How to Create a New Spider System

A test in EDM requires hardware to run. This hardware is represented as a **Spider system**, which consists of one or more Spider modules. This article walks through connecting your Spider modules and creating a new Spider system in EDM.

Prerequisites

- One or more Spider modules, powered on and connected to the PC's network.
- All modules must be on the **same subnet** as the PC. See *How to Connect the Spider System to the PC* for IP configuration details.
- The first module must be set as the **“master”** (flip the switch to **“M”**); all other modules are **“slaves.”**

Steps to Create a Spider System

1. Click **Hardware** in the top toolbar, or navigate to **Setup > Select Hardware**.
2. Choose **Select 1 module** or **Select system (1+ modules)**.
3. Click **New system**.
4. In the **Detected modules** section, select each module to add to your system.
5. Set the first module as the master, and all other modules as slaves.
6. Click **OK**.

How to Swap the Spider System for the Current Test

If a test is already loaded, you don't need to create a new test to use a different Spider system — you can swap the hardware assigned to the current test using either of the following methods.

Method 1: From Recent Tests

1. Go to **Recent Tests**.
2. Find the current test, then either:
    - Click the down arrow next to the test's system name, **or**
    - Right-click the current test's system name.
3. Select **Switch System**.
4. Choose the replacement system from the list.

Method 2: From Select Hardware

1. Click **Hardware** in the top toolbar, navigate to **Setup > Select Hardware**, or click the circle **“i”** button in the Control Panel (shown when the system is **Offline**).
2. On the **Select system (1+ modules)** tab, choose the replacement system from the predefined systems list (instead of clicking **New system**).
3. Click **OK** to connect the current test to the selected system.

Managing Spider Systems

To manage existing Spider systems, go to **Tools > Spider Configuration**. If this option is disabled, disconnect from the current Spider system first.

The **Spider System Configuration** window allows you to:

- Create new Spider systems.
- Rename or delete existing systems.
- Set default systems for tests.
- Configure IP addresses.
- Set up digital I/O.
- Synchronize the Spider's datetime clock with the PC.
- Import and export Spider system configurations as SSK files.

Troubleshooting

If the PC does not detect your Spider modules:

- Confirm all modules and the PC share the same subnet (first three numbers of the IP address must match).
- Verify connectivity with the **ping** command in the Command Prompt (e.g., `ping 172.0.0.100`).
- Disable other network adapters, or raise the network priority of the Spider adapter.
- Check that Ethernet cables/ports are functioning and power adapters are supplying adequate power.

For a full walkthrough of IP setup and troubleshooting, see *How to Connect the Spider System to the PC*.

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