32-bit edition</li> <li>Windows XP, Windows Vista, Windows 7 SP0</li> <li>For PRSIM v1.0.1+: Windows 8, Windows 8.1</li> </ul> |
| Prerequisite Software | <p>For PRSIM v1.0.0:</p> <ul style="list-style-type: none"> <li>Microsoft® Visual C++ 2017 Redistributables (x86 and x64), minimum<sup>[2]</sup></li> <li>Microsoft® .NET Framework 4.6.1 Full, minimum<sup>[3]</sup></li> </ul> <p>For PRSIM v1.1.0 and PRSIM BETA:</p> <ul style="list-style-type: none"> <li>Microsoft® Visual C++ 2022 Redistributables (x86 and x64)<sup>[2]</sup></li> <li>Microsoft® .NET Framework 4.8, minimum<sup>[3]</sup></li> </ul>                                                   |
| Launching and Running | Microsoft® Windows User privileges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Licensing             | See Section 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Execution Permissions | <p>The PRSIM application executable file must be whitelisted in all protection software:</p> <ul style="list-style-type: none"> <li>C:\Program Files (x86)\PRSIM\&lt;version&gt;\bin\win64\PRSIM.exe</li> </ul>                                                                                                                                                                                                                                                                                                    |
| Folder Permissions    | <p>The following sub-folders will be created, and the user must have full file/folder permissions:</p> <ul style="list-style-type: none"> <li>For your settings files:<br/>C:\Users\Public\Documents\Manitoba Hydro International\Licensing\Settings</li> <li>For your log files:<br/>C:\Users\Public\Documents\Manitoba Hydro International\Licensing\Logs</li> </ul>                                                                                                                                             |

### 2.a INSTALLATION – Installer Utility

| Category         | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System | <p>Any of the following Microsoft® Windows Operating Systems (64-bit editions):</p> <ul style="list-style-type: none"> <li>Preferred: Windows 7 SP1, Windows 10</li> <li>Other: Windows 11, Windows Server 2008 R2 SP1 or better, Windows Servers 2012/2016/2019/2022</li> </ul> <p>Note - It may be possible to run on a virtual machine. Contact <a href="#">Support</a> for details.</p> <p>Not supported on Windows 7 SP0 or older, or Windows 8, or Windows 8.1</p> |
| Downloading      | Internet connection                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                              |                                                                                                                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Running                      | <ul style="list-style-type: none"> <li>Microsoft® Windows Administrator privileges</li> <li>The user must have full permissions for the following path:<br/>C:\Users\Public\Documents\</li> </ul> |
| Log File Folder Permission   | The following sub-folder will be created, and the user must have full file/folder permissions:<br>C:\Users\<Your_UserID>\AppData\Local\Manitoba HVDC Research Centre\Installer                    |
| SCCM, PSAppDeploy, or Intune | Successful installation via these products is <b>not</b> currently supported or guaranteed.                                                                                                       |

## 2.b INSTALLATION – MyUpdater

| Category                                     | Requirements                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"> <li><a href="https://products.pscad.com">https://products.pscad.com</a></li> <li><a href="ftp://ftp.pscad.com">ftp://ftp.pscad.com</a></li> </ul>                                                                                                                                                    |
| Installing                                   | Microsoft® Windows Administrator privileges<br>Internet connection                                                                                                                                                                                                                                                                                                                                                         |
| Launching<br>(to Install or Update Software) | Microsoft® Windows Administrator privileges<br>Internet connection                                                                                                                                                                                                                                                                                                                                                         |
| Launching<br>(to Uninstall Software)         | Microsoft® Windows Administrator privileges                                                                                                                                                                                                                                                                                                                                                                                |
| Launching<br>(to Launch Installed Software)  | Microsoft® Windows User privileges<br>(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"> <li><a href="http://publisher.pscad.com:80/">http://publisher.pscad.com:80/</a></li> <li><a href="net.tcp://publisher.pscad.com:443/">net.tcp://publisher.pscad.com:443/</a></li> </ul>                                                                                                              |
| Supported Protocols                          | TLS 1.0, TLS 1.1, TLS 1.2                                                                                                                                                                                                                                                                                                                                                                                                  |
| Proxy support                                | Not all proxy servers or proxy configurations are supported.<br>Operation with NTLM, SAML, OIDC and Certificate authentication proxies is not supported at all.<br>If your proxy server or proxy configuration is not supported, the proxy server will need to be bypassed for all MyUpdater traffic to the specified URLs above.<br>Alternatively you can contact our support desk for alternative download instructions. |
| HTTP Service                                 | Add to all anti-virus/firewall whitelists:<br><a href="http://publisher.pscad.com/Updater/ClientService">http://publisher.pscad.com/Updater/ClientService</a>                                                                                                                                                                                                                                                              |

## 3. CERTIFICATE LICENSING<sup>[4]</sup>

| 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 | MHI Product must be permitted to communicate with the License Server over the Internet: <ul style="list-style-type: none"> <li>Add the following two URLs to all anti-virus/firewall whitelists:<br/> <a href="http://licensing.pscad.com:80/Licensing">http://licensing.pscad.com:80/Licensing</a><br/> <a href="net.tcp://licensing.pscad.com:443/Licensing">net.tcp://licensing.pscad.com:443/Licensing</a> </li> <li>If there is a proxy server, then communication to the server must either be permitted <a href="#">through the proxy server</a> or bypassed around the proxy server (see below).</li> </ul> |

#### Proxy support

Not all proxy servers or proxy configurations are supported.

Operation with NTLM, SAML, OIDC and Certificate authentication proxies is not supported at all.

If your proxy server or proxy configurations is not supported, the proxy server will need to be bypassed for all licensing traffic.

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Activate/Release/Refresh a Certificate | Microsoft® Windows User Privileges<br>Internet connection                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Using Certificates                     | <p>The following sub-folders will be created for certificates:</p> <ul style="list-style-type: none"> <li>Path: C:\Users\user_id\AppData\Local\Manitoba Hydro International\Licensing\Licenses</li> <li>Required permissions: FullControl for &lt;Your_UserID&gt;</li> </ul> <p>The following sub-folder should already exist and will be used:</p> <ul style="list-style-type: none"> <li>Path: C:\ProgramData\Microsoft\Crypto\RSA\MachineKeys</li> <li>Required permissions: Read, Write for Everyone</li> </ul> |
| Supported Protocols                    | <p>For PRSIM v1.0.0: TLS 1.0</p> <p>For PRSIM v1.1.0 and PRSIM BETA: TLS 1.0, TLS 1.1, TLS 1.2</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |

## 4. DIAGNOSTIC TOOLS

| Category          | Requirements                       |
|-------------------|------------------------------------|
| Viewing Log Files | Microsoft® Windows User Privileges |

#### Notes

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

## DOCUMENT TRACKING

| Rev. | Description                                                                                                                                  | Date        |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 0    | Initial                                                                                                                                      | 14/Feb/2019 |
| 1    | Correction to software naming convention                                                                                                     | 14/Aug/2019 |
| 2    | Update to folder permissions in Chart 3                                                                                                      | 27/Oct/2020 |
| 3    | Update to title and addition of introductory sentence<br>Update to requirements and additional notes<br>Update to v1.0.1                     | 09/Oct/2021 |
| 4    | Corrected Release Number from v1.0.1 to v1.1.0<br>Minor fixes                                                                                | 03/Nov/2022 |
| 5    | Corrections to Prerequisite software and TLS Protocols                                                                                       | 03/Nov/2022 |
| 6    | Minor correction to prerequisite software                                                                                                    | 03/Nov/2022 |
| 7    | Update to Chart 2.b                                                                                                                          | 08/Dec/2022 |
| 8    | Specifying no support for SCCM, PSAppDeploy, or Intune (Chart 2.a)                                                                           | 02/Jul/2026 |
| 9    | Update to document title<br>Updating limitations regarding proxy servers (Charts 2.c, 3)<br>Specified HTTP Service for MyUpdater (Chart 2.c) | 07/Aug/2026 |
|      |                                                                                                                                              |             |