BODi rS™

More Bandwidth. More Reliability. More Survivability

Intelligent Load Balancing: Low Latency Balance

Application Note

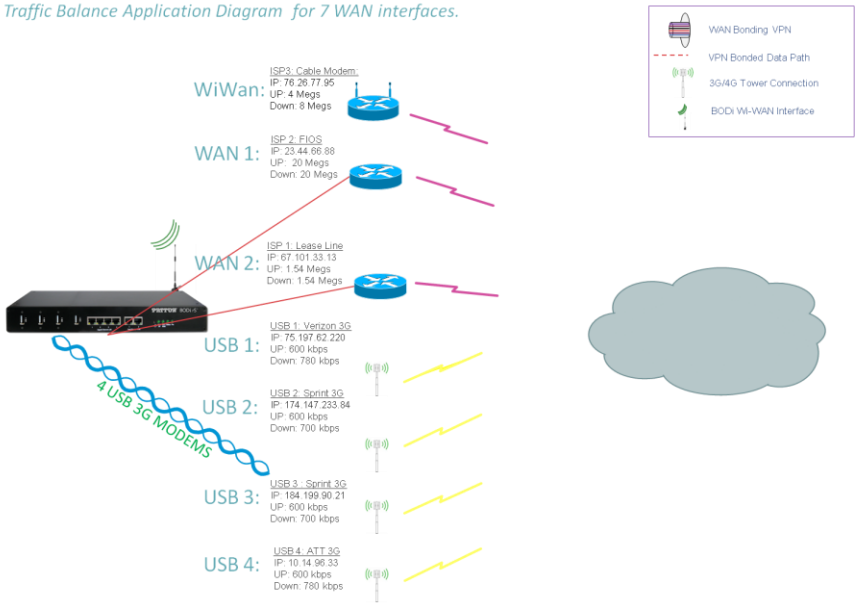
Understanding Outbound Balance Routing

- The BODi delivers a simple, cost effective way to manage Multi WAN network environments through intelligent Load Balancing Algorithms and advanced VPN bonding technology. The BODi delivers in box solutions to help migrate away from expensive lease line WAN providers in favor of less expensive WAN deliveries, such as cable providers, fiber, and dsl providers, while providing or maintaining business or mission critical reliability and survive-ability to your network. This presentation will focus on pre-configured WAN Balancing Algorithms and how to easily setup and configure your BODi rS for your network needs.

Load sharing across multiple WAN connections

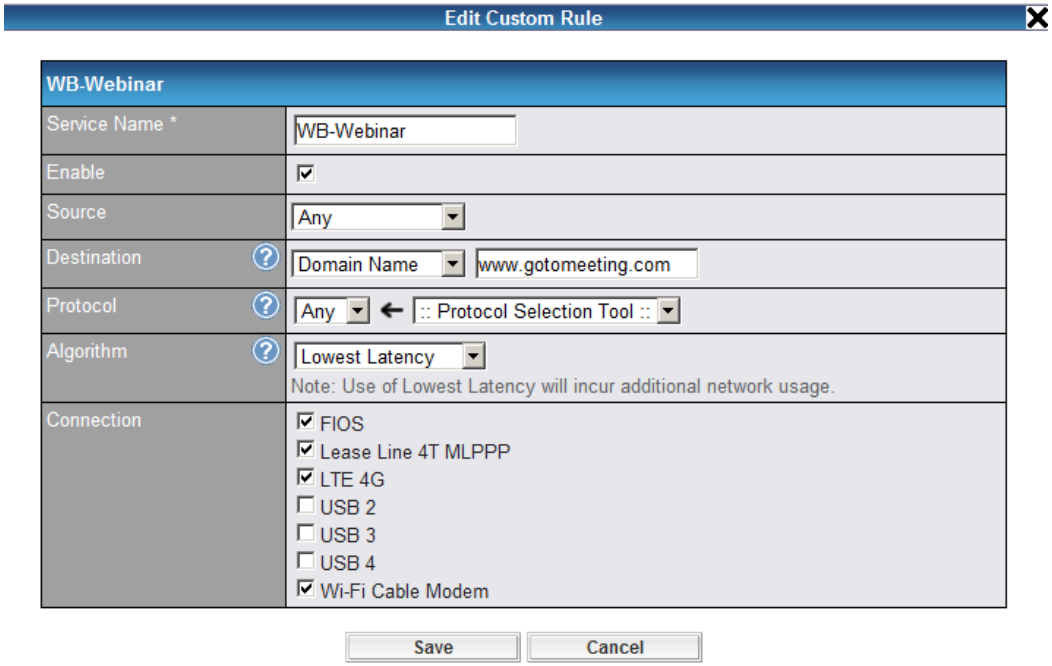
- **Balance up to 7 WAN interfaces using preconfigured balancing algorithms**
  - **Weighted Balance**: Assign more traffic to a faster links or less traffic to a connection with a costly bandwidth caps.
  - **Priority:** Route traffic to your preferred link as long as it's available.
  - **Overflow Balance:** Prevent traffic flow from slowing down when the connection runs out of available bandwidth.
  - **Least Used:** Help you choose the better connection with more free bandwidth.
  - **Enforced:** Restrict outbound traffic to a particular connection.
  - **Lowest Latency:** Give you the fastest response time when using applications like online gaming.
  - **Persistence:** Eliminate session termination issue for HTTPS, E-banking, and other secure websites.

Traffic Balance Application Diagram for 7 WAN interfaces.



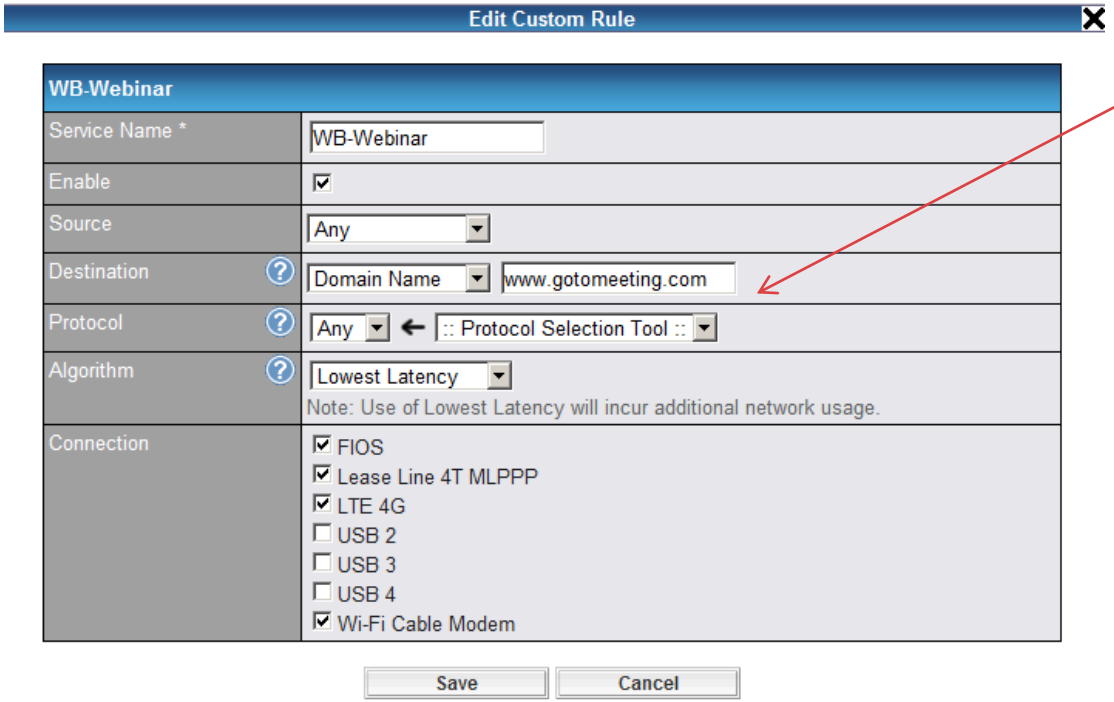
WAN Optimization: Let's Explore Lowest Latency WAN Balance

- Configure Lowest Latency Algorithm
  - Outbound traffic matching this rule will routed through a healthy WAN connection
  - Route by Source and Destination IP, Network, Protocol, Port
  - Latency checking packets will be performed on all enabled WAN interfaces
  - Routes traffic to the WAN link with the best response time



Lowest Latency Balance configuration window

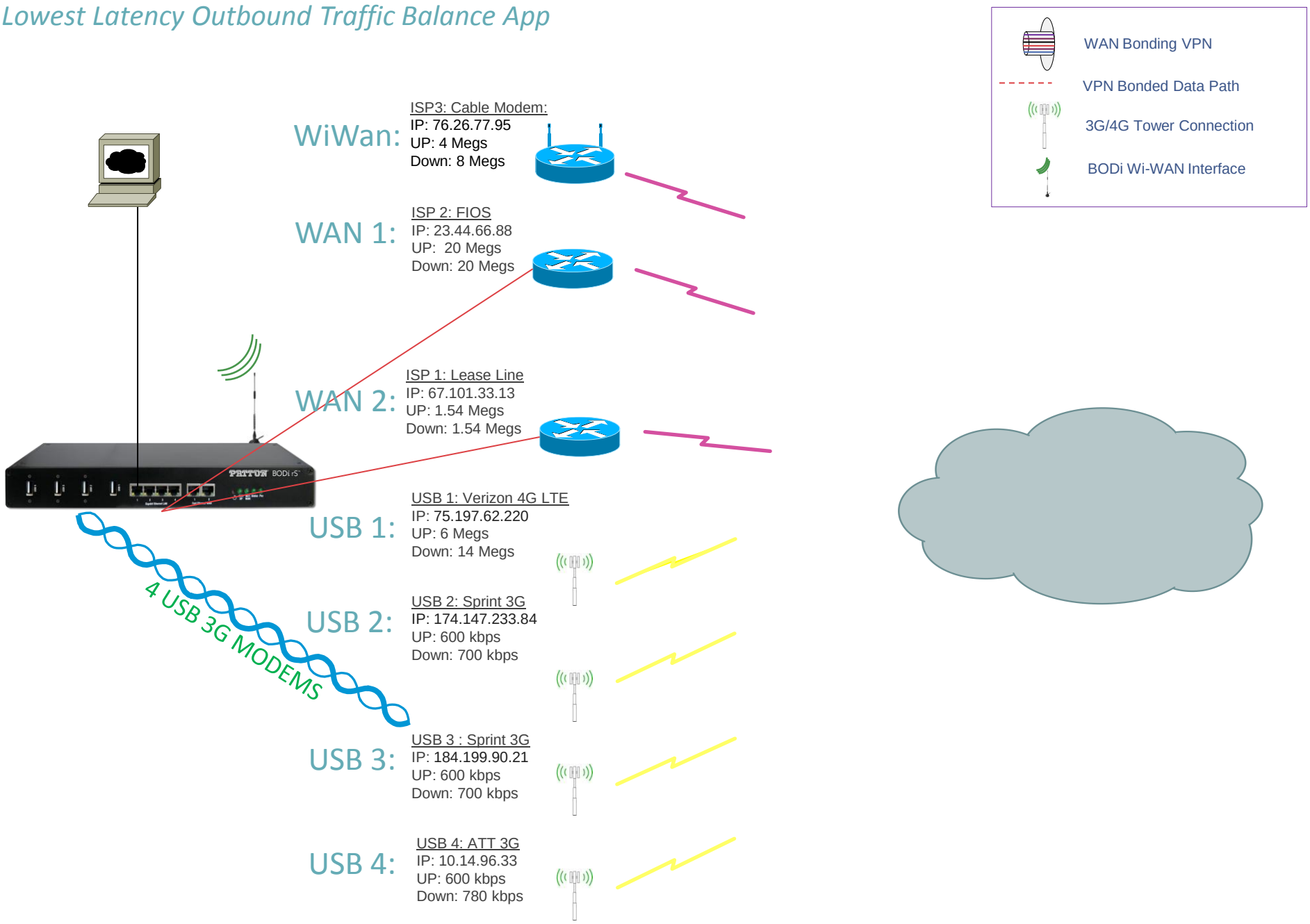
Destination Domain Address



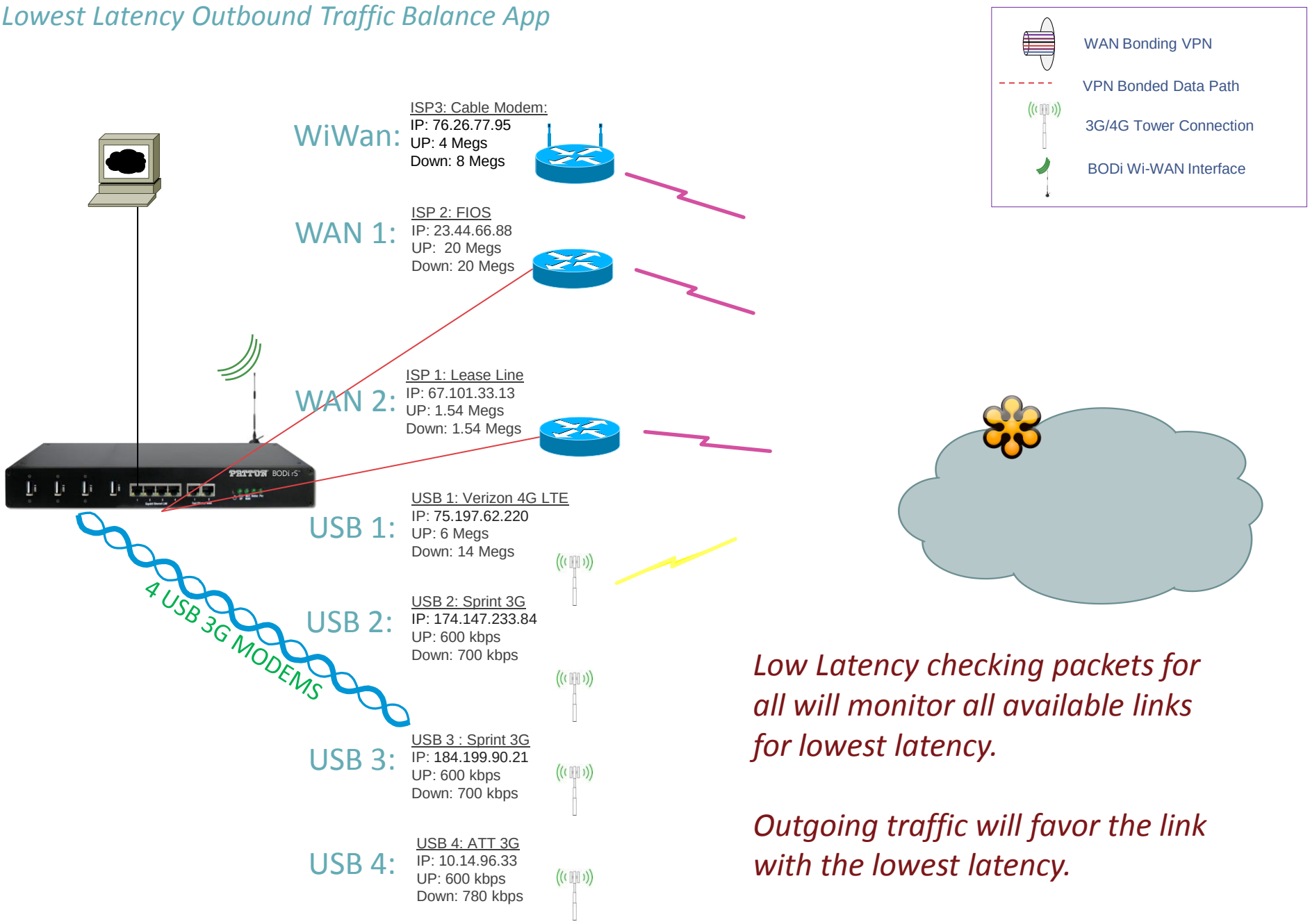
Lowest Latency Traffic GoToMeeting:

In this application we want to all audio and visual presentation outbound traffic to be routed out the fastest enabled links. Traffic destined for Domain Name: *www.gotomeeting.com*

Lowest Latency Outbound Traffic Balance App



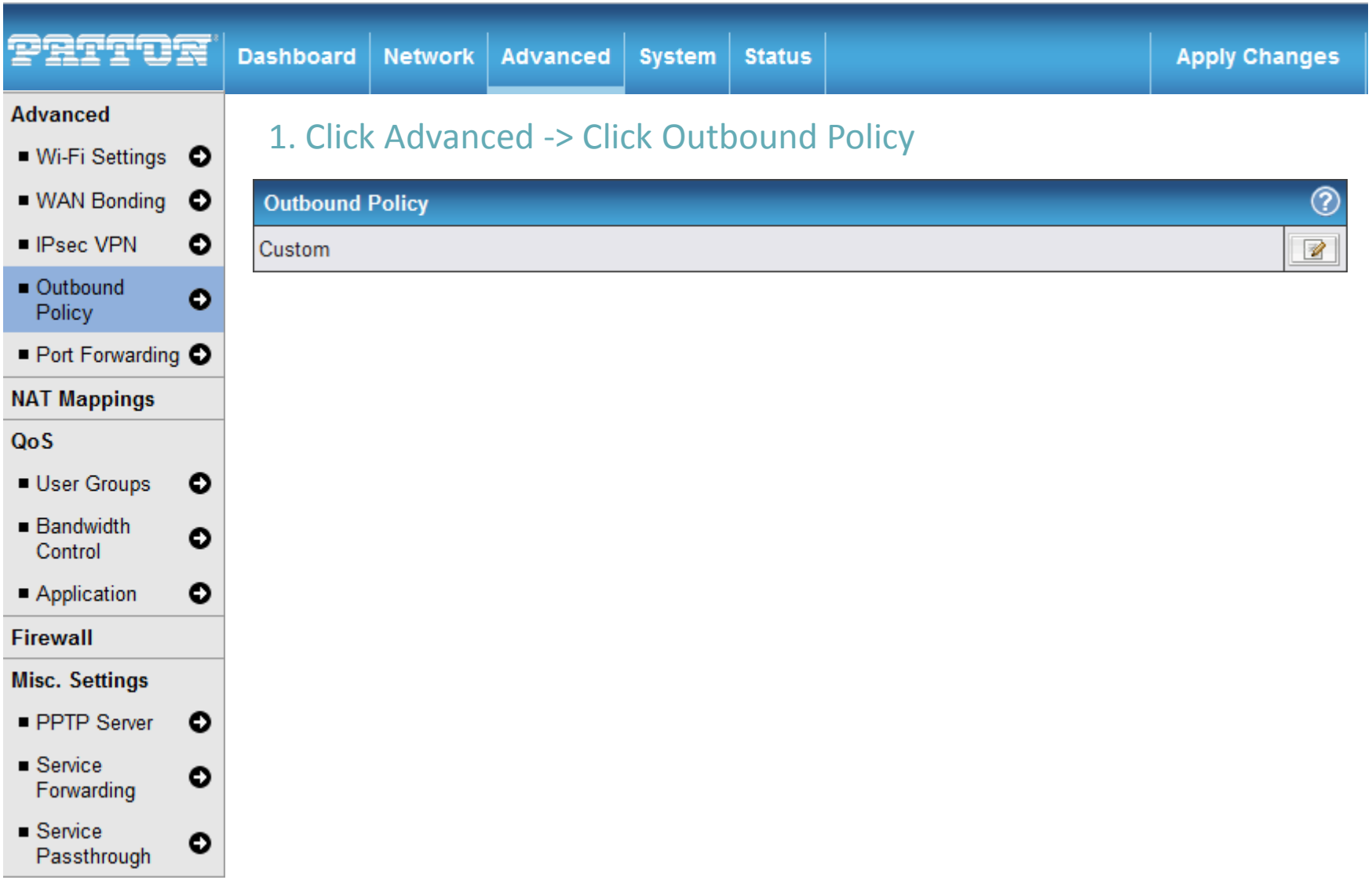
Lowest Latency Outbound Traffic Balance App



Low Latency checking packets for all will monitor all available links for lowest latency.

Outgoing traffic will favor the link with the lowest latency.

Step-by-Step: Configuration for Low Latency Balance Policy



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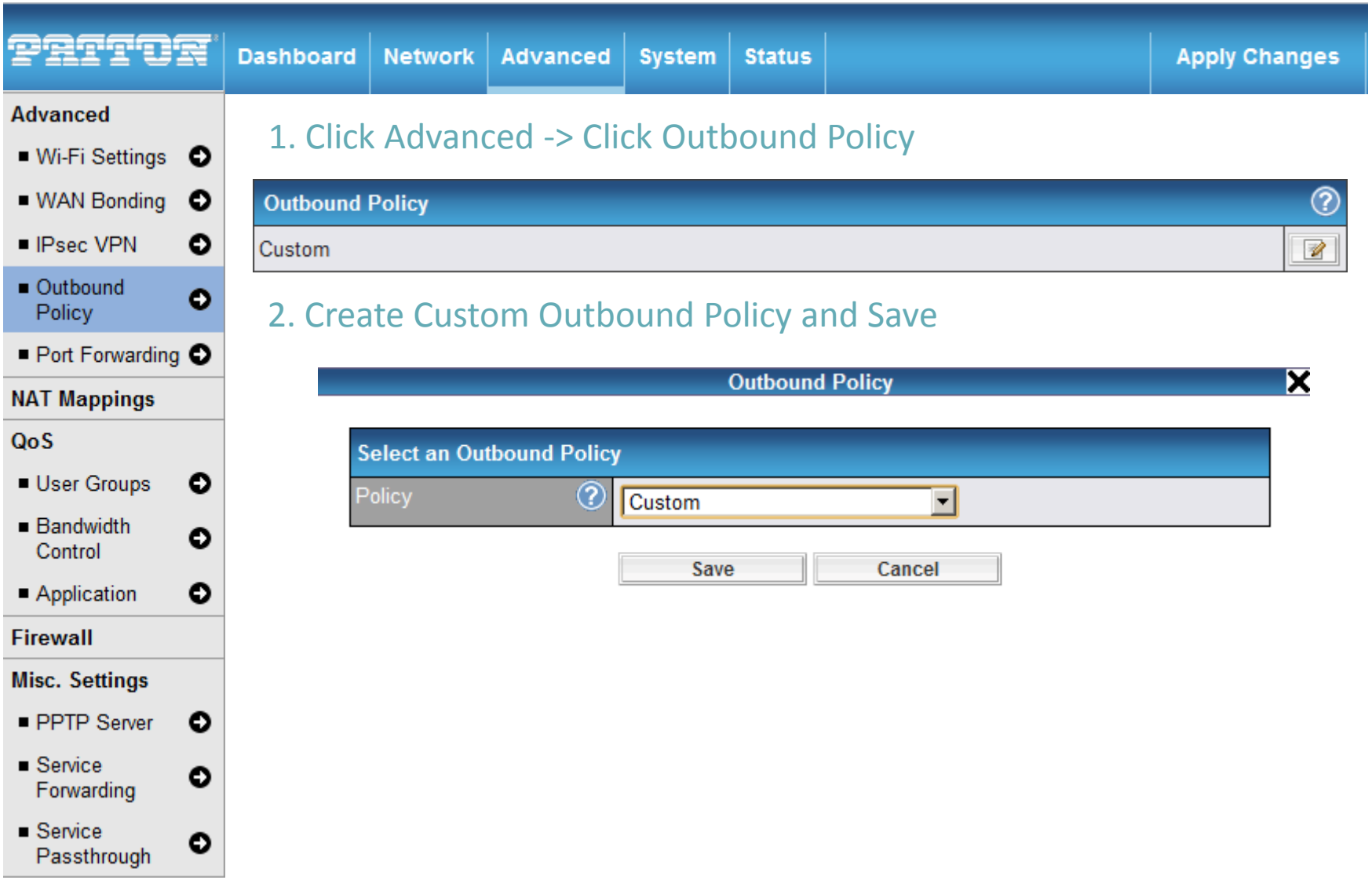

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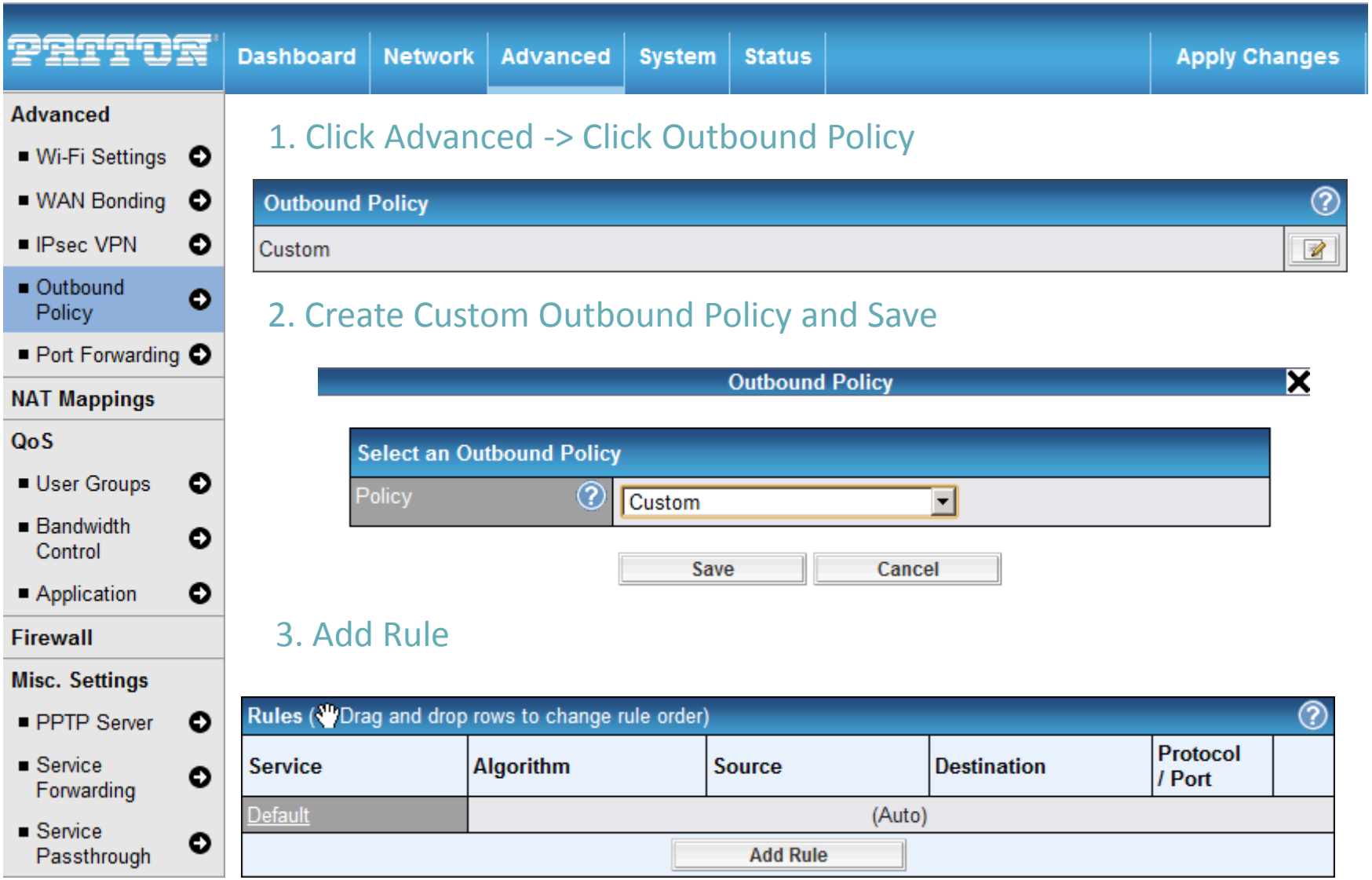

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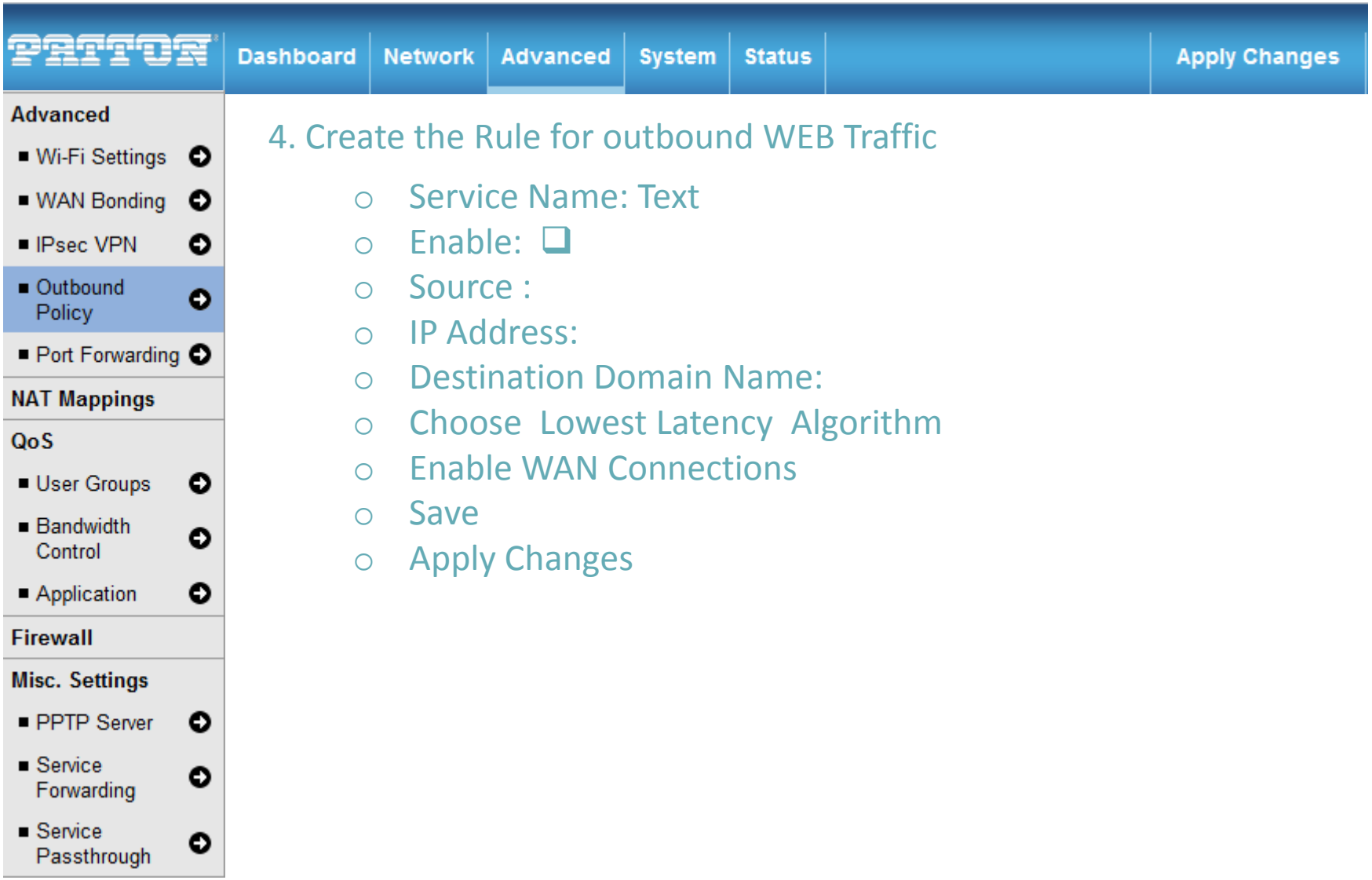

4. Create the Rule for outbound WEB Traffic
   - Service Name: Text
   - Enable: ❑
   - Source :
   - IP Address:
   - Destination Domain Name:
   - Choose Lowest Latency Algorithm
   - Enable WAN Connections
   - Save
   - Apply Changes

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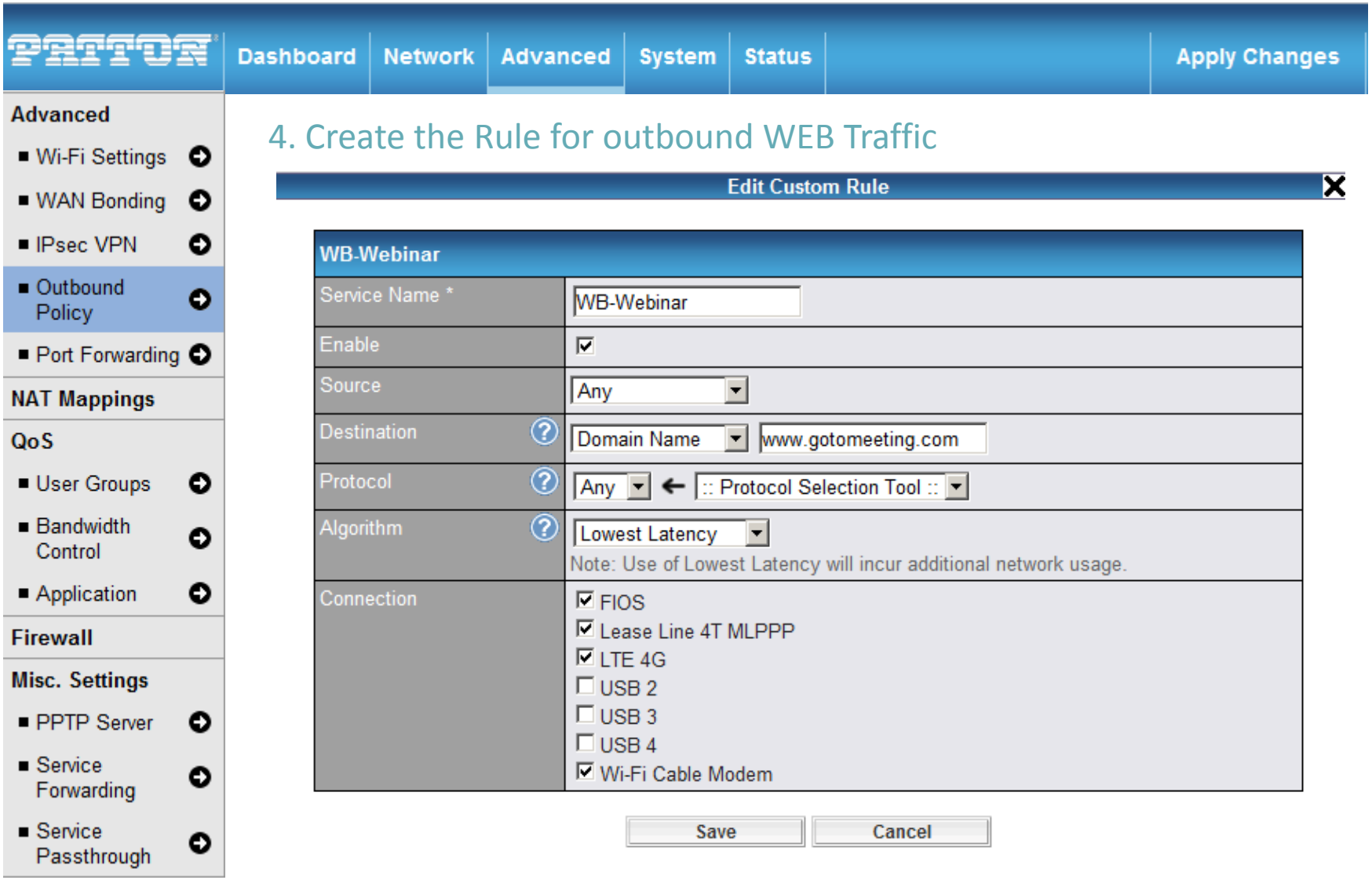

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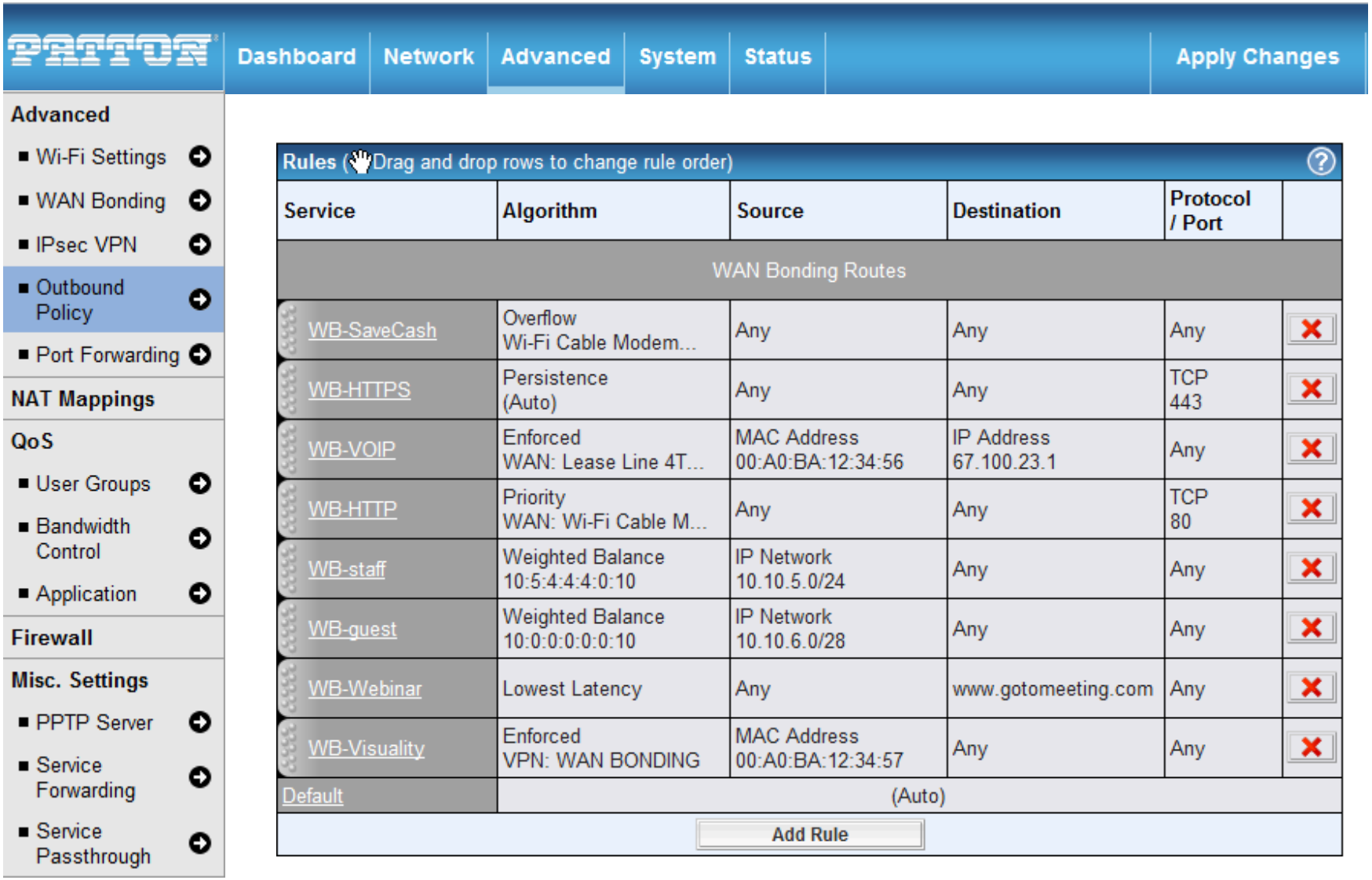

FOR FURTHER INFORMATION

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