To use SPS Software, a valid user license is required. Each user must have unique credentials for license management and secure access.

Your username is the email address you provided to OPAL-RT when registering for SPS. OPAL-RT will provide a temporary password, which you must reset on your first login via the Customer License Portal. This portal also allows you to download the SPS Software.

After installation, when running a MATLAB model with SPS components for the first time, you will be prompted to enter your credentials. This authentication links your license to your account.

Step 1 – Create your SPS user password

1. Open your web browser and go to OPAL-RT license portal: https://opalrt.customer.cryptlex.com/
2. On the portal's login page, click **Forgot password?**
3. Enter the email address associated with your Cryptlex license.
4. Within a few seconds, you will receive an email with a link to reset your password.
5. Click the link and follow the instructions to create your new password.

Important Note About Licensing

Each SPS user must have a valid license associated with their account.
If multiple users will be using SPS within your organization, please contact OPAL-RT so that we can prepare and assign the appropriate licenses for each user.

Step 2 – Download the SPS Software toolbox

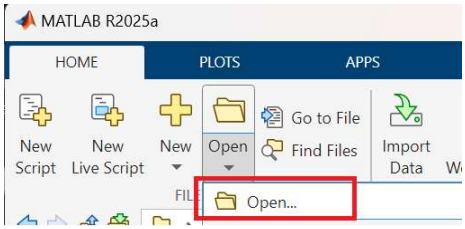
The latest version of the toolbox can be downloaded at the following link

https://smartpowersimulationsoftware.com/download/

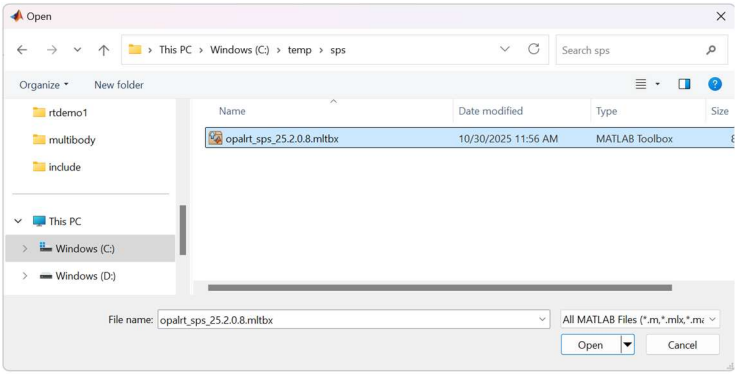
Step 3 - Install OPAL-RT SPS Software

The initial SPS Software release is compatible with MATLAB R2025b.

1. Copy the provided **.mltbx** file to a convenient location on your computer.
2. Launch MATLAB.
3. In the MATLAB toolbar, click **Open**.



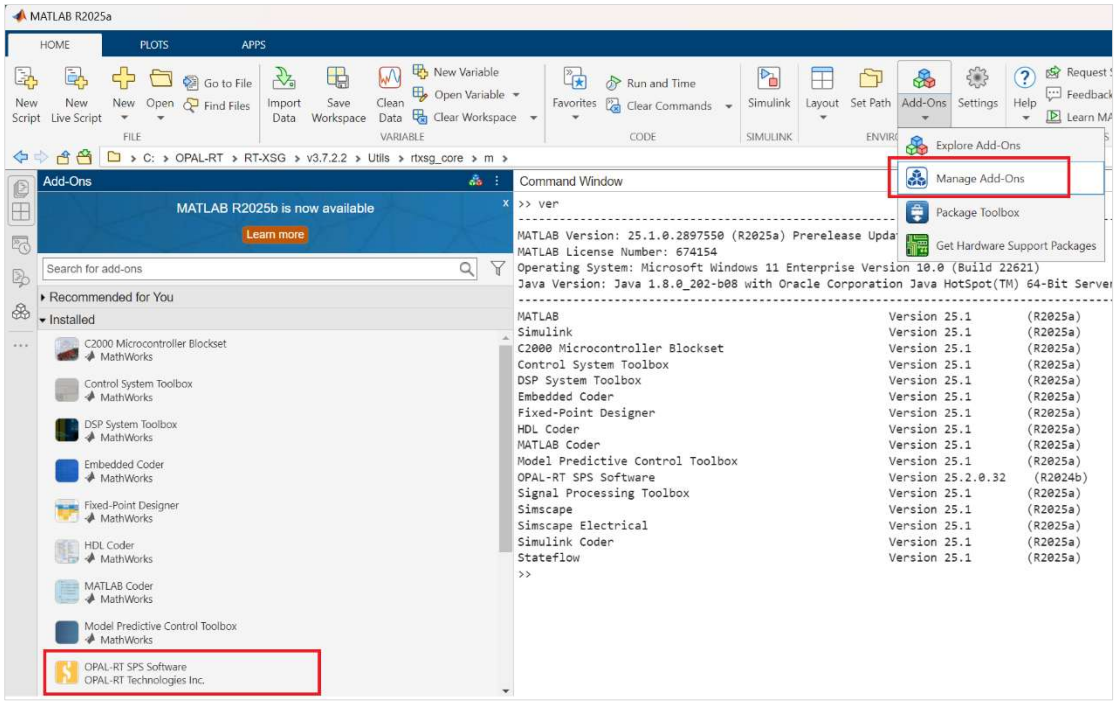
4. In the file dialog, select the **.mltbx** file.



5. MATLAB will launch the **Add-On Installer** and guide you through the installation process.

6. Note that the SPS Software will be only installed in this specific MATLAB version.

7. Once installation is complete, verify that the SPS Software appears under:
   Home → Add-Ons → Manage Add-Ons



Step 4 – Enter your SPS user credentials

Open and run an existing SPS model or one of the example models to be prompted for your credentials. Authentication is required only the first time you run an SPS model after installation.

Opening an Example Model

- To open an example model, type the following command in the MATLAB Command Window:

```matlab
>> open('%model_name%')
```

Replace **%model_name%** with the name of the desired example.

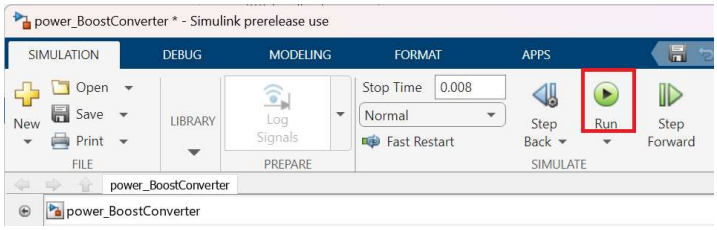
- For a complete list of available example, refer to the example models section in the SPS documentation. The documentation for each example includes the exact command to open it.

For instance, to open the **Boost Converter** example, type:

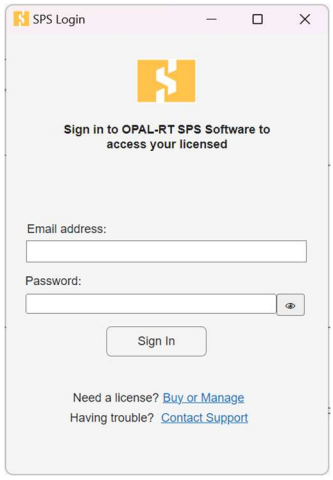
```matlab
>> open('power_BoostConverter')
```

Running the Simulation

1. Click the **Run** button to start the simulation.



2. A dialog window will appear, prompting you to enter your credentials.



3. Enter your email address and password.
4. Once authenticated, SPS will validate your license and complete the registration process.

More information about login management can be found here.

Optional – Selecting the version of SPS

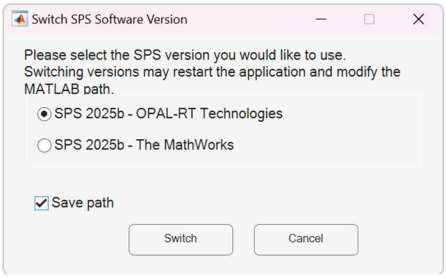
With MATLAB R2025b, it is possible to have two versions of the SPS Software available within the same MATLAB installation:

- The legacy version, previously developed and distributed by The MathWorks, (available with SimScape Electrical Specialized Technology), and
- The new version, developed and maintained by OPAL-RT Technologies.

While OPAL-RT strongly recommends using the latest SPS version for optimal features, performance, and support, you may switch back to the legacy version if desired. Please note that only one version can be active at a time.

1. In the MATLAB Command Window, type the following command:

2. A dialog window will appear, allowing you to choose which version of SPS you wish to activate.



3. Optionally, you can save your selection so that MATLAB automatically uses the same version the next time it starts.
    - To do this, simply select the option to save the configuration to MATLAB's path when prompted.

Once completed, your chosen version will be active and ready to use.