Add secondary distribution box configuration



Overview

To add this distribution point as a member to an existing a distribution point group, choose Add. In the Add to Distribution Point Groups window, select an existing group, and then choose OK.

Key Takeaways

A secondary distribution box, or subpanel, is configured by selecting the location, connecting it to the main panel via a feeder, installing breakers, and properly grounding and labeling all circuits.

Planning and Location

Before installation, determine the location of the secondary distribution box. It should be close to the load it serves, easily accessible, and comply with clearance requirements: at least 3 feet of clear working space in front, 30 inches wide, and extending from the floor to 6. 5 feet high.

Avoid damp, excessively hot, or obstructed areas to ensure safety and code compliance (NEC Article 110. 26).

Selecting the Panel and Components

Choose a subpanel or secondary unit substation with the appropriate voltage and amperage rating for your needs. Residential subpanels typically range from 100–200 amps, while secondary unit substations may handle 208–600 V with transformers sized 300–3750 kVA. Ensure the panel includes bus bars, neutral and ground bars, and circuit breaker slots.

© 2026 METRA FIBER MARKET - All rights reserved

Wiring the Subpanel

Turn off the main power to prevent electrical hazards. Run a feeder cable from the main panel to the subpanel. Use appropriately rated conductors and conduit.

For residential setups, a 4-wire feeder (two hots, neutral, and ground) is standard. Connect the feeder to the subpanel: hot wires to the bus bars, neutral to the neutral bar, and ground to the ground bar. In a subpanel, neutral and ground must remain separate to prevent stray currents.

Install circuit breakers in the subpanel according to the load requirements. Each breaker should be rated for the specific circuit it protects. Connect branch circuits to the breakers, labeling each for easy identification.

Grounding and Safety

Proper grounding is essential. In residential subpanels, the ground bar is bonded to a grounding electrode, but the neutral is isolated from the ground. In larger secondary substations, grounding may involve external links or dedicated conductors to ensure continuity and safety.

Testing and Inspection

After wiring, inspect all connections and ensure breakers are correctly installed. For residential installations, a licensed electrician or local inspector should verify compliance with electrical codes and issue any required permits. For industrial or commercial secondary substations, ensure all switchgear, transformers, and busbars are tested for proper operation and fault protection.

Advantages of a Secondary Distribution BoxReduces long cable runs and power lossesProvides localized control and protectionAllows for expansion without overloading the main panelImproves voltage regulation and service continuity By following these steps and adhering to safety standards, a secondary distribution box can be effectively configured to provide reliable and flexible power distribution.

Article Content

Install and configure distribution points in Configuration Manager

To add this distribution point as a member to an existing a distribution point group, choose Add. In the Add to Distribution Point Groups window, select an existing group, and then choose OK.

How to Add a Second Breaker Box (Subpanel)

By installing a subpanel, you prevent the need for excessive long runs of individual branch circuit wiring back to the main service location. Selecting the placement for the subpanel

© 2026 METRA FIBER MARKET - All rights reserved

How to Add Another Breaker Box (Subpanel)

A subpanel, often referred to by homeowners as “another breaker box,” is a secondary electrical distribution center powered by a circuit from the main service panel. Installing one allows

SCCM 2207 and Secondary site or DP role (create new System Site

For high availability, I need to remove DP first and share the content of DP, then install a passive site server. But what I cannot see on your Links, when and where can I add my DP? For

SCCM 2503: Configure Distribution Points

In a new video, Dean Ellerby presents a practical guide to configuring a SCCM 2503 Distribution Point (DP) from scratch. The video targets both lab environments and

Assign Multiple distribution systems to a piece of equipment

I am trying to modify my electrical transfer switch family to include multiple distribution systems. This device needs to power to a normal power panel but also power to a life safety panel.

Step by Step Guide for SCCM Secondary Site Installation

Many organizations choose to use a single primary site and later add one or more secondary sites. Secondary sites can help control bandwidth utilization by managing the flow of client

How to Install SCCM Distribution Point | ConfigMgr DP

In this article, I will show you how to set up or install SCCM distribution point. We will look at ConfigMgr DP Installation and Configuration from scratch.

Secondary unit substations design guide

secondary unit substation is a close-coupled assembly consisting of enclosed primary high voltage equipment, three-phase power transformers, and enclosed secondary low-voltage

Select a Distribution System

The list contains all of the available distribution systems that match the voltage specification of the panel or transformer, ordered according to distance from the load (closest at the top).

How To Install A Second Circuit Breaker Box From The Main

© 2026 METRA FIBER MARKET - All rights reserved

When you run out of space in your electrical service panel (also called a breaker box), you have two choices: have a professional upgrade the service panel or install a subpanel yourself.

Secondary Distribution Box

6a0d6022-9e51-481d-b5f5-bb72a07ca7c1 The Secondary Distribution Box (SDB) receives power from Main Power Distribution box via an extender cable and provides a central power distribution to feed

How to Add a Second Breaker Box (Subpanel)

A second breaker box, more commonly referred to as a subpanel, functions as a power distribution point downstream from your main electrical service panel. Its purpose is to take a single,

Step by Step Guide for SCCM Secondary Site Installation

Welcome to post on step by step guide for SCCM secondary site installation. In this post we will understand the concept of ConfigMgr secondary sites. Also we will see how to install SCCM

Install and Configure SCCM/Configuration Manager Secondary Site

How to Install & Configure SCCM/Configuration Manager Secondary Site - Part - 8 In this video guide we will learn step by step method on Installing a SCCM Secondary Site Server Step by Step. We ...

How to Add a Subpanel (with Pictures)

To add a sub panel, also known as a breaker box, to add more circuit capacity, start by checking with your city''s building and codes department to see if you need a permit. You''ll also want to find a good light source that can run off a battery or generator so you can see what you''re working on once the

Setting Up Cisco ISE in a Distributed Environment

This chapter describes the type of nodes, personas, roles, and services that constitute Cisco ISE, and how to configure Cisco ISE nodes and create a Cisco

SCCM 2207 and Secondary site or DP role (create new System Site

2) Based on your steps, we should add the SCCM site server Computer account to the Local Administrators group on the new DP server before Create Site System Server. 3) Besides,

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 METRA FIBER MARKET - All rights reserved

Contact Us

Continue your research online:

Website: https://metramarket.es
Technical inquiry: https://metramarket.es/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 METRA FIBER MARKET - All rights reserved