Automatic Switchover



You can find the most up-to-date technical documentation on the VMware website at:

https://docs.vmware.com/

VMware, Inc. 3401 Hillview Ave. Palo Alto, CA 94304 www.vmware.com

Copyright $^{\ensuremath{\mathbb{C}}}$ 2023 VMware, Inc. All rights reserved. Copyright and trademark information.

Contents

Contents	 .3
Configure Automatic SIM Switchover	 .4

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:

610-LTE V (Never activated) (SD-WAN)	
Segment: GLOBAL SEGMENT V	
🔧 Device 🛛 🕏 Business Policy 🔥 Firewall 🚍 Overview	
~ Connectivity	SORT Y VIEW Y
> VLAN	(Segment Agnostic)
> Loopback Interfaces	(Segment Agnostic)
> Management Traffic ①	(Segment Agnostic)
> ARP Timeouts () Override ()	(Segment Agnostic)
> Interfaces	(Segment Agnostic)
> Global IPv6 Override ①	Segment Agnostic
✓ Automatic Switchover	(Segment Agnostic)
Automatic Switchover	
Switchover Time 60 ~	
> Wi-Fi Radio Override	(Segment Agnostic)

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

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.

Monitor Configure Diagno:	stics Service Settings	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Edges / b1-edge1	SHORTCUTS ~
<ul> <li>Network Overview</li> </ul>	b1-edge1 ~ Connected	
📾 Edges		
Network Services	Past 12 Hours v Nov 10, 2022, 5:55:01 AM to Nov 10, 2022, 5:55:01 PM	
Routing	Overview QoE Links Paths Flows Applications Sources Destinations Business Priority S	istem
▲ Alerts		
Q Events	Links Status	Live Mode 🌔 🛈
Reports		
Application Analytics 2	Links Link Status Auto Dual-Mode SIM Interface (WAN	Type) Operator Alerts Alerts Signal
<ul> <li>Branch Analytics II</li> </ul>	AT&T Internet S (1) Stable N/A GE3 (Etherner 68.78.202.2	t) 🔹 🔍 N/A
	Verizon Wireless Stable Secondary SIM CELL 1 171.194.139.178 Secondary SIM CELL 1 inserted and Auto Switchover enabled	اا <b>،.</b> • •
	COLUMNS Live Data	< 1 >
	Top Consumers	
	Applications	Categories
	600 MB	750 MB
	400 MB	500 MB
	200 M8	250 MB
	0 bytes SD-WAN Control SD-WAN Management Domain Name Service	0 bytes SD-WAN Network Service
	VIEW DETAILS Total: 526.835 MB	VIEW DETAILS
	Operating Systems	Sources DESTINATIONS
	750.48	750 M8

 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 <b>Automatic Switchover</b> feature is activated.
Amber / Orange	Indicates that the Secondary SIM is inserted and the <b>Automatic Switchover</b> feature is deactivated.
Purple	Indicates that the Secondary SIM is not inserted and the <b>Automatic Switchover</b> feature is activated.
Red	Indicates that the Secondary SIM is not inserted and the <b>Automatic Switchover</b> 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 <b>Automatic Switchover</b> feature is activated or deactivated:
	The Automatic Switchover feature fails to get activated after the Orchestrator sends the configuration to the Edge.
	<ul> <li>During the switchover process, when there is at least one active WAN link on the Edge.</li> </ul>
EDGE_CELL_SWITCHOVER	This event is triggered after the cell switchover process, irrespective of whether the process was successful or not.