

Automatic Switchover

A DRAFT

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<https://docs.vmware.com/>

BETA DRAFT

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Contents

Contents	3
Configure Automatic SIM Switchover	4

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Configure Automatic SIM Switchover

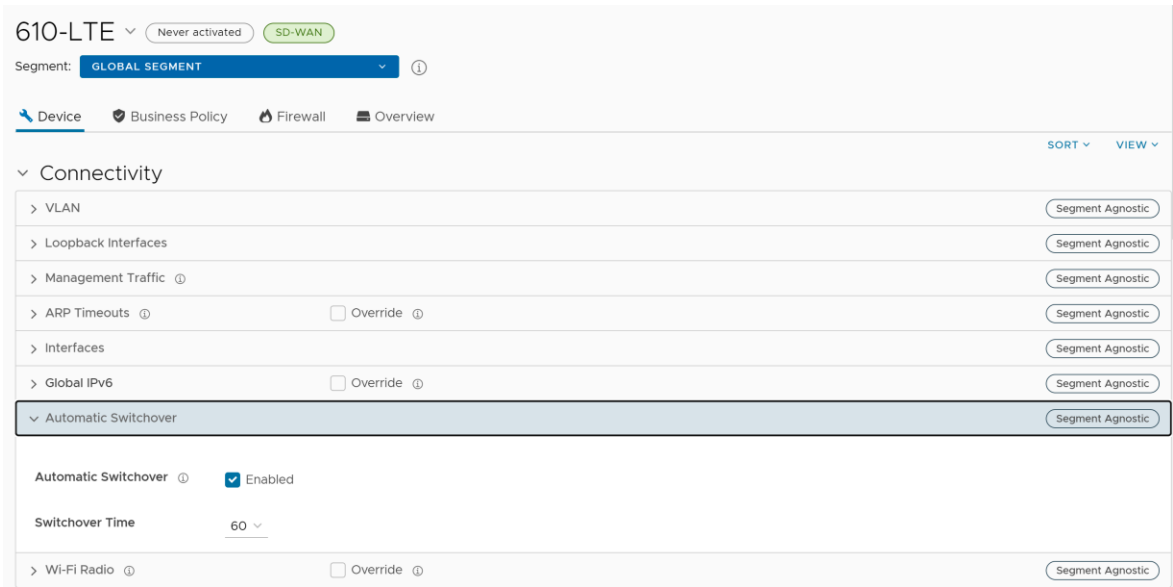
This feature allows you to automate the process of LTE SIM switching in case of primary LTE connection failure. You can configure the Edge to automatically detect the primary LTE link failure and thereby initiate the process of establishing the secondary LTE link. When the **Automatic Switchover** feature is activated, and for some reason, the secondary LTE link is also down, the Edge tries to establish the connection with the primary link again. This process continues until the Edge detects an active LTE link. Also, if automatic switchover is in progress, manual switchover cannot be performed on the Edge.

Prerequisites

- You must insert SIM cards in both the SIM slots on the Edge.
- This feature can be activated only on a standalone Edge where **High Availability** is deactivated. An error is displayed on the Orchestrator if you try to activate both, **High Availability** and **Automatic Switchover** features.
- Navigate to **Configure > Edges > Device tab > Interface Settings**, and make sure that the **IP Type**, **L2 Settings**, and **WAN Overlay** settings are same for both Cell1 and Cell2. Other parameters like **SIM PIN**, **Network**, and **APN** need not be same.
- Both Cell1 and Cell2 interfaces must be activated before activating the **Automatic Switchover** feature.

To access this feature, follow the below steps:

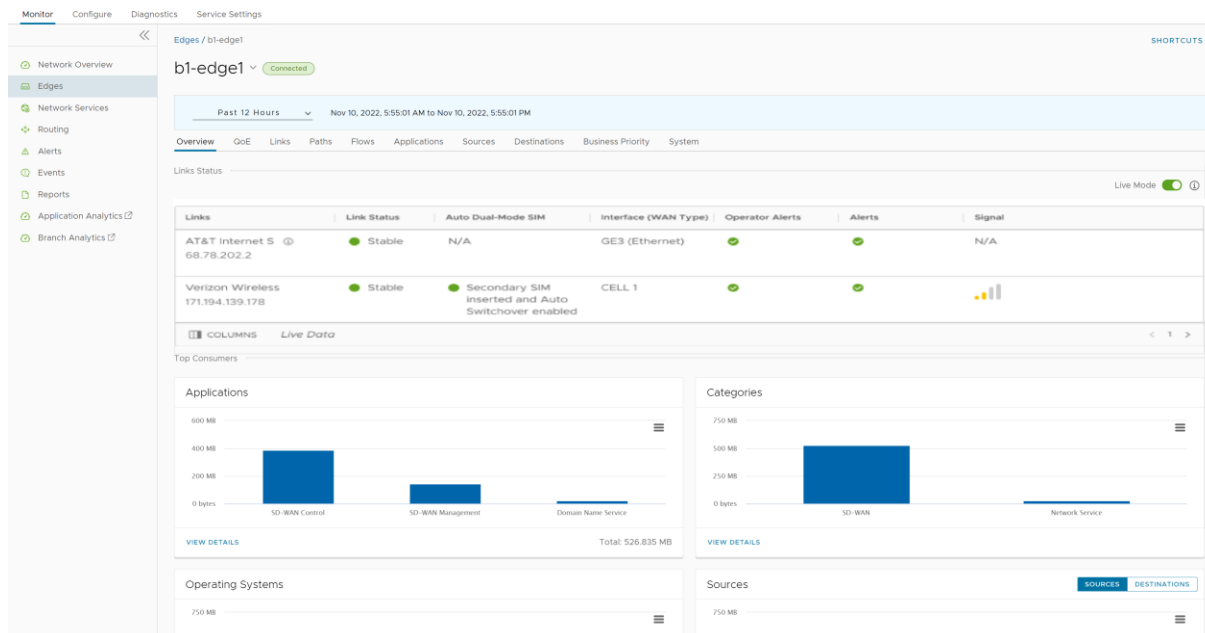
- 1 In the Enterprise portal, click **Configure > Edges**. The **Edges** page displays the existing Edges.
- 2 Click the link to an Edge or click the **View** link in the **Device** column of the Edge. The configuration options for the selected Edge are displayed in the **Device** tab.
- 3 In the **Connectivity** category, expand **Automatic Switchover**. The following screen appears:



4 You can configure the following settings, and then click **Save Changes**:

Option	Description
Automatic Switchover	Select the Enabled check box to activate this feature.
Switchover Time	Select the time after which the Edge must switchover to the secondary LTE link. The Edge detects the connection failure and waits till the specified Switchover Time to initiate the switchover process. This helps in avoiding any unnecessary switchovers happening due to link flaps. Once initiated, the switchover happens in 4 to 5 minutes. The available values are 30 , 60 , and 90 seconds. By default, 60 is selected.

To monitor the Edge Switchover status, go to **Monitor > Edges**, and then click the link to your Edge. The **Overview** tab is displayed by default.



- The **Auto Dual-Mode SIM** column displays the status of the Edge with respect to the **Automatic Switchover** feature configured on that Edge, and is applicable only for a **610-LTE**. See the table below for the colour code details:

Colour	Status
Green	Indicates that the Secondary SIM is inserted and the Automatic Switchover feature is activated.
Amber / Orange	Indicates that the Secondary SIM is inserted and the Automatic Switchover feature is deactivated.
Purple	Indicates that the Secondary SIM is not inserted and the Automatic Switchover feature is activated.
Red	Indicates that the Secondary SIM is not inserted and the Automatic Switchover feature is deactivated.

- The **Signal** column displays the signal strength of the Edge. This is indicated by the number of bars, which vary depending on the signal strength. Below are the details:

Signal Strength (dB)	Number of Bars
-10 to -85	4
-86 to -102	3
-103 to -110	2
-111 to -120	1
-121 to -999	0

The Switchover status can also be viewed on the **Monitor > Events** page. The following two events are displayed on the screen when the **Automatic Switchover** feature is activated.

Event	Description
EDGE_AUTO_SIM_SWITCH	This event is triggered in the following scenarios when the Automatic Switchover feature is activated or deactivated: <ul style="list-style-type: none">■ The Automatic Switchover feature fails to get activated after the Orchestrator sends the configuration to the Edge.■ During the switchover process, when there is at least one active WAN link on the Edge.
EDGE_CELL_SWITCHOVER	This event is triggered after the cell switchover process, irrespective of whether the process was successful or not.

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