



## Getting Started

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## About the Cisco Connected Grid Design Suite

The Cisco Connected Grid Design Suite (CGDS) supports electrical and operational engineers as they design, configure, and monitor distributed communications networks that are capable of enabling next-generation use cases today. The CGDS helps utilities to both implement new, automated substations, and maintain and retrofit existing substations.

The CGDS provides the CGDS Substation Workbench that allows substation engineers to dynamically develop, model, and test the substation local area network (LAN) both before and after installation. It provides real-time visualization and monitoring of the integrated substation LAN from Intelligent Electronic Devices (IEDs) and switches to authorized and unauthorized IP-enabled devices.

The CGDS offers two installers to install the following CGDS components:

- **CGDS Monitor**—Run an ISO image on a bare UCS or Advantech box base RHEL 5.8 OS to install the CGDS Monitor. For more information, see the [Chapter 2, “Installing and Configuring the CGDS Monitor”](#).
- **CGDS Designer**—The InstallAnywhere installer installs the CGDS Designer on a Windows 7 based system. For more information, see the [Chapter 3, “Installing and Configuring the CGDS Designer”](#).

## Collecting Required Information

You will need the following information during installation:

### For the CGDS Monitor

- An IP address for the CGDS server and Monitoring layer respectively, and the following details:
  - Netmask
  - Gateway IP address
  - One or more name server IP addresses (DNS)
- Ensure that the CGDS server is connected to the SPAN/RSPAN/ERSPAN switch ports to monitor the network traffic.

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- Must be aware of the network traffic redirection configuration in switch for redirecting all of the traffic in the substation to the CGDS Monitor.

**For the CGDS Designer**

- The Oracle database must be installed.
- Must have the following information:
  - Oracle Instance IP address.
  - Credentials to access the Oracle database and permissions to create and access the tables.
  - SID and port number of Oracle.
- The IP address of the CGDS Monitor to validate the substation configuration.
- Web Services Management Agent (WSMA) service must be installed on the CGDS server.

## Verifying the Network Configurations

Verify the following network configurations:

- All of the machines are configured to be on the same locale.
- The system time is synchronized on all of the machines.