FatPipe Auto Configuration



Objectives

Desired Functionality

- Centralised Management of all Appliances
- •Pro-active monitoring of WAN Infrastructure
- •Ability to analyze and raise alerts when thresholds in wan behavior are crossed.

Fatpipe Orchestration

Standalone or "On Device" Orchestrator

Manage all appliances from a "single window"

Key based branch appliance management

Templates based policy management

Intelligent separation of paths based on ISP Link Types

Mix Mesh or Hub and Spoke topologies based on requirements.

Auto-detection of changes in topology and re-calibrate the network.

Extensive reporting on the WAN.

Identify WAN bottlenecks before they become a major problem.



Types and Licensing

Feature	License string	Functionality	Menu and extra options in the UI
Orchestration	СМ	Manage devices & templates.	Orchestration menu option Template Check box in VPN / MPSec Global Policy Routing Rules Global QoS
EnterpriseView Reporting	EV	Gather statistics and show reports	EnterpriseView menu option
HQ Device	HUB	HeadEnd device deployed at DC. Involved in actual routing	No extra options in the UI.
Branch	-	Edge device deployed at branches. Involved in actual routing.	No extra options in the UI.

Orchestration Device Type	Description
CONTROLLER	Work as a Orchestrator only. Will not participate in Routing. No IPSec/MPSec/PRR templates will be applied.
HQ	Work as a HeadEnd device. Participate in routing, download templates and apply them in the device. Able to create multiple key configurations to the same Orchestrator to support multiple topologies.
BRANCH	Work as an edge device. Participate in routing, download templates and apply them in the device. Can create only one key configuration to an Orchestrator .

Process Flow Information

- •Node contacts the Orchestrator.
- •Orchestrator validates the Contacting device.
- •Node provides its Network information to the Orchestrator.
- •Node asks for the templates. Orchestrator gives the templates based on the key.
- •Node configures itself based on the templates.
- •Orchestrator re-configures itself based on the Node details and hands over the node details to the other nodes when those nodes poll for new information.
- •Network is auto-populated and connection established.

Deployment Options

Scenario 1: Large Deployments

Orchestrator and EnterpriseView are deployed on a separate device.

HUBs are deployed at the DC/DR.

Branch is deployed at the edges

Scenario 2: Medium and Small Deployments

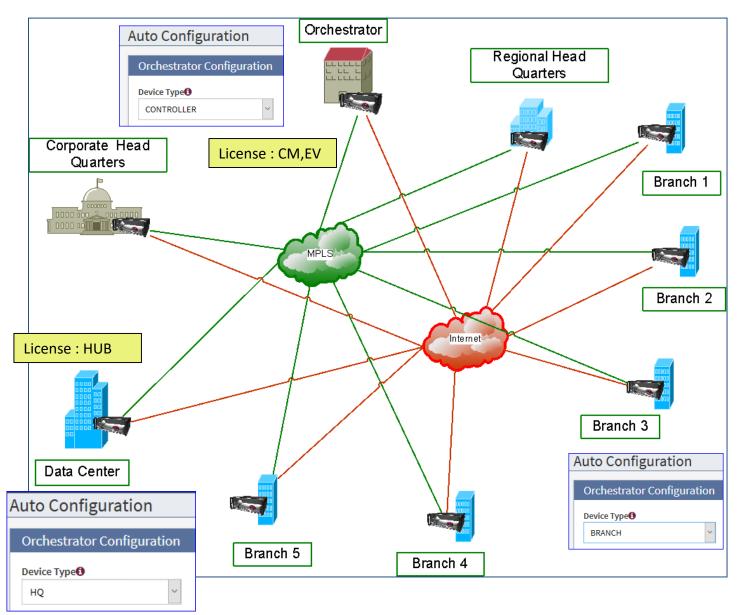
Orchestrator, EnterpriseView and HUB are deployed on the same device.

Branch is deployed at the edges

Featues can be clubbed on a single device or installed on separate devices depending on the requirement.

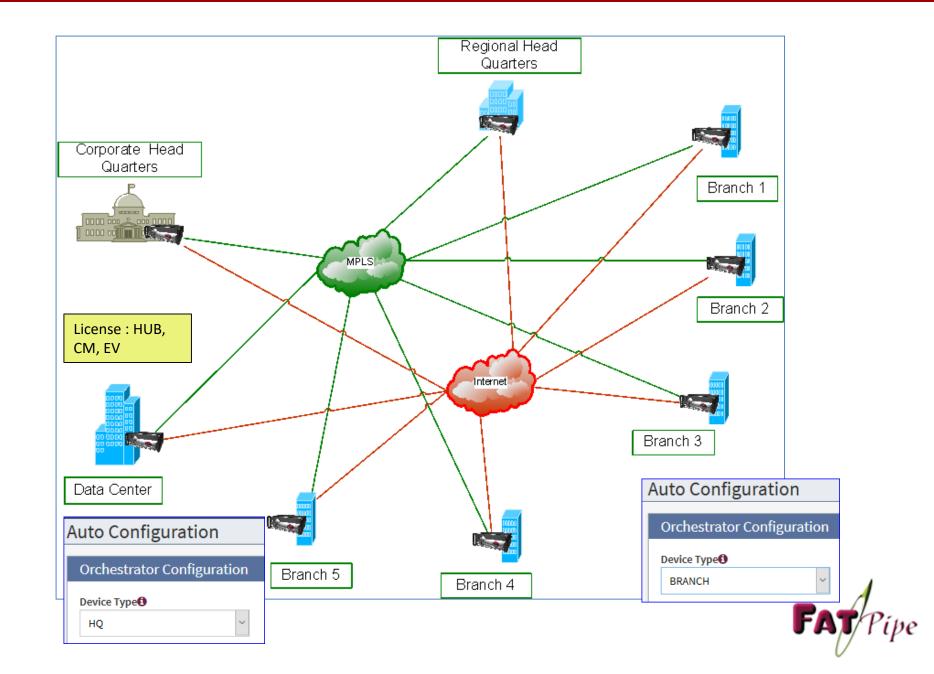


Scenario 1

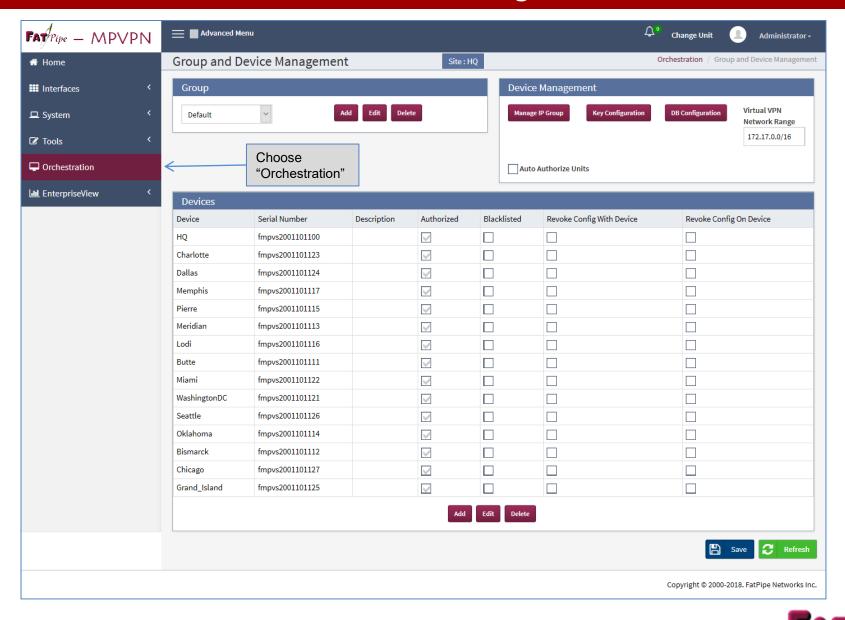




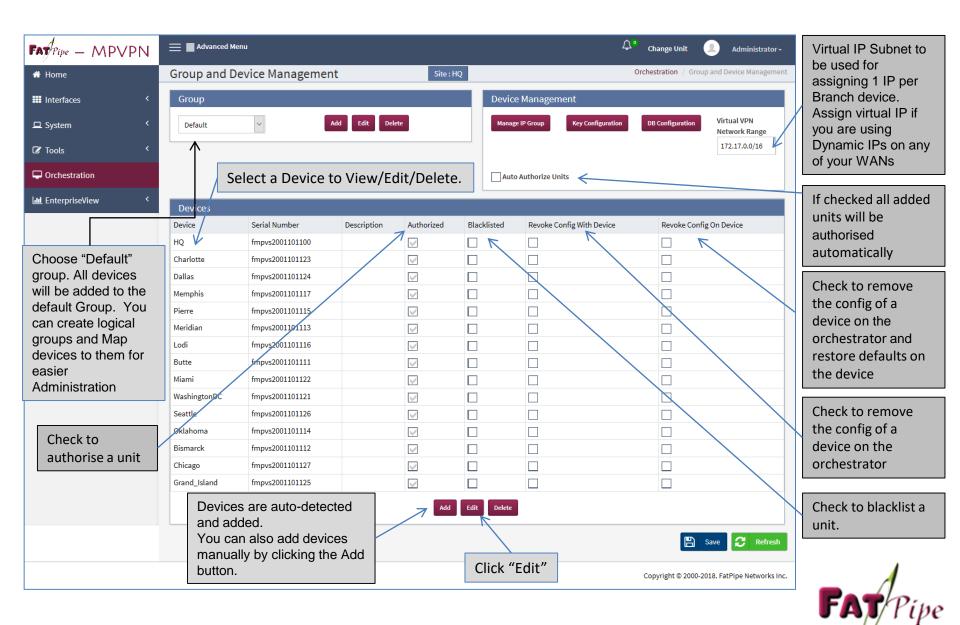
Scenario 2



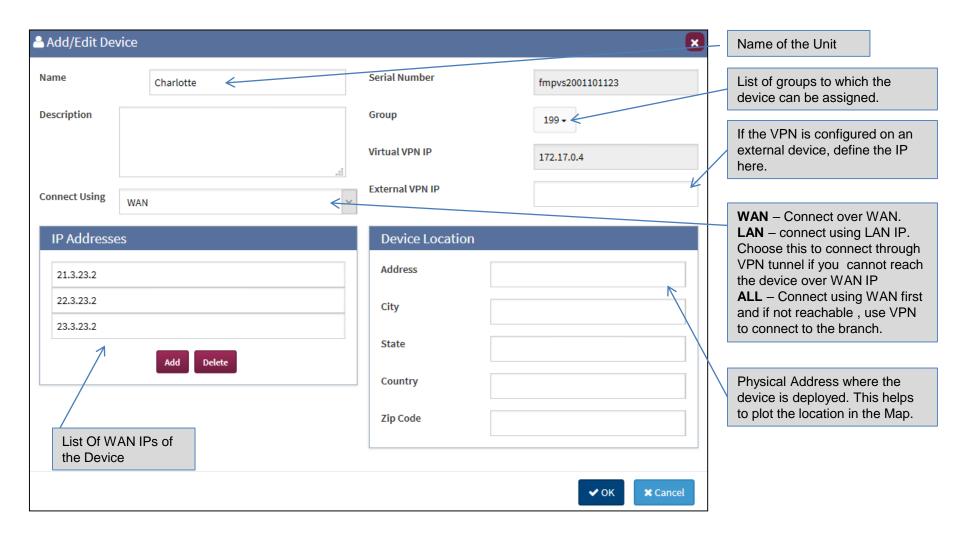
Orchestrator Configuration



Device Management

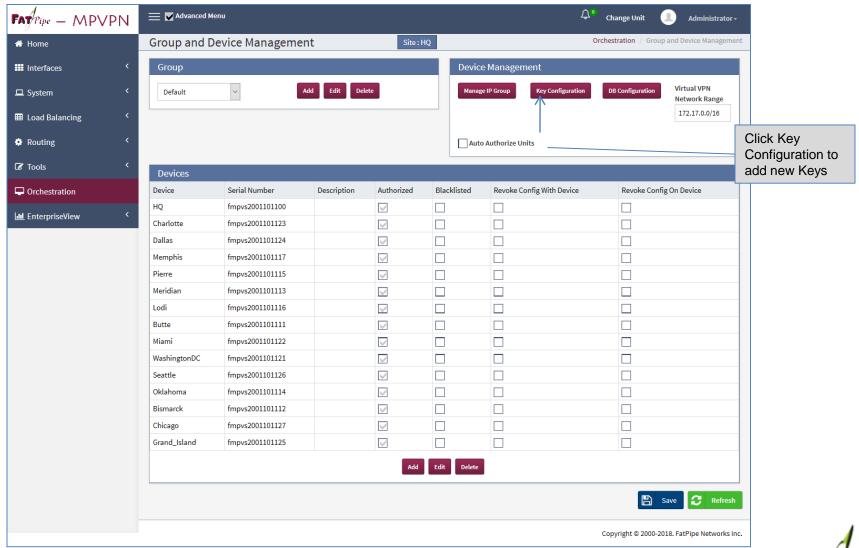


Device Management – Device configuration



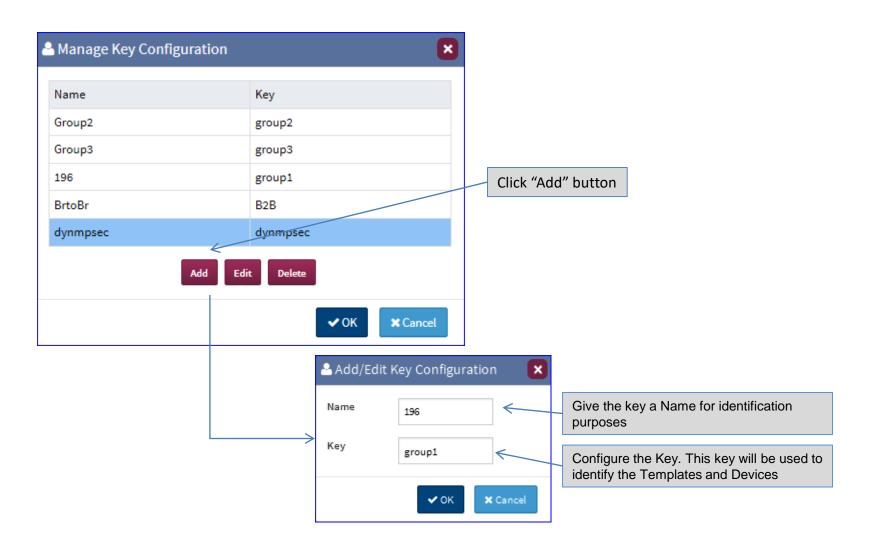


Key Configuration



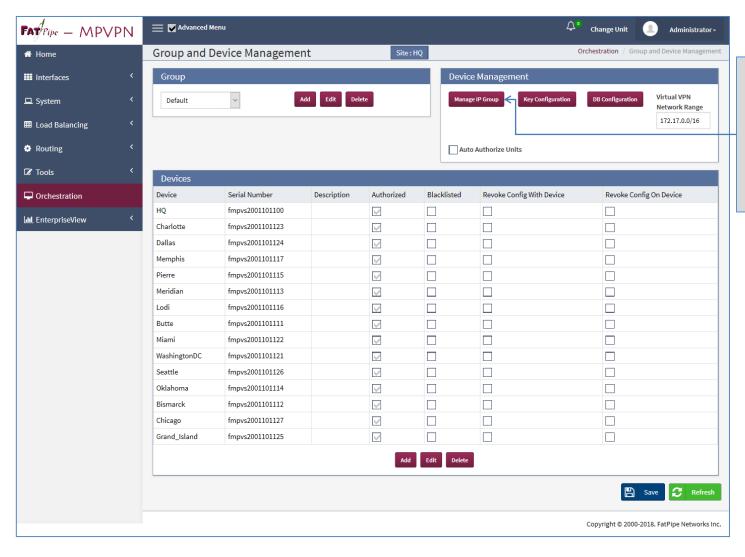


Key Configuration - Manage Keys





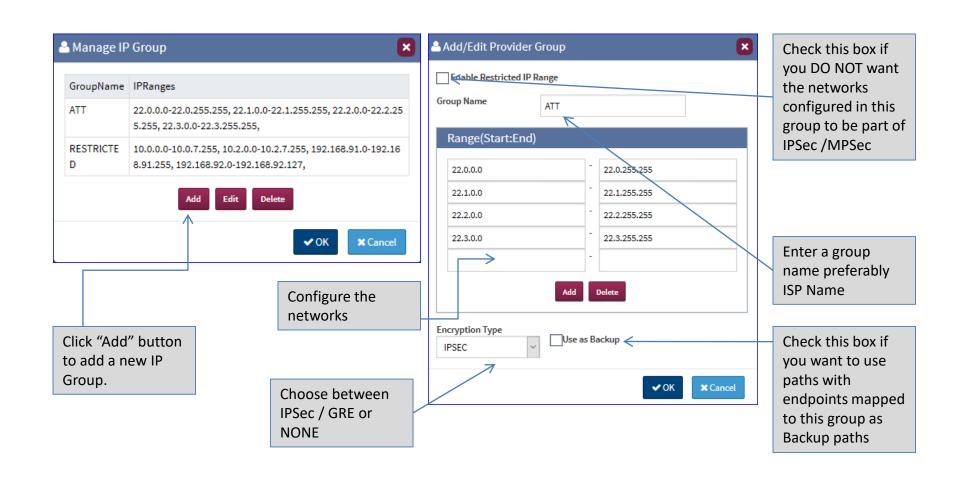
ISP Management



If we have private Links (MPLS), Click on "Manage IP Group" to isolate networks based on IP subnets. This ensures a mesh is not created between private links

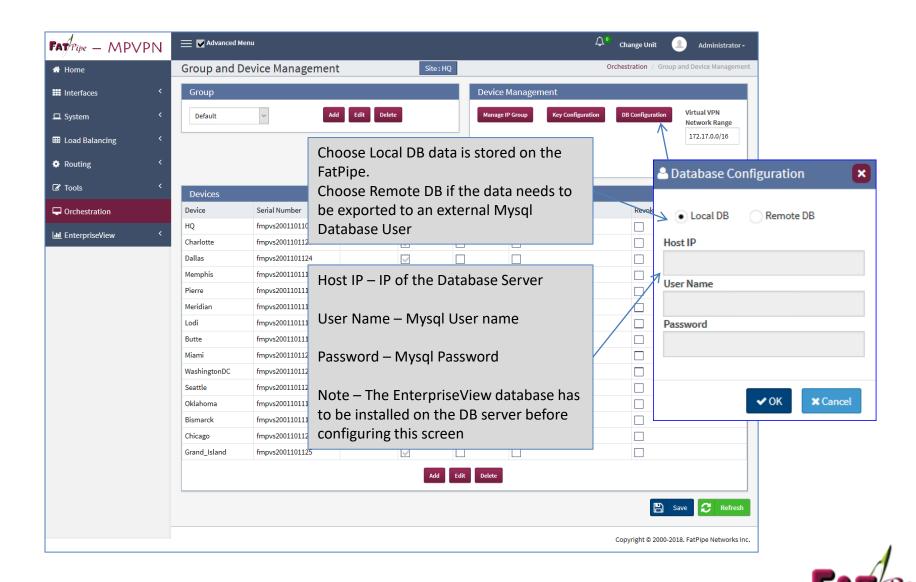


ISP Management – Manage IP Groups





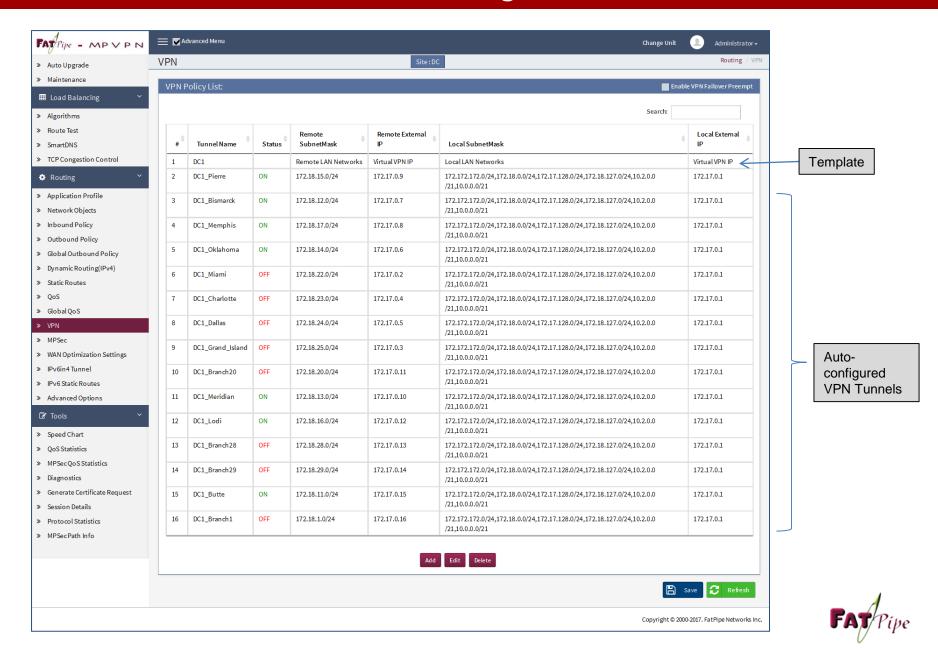
Database Management



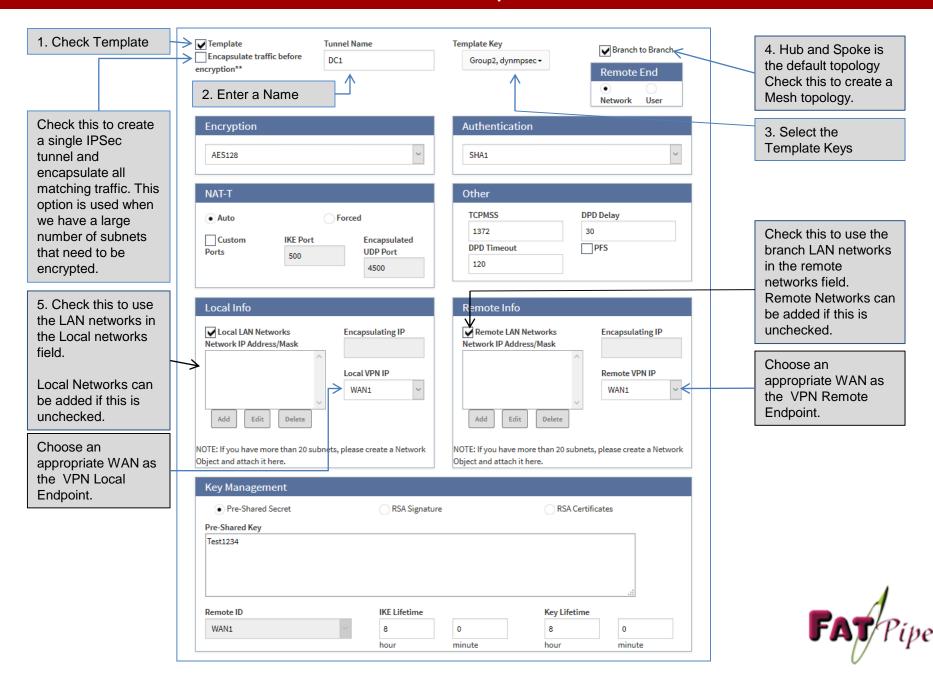
Orchestration Creating Templates



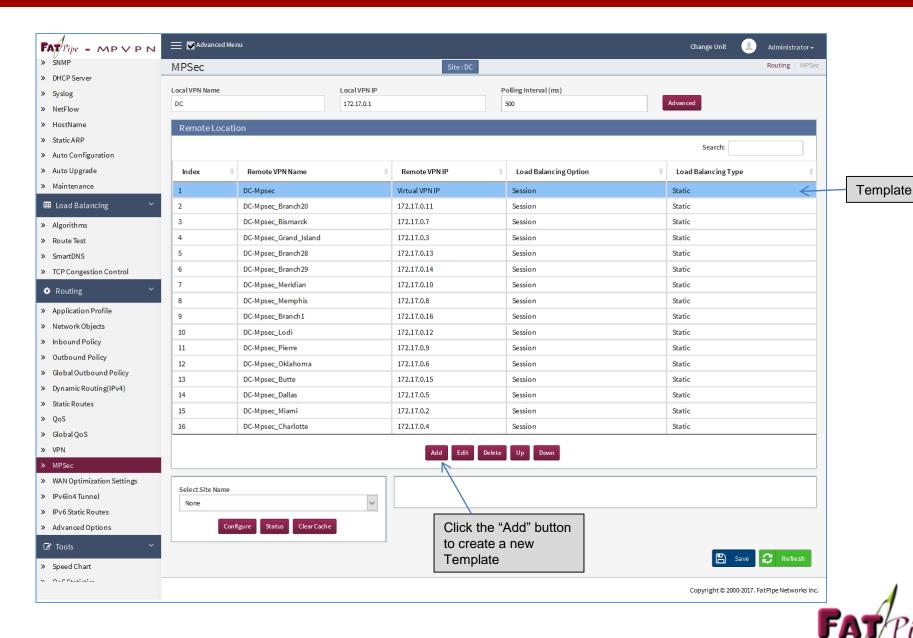
VPN Page



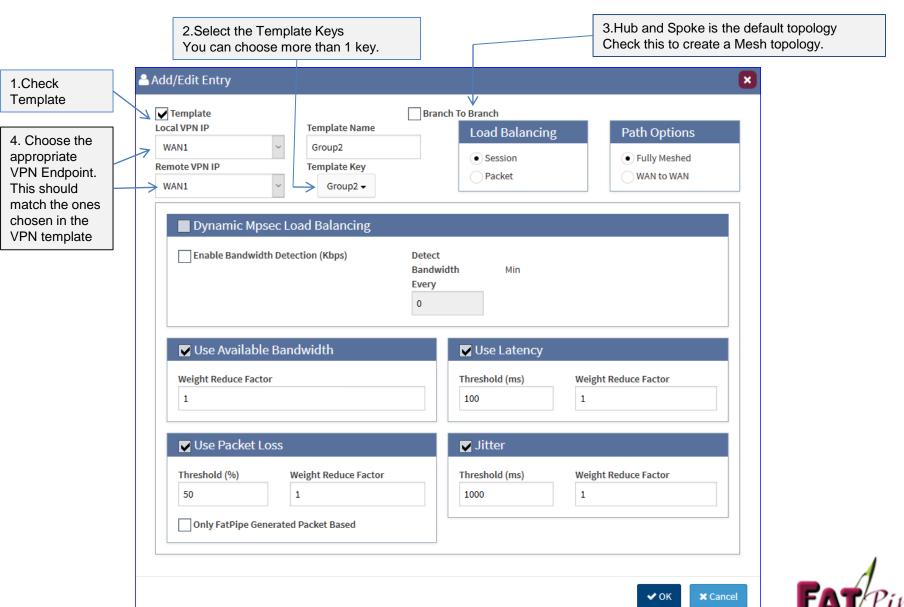
VPN Template



MPSec Page

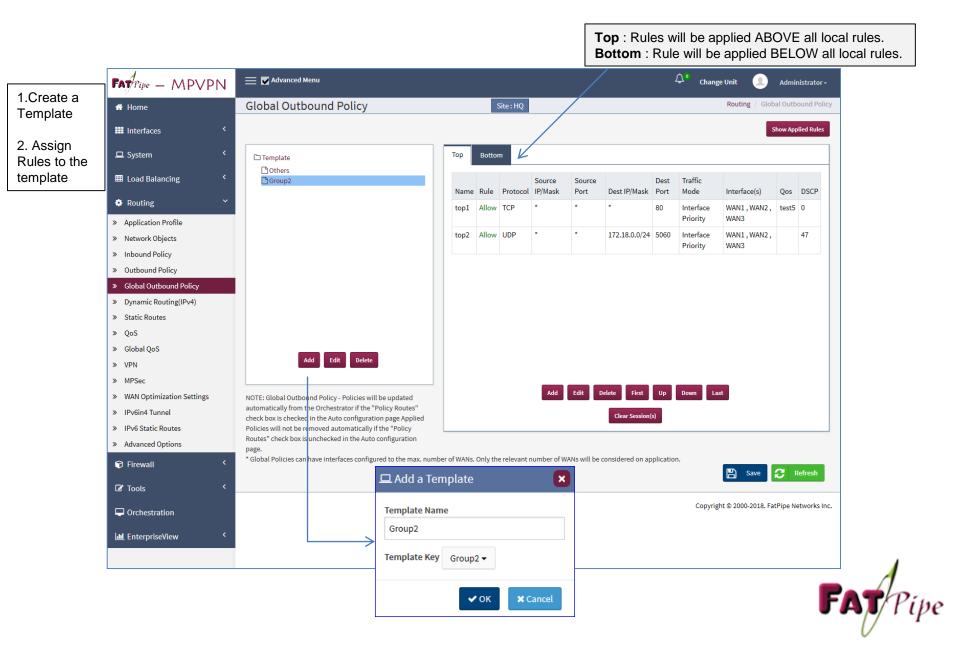


MPSec Template

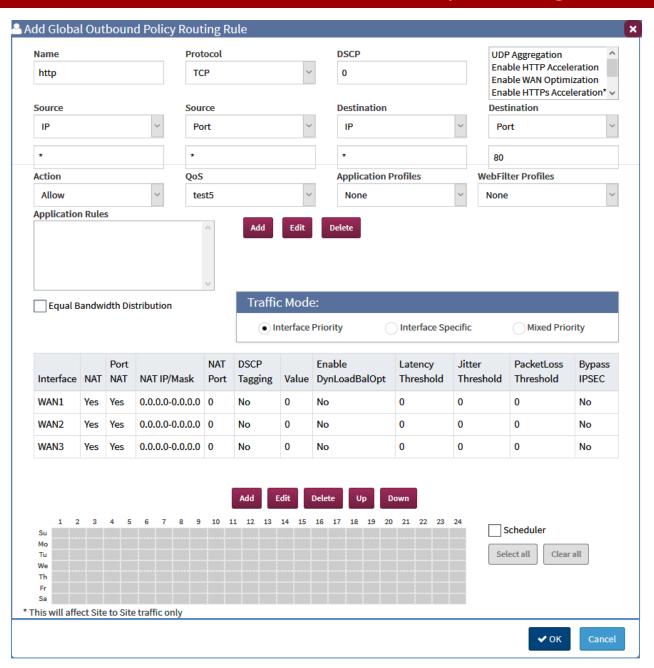




Global Outbound Policy Routing Rules - configuration



Global Outbound Policy Routing Rules



The PRR creation rules are the same as the regular Outbound Policy Routing Rules



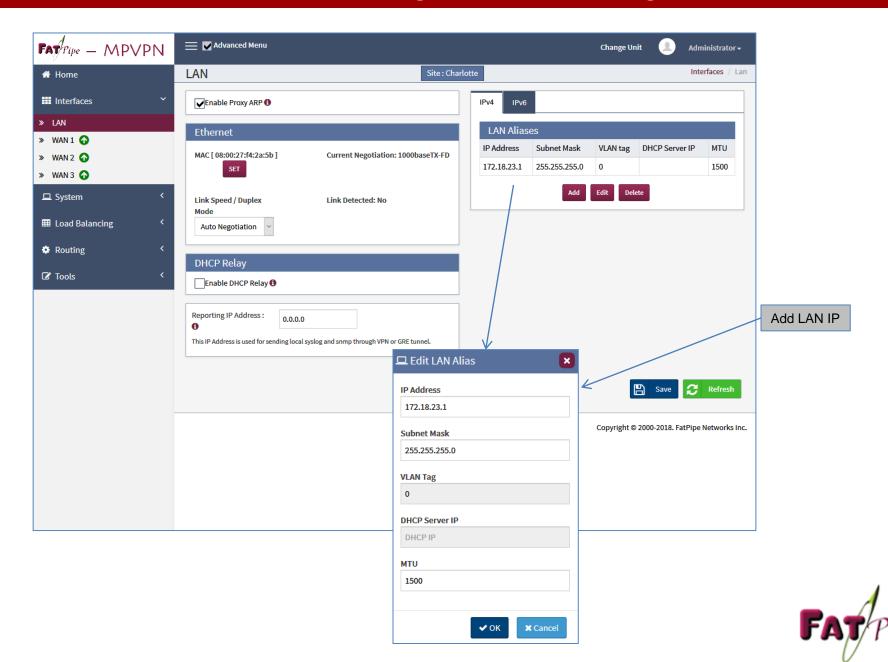
Branch Configuration

- 1) Configure LAN IP
- 2) Configure WAN IP
- 3) Configure Orchestrator Information in Auto Configuration Page
- 4) Choose the modules that need to be auto configured.

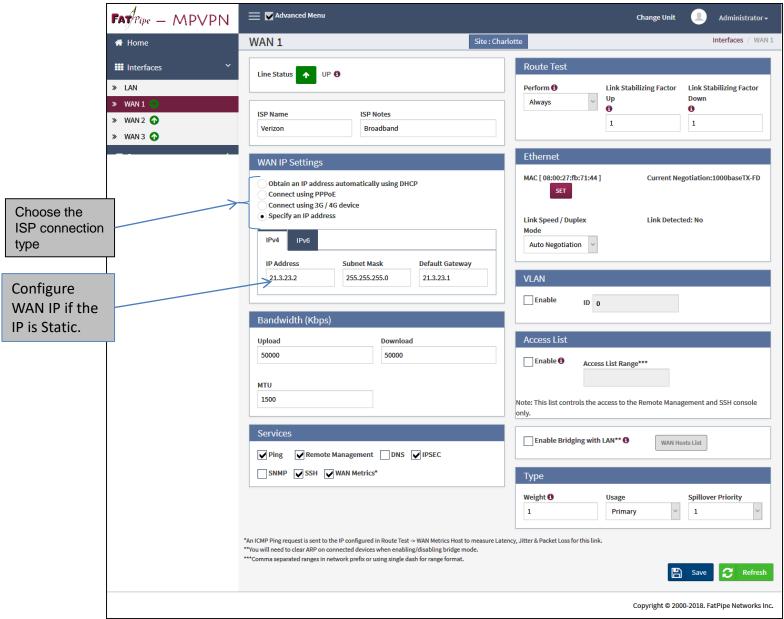
Note: You can add only One Key Per Orchestrator



Branch Configuration – LAN Page

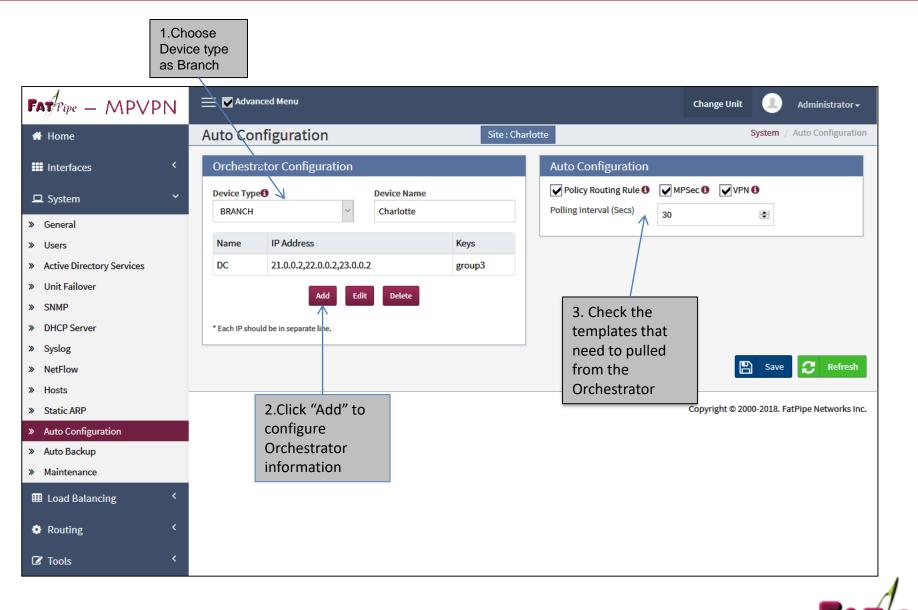


Branch Configuration – WAN Page

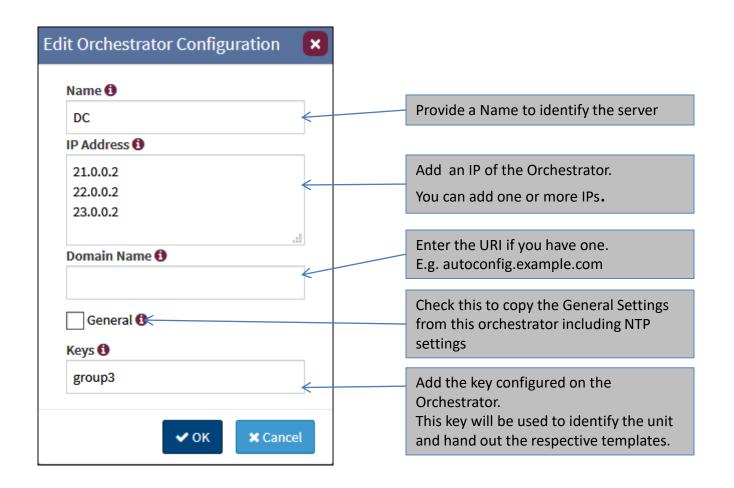




Branch - Auto Configuration Page



Branch – Add Orchestrator Configuration



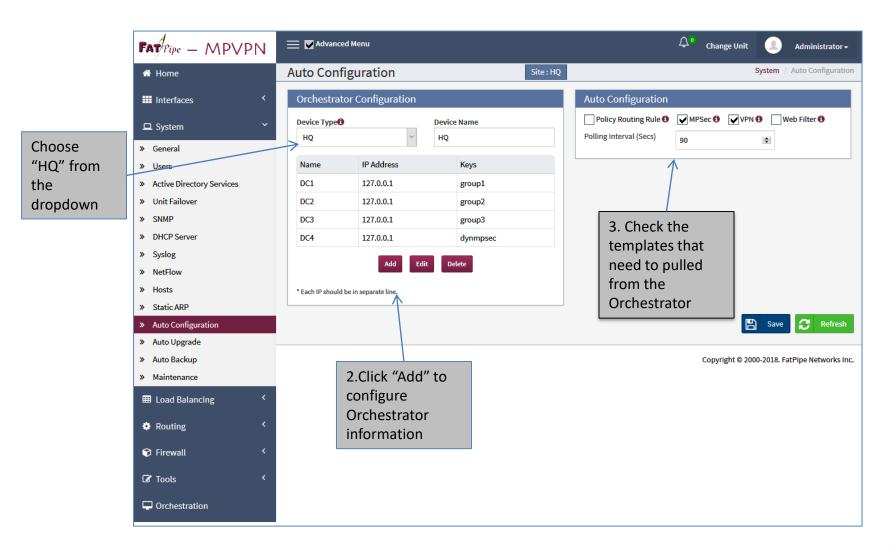


HQ Configuration

- 1) Configure LAN IP
- 2) Configure WAN IP
- 3) Configure Orchestrator Information in Auto Configuration Page
- 4) Choose HQ as the Device Type
- 5) Choose the modules that need to be auto configured.

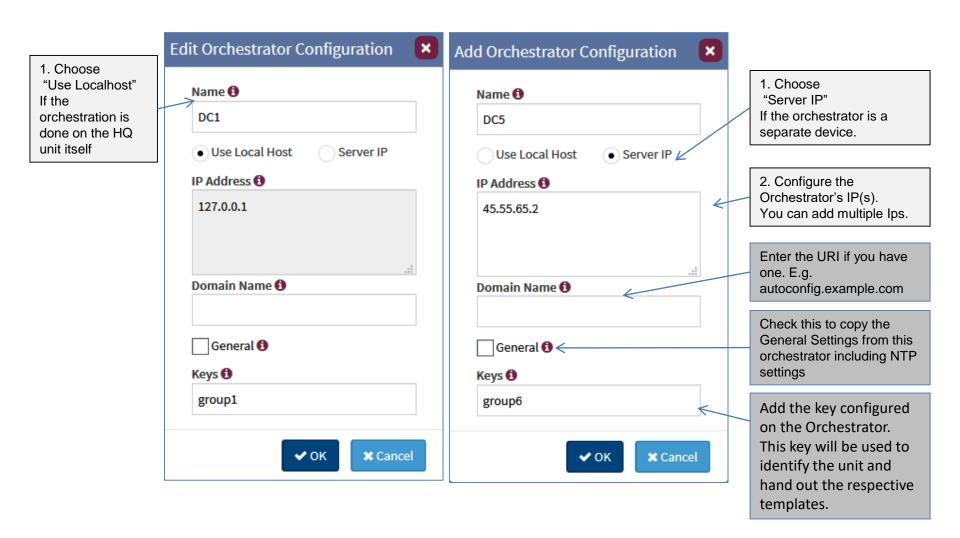
Note: You can configure more than one key per orchestrator to facilitate the HQ/DC unit to talk to multiple Groups.

HQ Device Configuration – Auto Configuration Page





HQ Device Configuration – Add Orchestrator Configuration



Thank You

