Step 1 – How to Obtain Your User Password for SPS

When you launch the SPS software in MATLAB for the first time, you will be prompted to enter your username and password through an authentication form.

This authentication process is necessary to associate your SPS usage with a valid user license. Each user must have their own credentials to ensure proper license management and software access control.

Your username corresponds to the email address you provided to OPAL-RT when registering for the SPS software. A temporary password will be created by OPAL-RT for your account. To ensure confidentiality, you will need to reset this password during your first login by following the procedure below. Your new password will be managed through OPAL-RT's customer license portal.
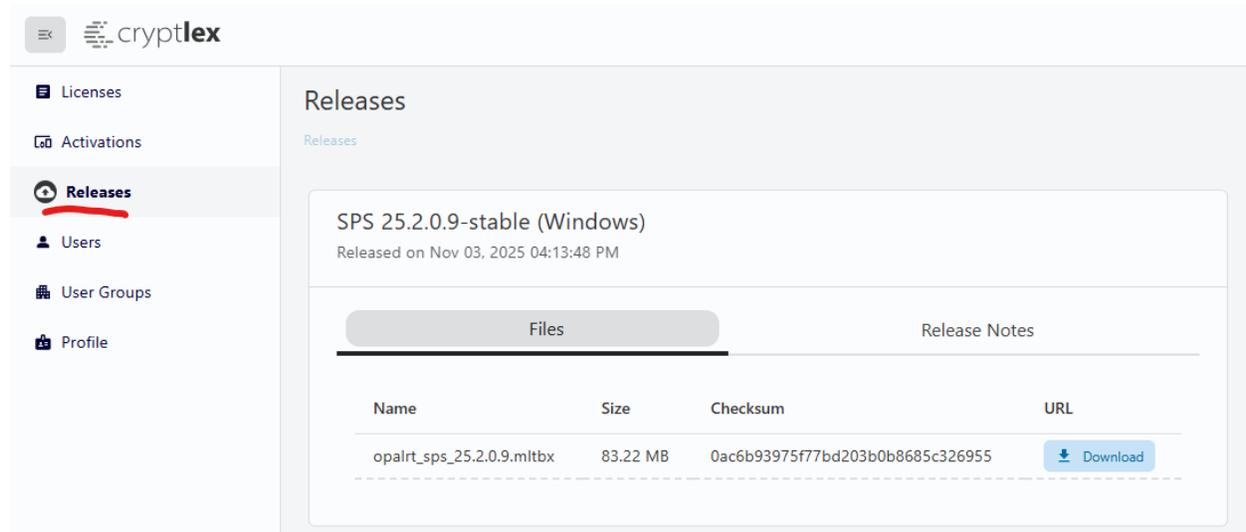
Steps to Obtain Your Password

1. Open your web browser and go to opal-rt licence portal:
   https://opalrt.customer.cryptlex.com/
2. On the portal's login page, click "Forgot password?"
3. Enter your email address.
4. Within a few seconds, you will receive an email containing a link to reset your password.
5. Click the link in the email and follow the instructions to create a 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.

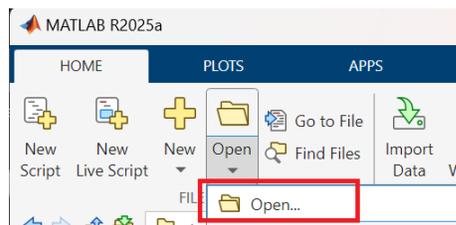# Step 2 – Download SPS Software toolbox.

After updating your password, connected to your portal and navigate to the release page where you can download the latest version.
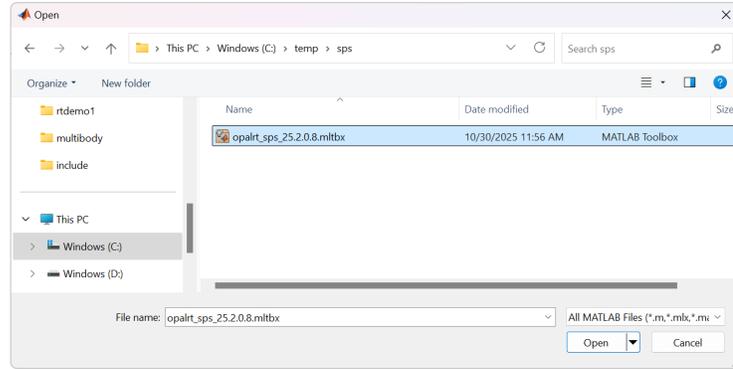

Step 3 - Install OPAL-RT SPS Software

The SPS Software is provided as a MATLAB Toolbox file (.mltbx). You can download the .mltbx file from the OPAL-RT website. This version is compatible with MATLAB R2024b, R2025a and R2025b.

1. Copy the provided .mltbx file to a convenient location on your computer.

2. Open the MATLAB application.

3. In MATLAB, click the open button from the main MATLAB toolbar.
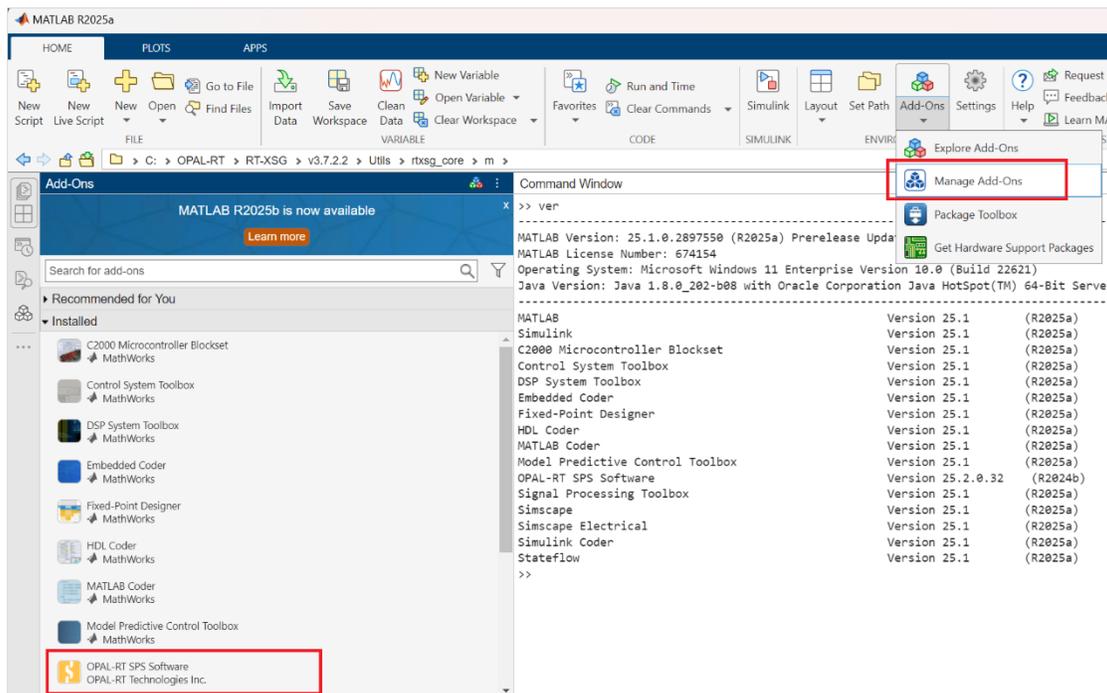

4. Using the file dialog select the .mltbx file

5. MATLAB will launch the Add-On installer and guide you through the process.

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

Once the installation is complete, you can verify that SPS Software appears in :
Home → Add-Ons → Manage Add-Ons.

Step 4 – Log in to SPS

Return to MATLAB, then open an existing SPS model or one of the example models.

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 models, refer to the example models section in the SPS documentation. Each example's documentation includes the exact command to open it.
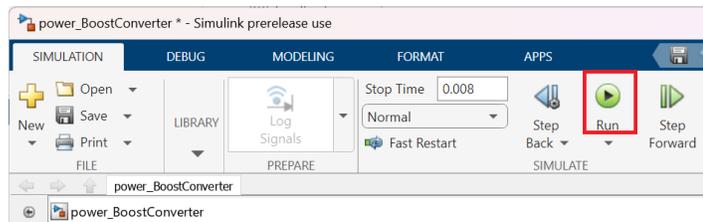
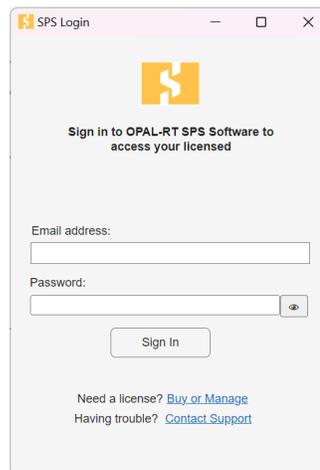For instance, to open the **Boost Converter** example, type:

```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.

Step 5 – Selecting the Version of SPS

With MATLAB R2024b, R2025a, and 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

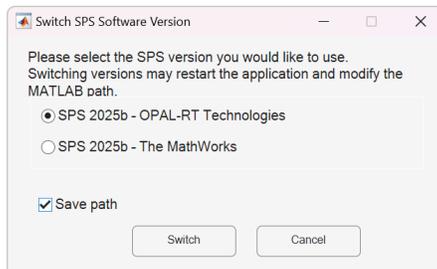- The new version, developed and maintained by OPAL-RT Technologies.

While we strongly recommend using the latest OPAL-RT version of SPS for improved features, performance, and support, you may still switch back to the legacy version if needed.
Only one version can be active at a time.

Steps to Select the Desired Version

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

```
matlab

>> switchSPS
```

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.

   o 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.