

Configuring an RSD and Creating PSDs

To configure a Root System Domain (RSD), create Protected System Domains (PSDs) under it, and assign FPCs from the T Series router and Routing Engines from the JCS1200 routing platform to each PSD, perform the following steps.



NOTE: Several of the values set through the following JUNOS configuration statements must match the values set by the `baydata` command through the JCS management module CLI. For the `baydata` command format, see `baydata`.

1. Log in to the master Routing Engine on the T Series router.
2. At the `[edit chassis system-domains]` hierarchy level, include the `root-domain-id root-domain-id` configuration statement. The range of values for `root-domain-id` is 1 through 3.

This value for this statement must match the `SD` value set through the `baydata` command.

3. At the `[edit chassis system-domains]` hierarchy level, include the `protected-system-domains psdn` configuration statement. The range of values `n` is 1 to 31.
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NOTE: The PSD identifier must be unique for each RSD. For example, if PSD1 is assigned to RSD1, neither RSD2 nor RSD3 can contain PSD1.

The value for this statement must match the `PSD` value set through the `baydata` command.

4. At the `[edit chassis system-domains protected-system-domains psdn]` hierarchy level, include the following statements:
 - `control-plane-bandwidth-percent percent`—Assign the percentage of bandwidth that exists on the JCS switch modules and the T Series Control Boards (T-CBs) to the PSD. The range of values is 1 to 100. Allocating bandwidth prevents potential overutilization by one PSD over another.
 - `description description`—Provide a description for the PSD.
 - `fpcs [slot-numbers]`—Assign FPCs to the PSD.
For JUNOS Software Release 9.4, supported values for `slot-numbers` are 0 through 7.
 - `control-system-id control-system-id`—Assign an ID to the JCS1200 platform. The value for `control-system-id` can be 1 through 4.

The value for this statement must match the `JCS` value set through the `baydata` command.

- **control-slot-numbers** [*control-slot-numbers*]—Assign a Routing Engine or pair of redundant Routing Engines on the JCS1200 platform to the PSD.

The value for *control-slot-numbers* for the primary Routing Engine assigned to the PSD must match the REP value set through the JCS management module **baydata** command. Similarly, the value for *control-slot-numbers* for the backup Routing Engine must match the REB value set through the **baydata** command. In the absence of any JUNOS CLI configuration that affects mastership, the Routing Engine in the slot indicated by REP will boot as the master, and the Routing Engine in slot REB will boot as the backup. See **baydata**.

- Related Topics**
- Protected System Domains
 - System Domains Configuration Hierarchy
 - Example: Configuring a JCS1200 Platform and a Single T Series Router
 - Example: Configuring a JCS1200 Platform and Multiple T Series Routers

Published: 2010-04-12