

Redundant Host Subsystems in a Routing Matrix with a TX Matrix Plus Router

The TX Matrix Plus router and every T1600 router in the routing matrix is configured with redundant host subsystems.

- In a TX Matrix Plus router, the independent control planes are connected by two physical links between the two 10-Gigabit Ethernet ports on their respective Routing Engines. The primary link to the remote Routing Engine is at the `ixgbe0` internal 10-Gigabit Ethernet interface. The alternate link to the remote Routing Engine is at the `ixgbe1` internal 10-Gigabit Ethernet interface. If one of the two links between the host subsystems fails, both Routing Engines can use the other link for IP communication.
- In a T1600 router in a routing matrix, the independent control planes are connected by two physical links between the Gigabit Ethernet ports on their respective Routing Engines. The primary link to the remote Routing Engine is at the `bcm0` internal Ethernet interface. The alternate link to the remote Routing Engine is at the `em1` internal Ethernet interface. If one of the two links between the host subsystems fails, both Routing Engines can use the other link for IP communication.

Two Routing Engines provide redundancy and graceful Routing Engine switchover (GRES) capabilities.



NOTE: If GRES is configured, the CLI command prompt indicates Routing Engine mastership (`{master}` or `{backup}`) and physical slot number (`-re0` or `-re1`).

For example, the following CLI prompt indicates that you are logged in to the master Routing Engine in slot `RE0` of the router with hostname `mylcc3`:

```
{master}  
user@mylcc3-re0>
```

The following CLI prompt indicates that you are logged in to the backup Routing Engine in slot `RE1` of the router with hostname `mylcc3`:

```
{backup}  
user@mylcc3-re1>
```

- Related Topics**
- [Routing Matrix with a TX Matrix Plus Router Solutions Page](#)
 - [Overview of a Routing Matrix with a TX Matrix Plus Router](#)
 - [Roadmap for Configuring the Routing Matrix](#)

- Example Configuration for the Routing Matrix
- Upgrading the JUNOS Software on the Routing Matrix

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