BODi rS™

More Bandwidth. More Reliability. More Survivability

Intelligent Load Balancing: Priority Balance

Application Note

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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.

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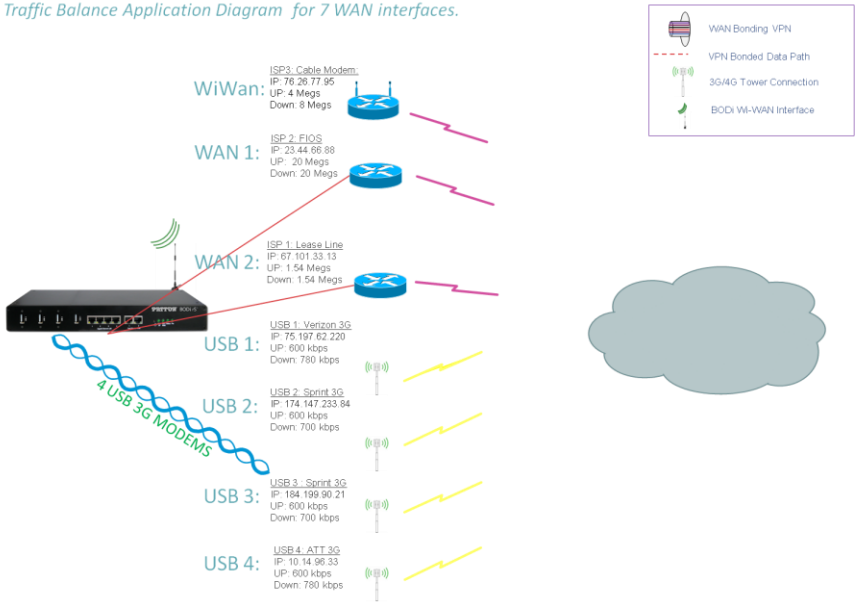
Load sharing across multiple WAN connections

- **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.



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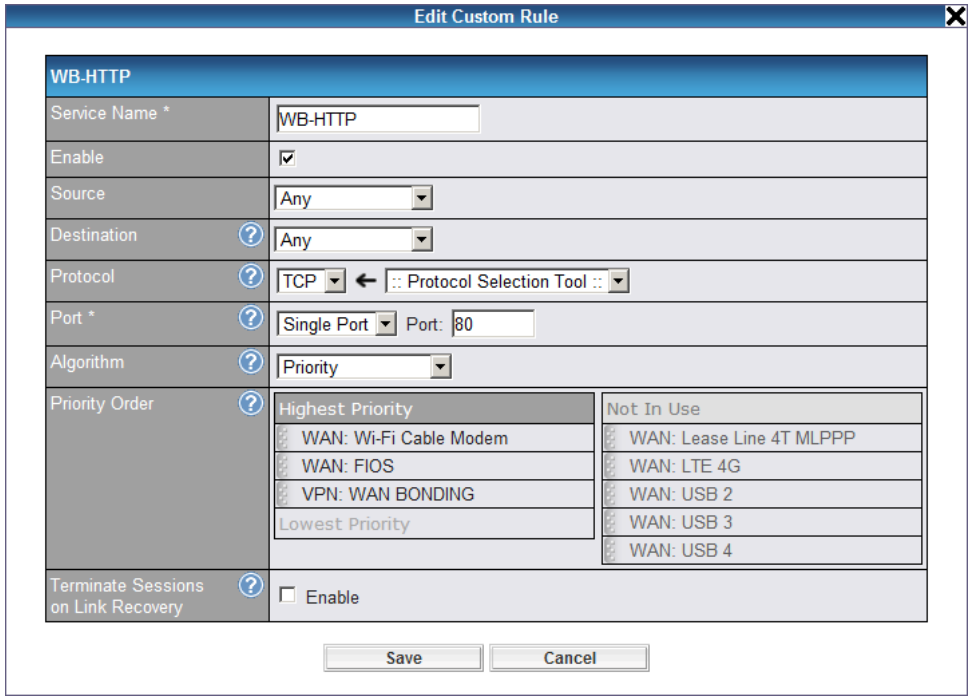
WAN Optimization: Let's Explore Priority WAN Balance

- Configure WAN interfaces according priority
  - Highest Priority Healthy Link will be used to route outgoing traffic
  - Route by Source and Destination IP, Network, Protocol, Port
  - Health check maintains outgoing traffic decisions
  - Use WAN BONDING as an 8th WAN interface



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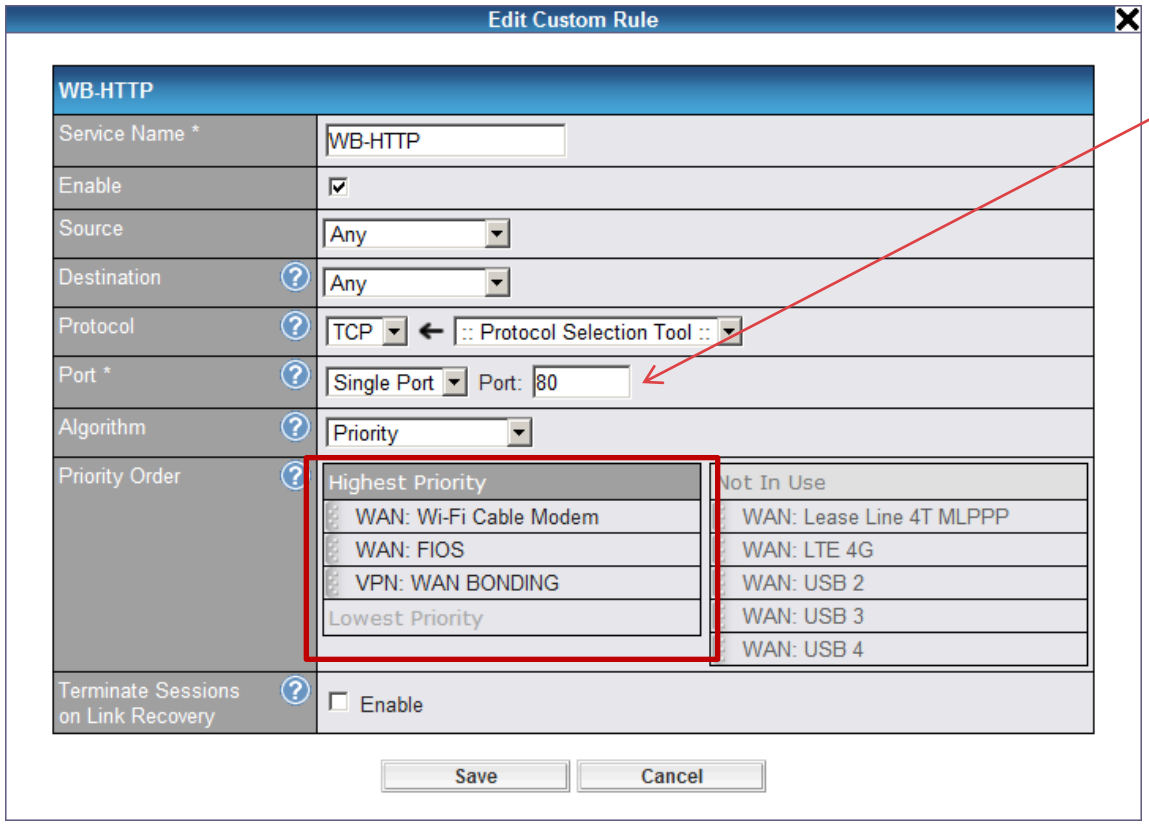
Priority Balance configuration window

I want to configure Priority WAN traffic
For all WEB traffic on port 80



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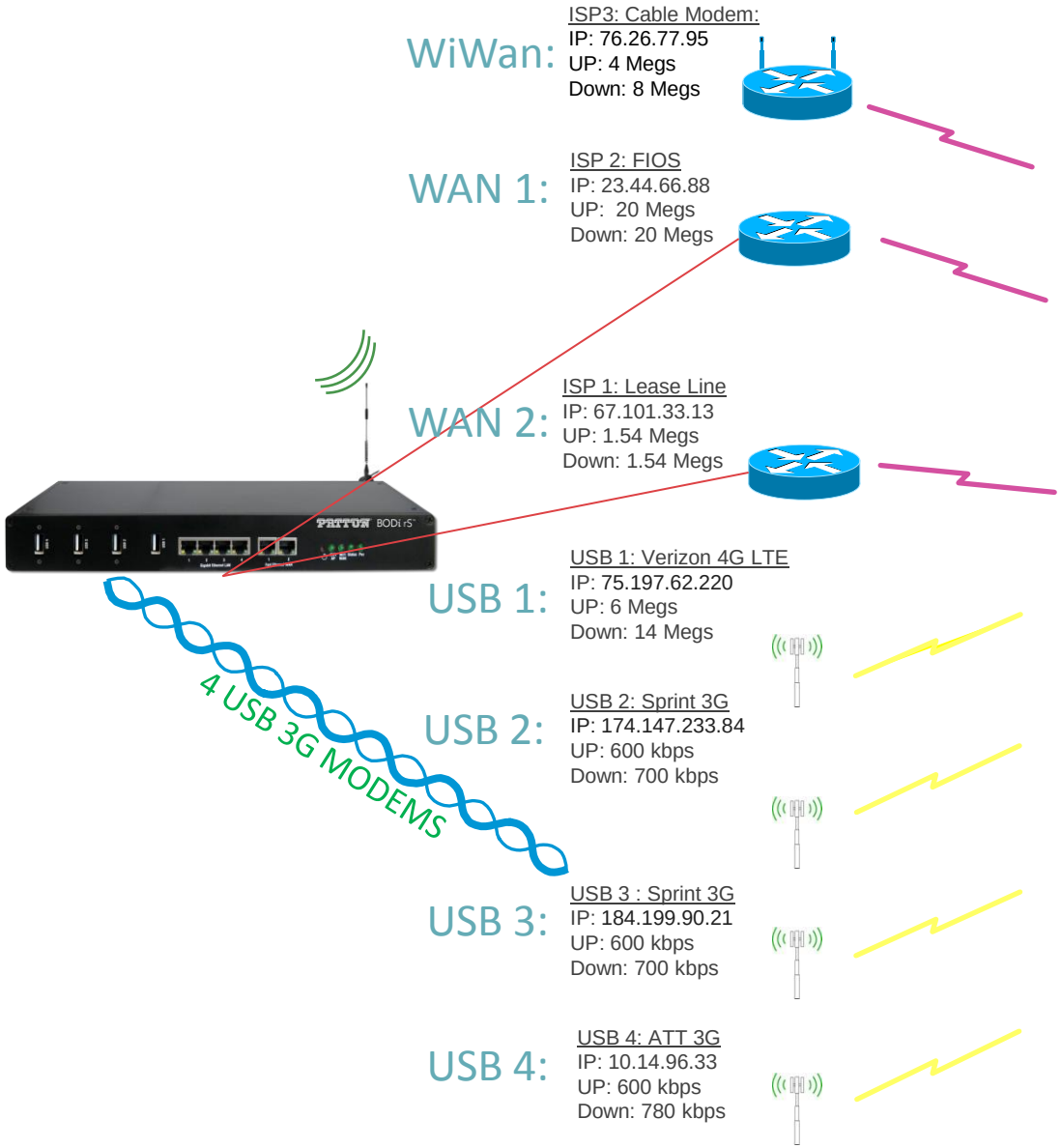
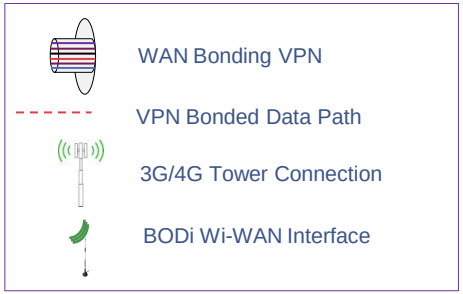
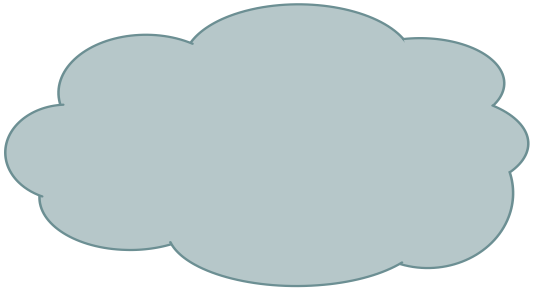
Priority Outbound Traffic Balance App







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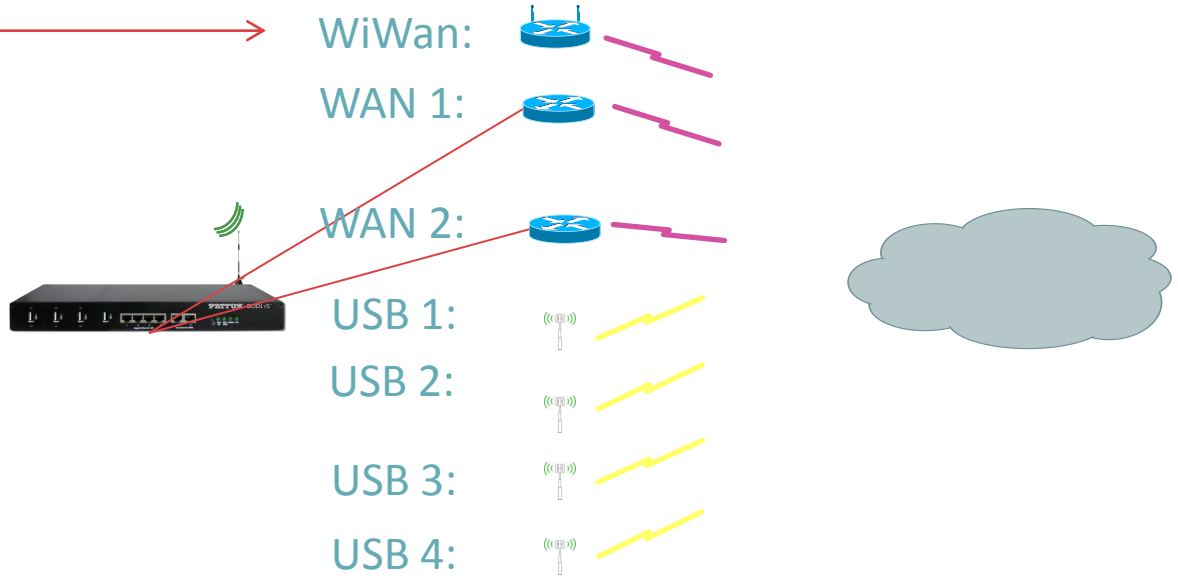
Priority Outbound Traffic Balance App

<u>ISP 3: Cable Modem</u>
IP: 76.26.77.95
UP: 4 Megs
Down: 8 Megs



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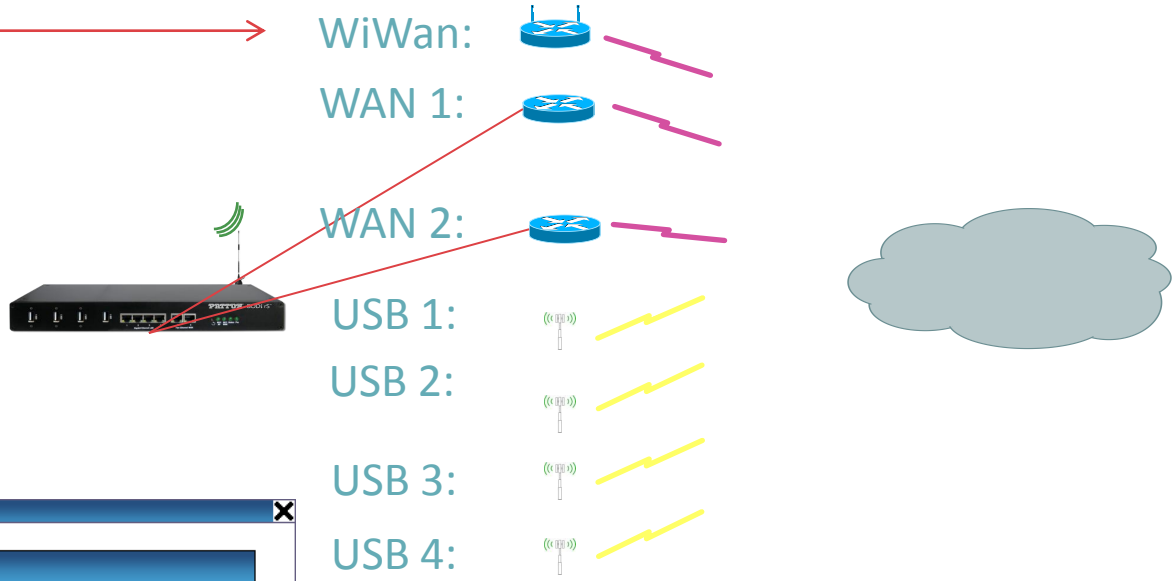

Edit Custom Rule

WB-HTTP	
Service Name *	WB-HTTP
Enable	☑
Source	Any
Destination	Any
Protocol	TCP ← :: Protocol Selection Tool ::
Port *	Single Port Port: 80
Algorithm	Priority
Priority Order	Highest Priority: WAN: Wi-Fi Cable Modem; WAN: Lease Line 4T MLPPP; VPN: WAN BONDING; Lowest Priority Not In Use: WAN: FIOS; WAN: LTE 4G; WAN: USB 2; WAN: USB 3; WAN: USB 4
Terminate Sessions on Link Recovery	☐ Enable

Save Cancel

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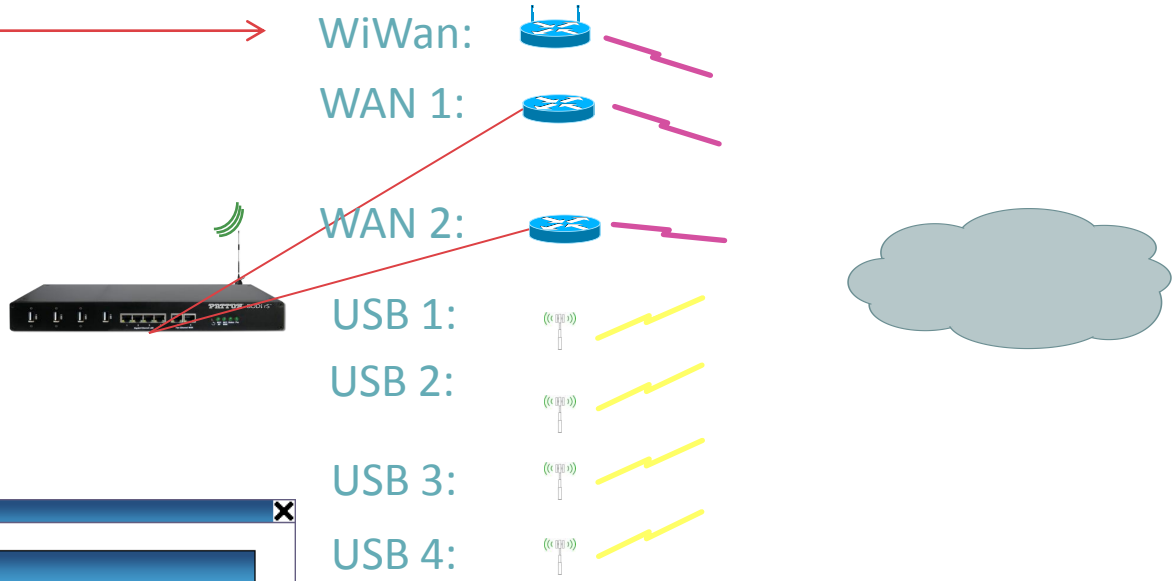

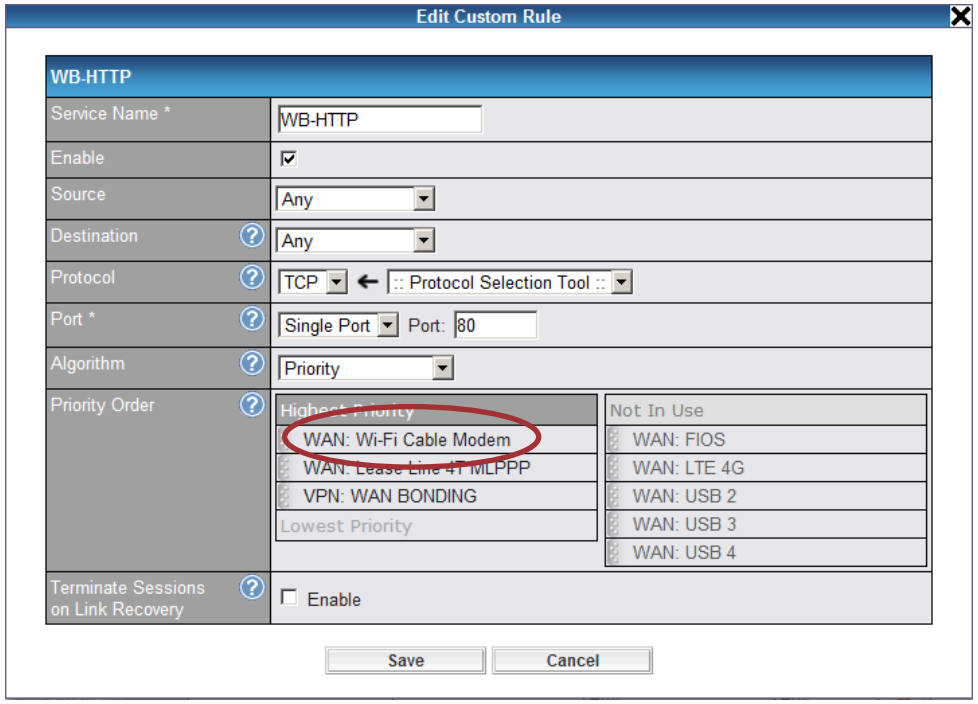

Send outbound web surfing traffic out the cable modem first priority.

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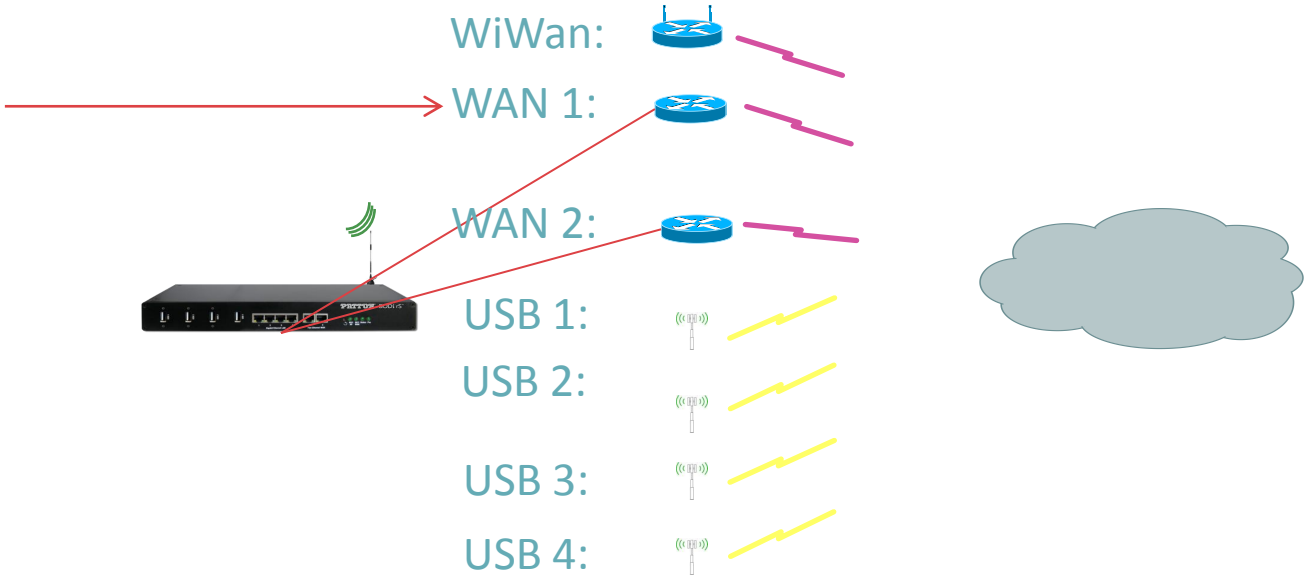
Priority Outbound Traffic Balance App

<u>ISP 2: FIOS</u>
IP: 23.44.66.88
UP: 20 Megs
Down: 20 Megs



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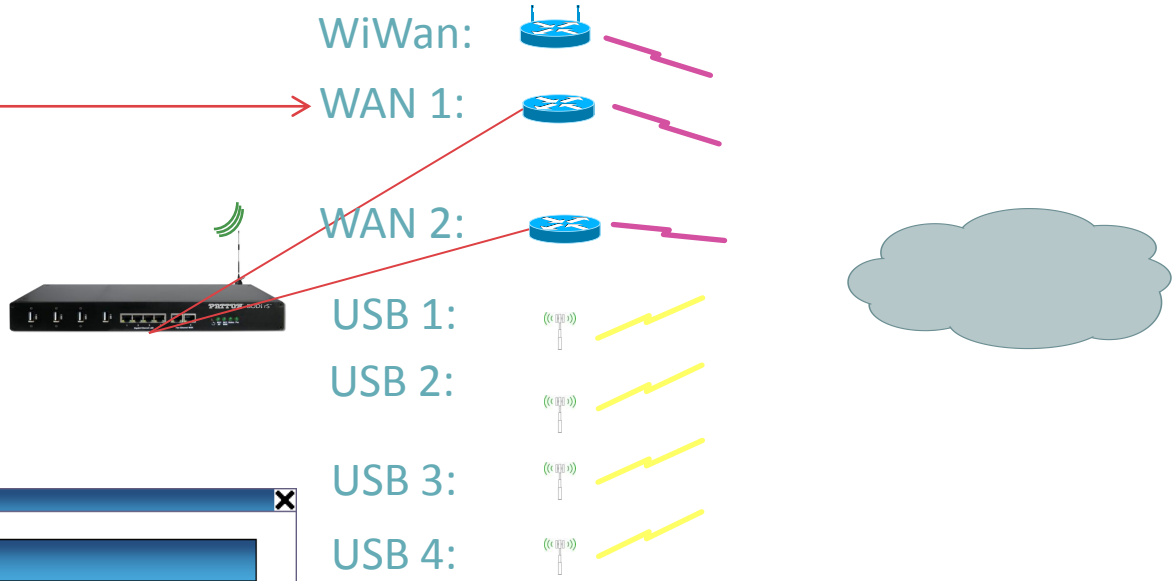

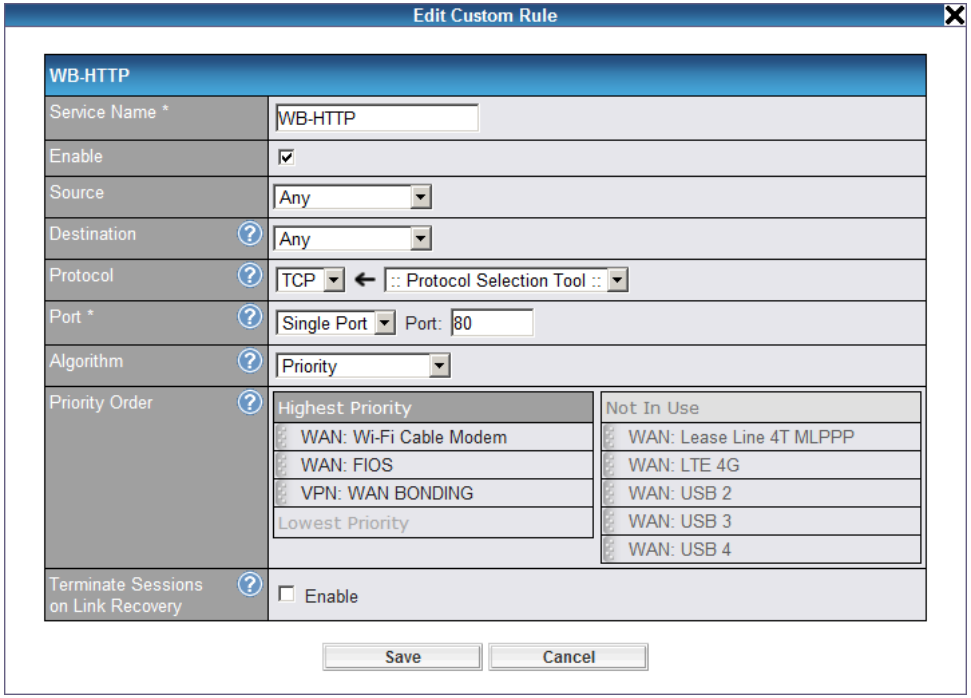

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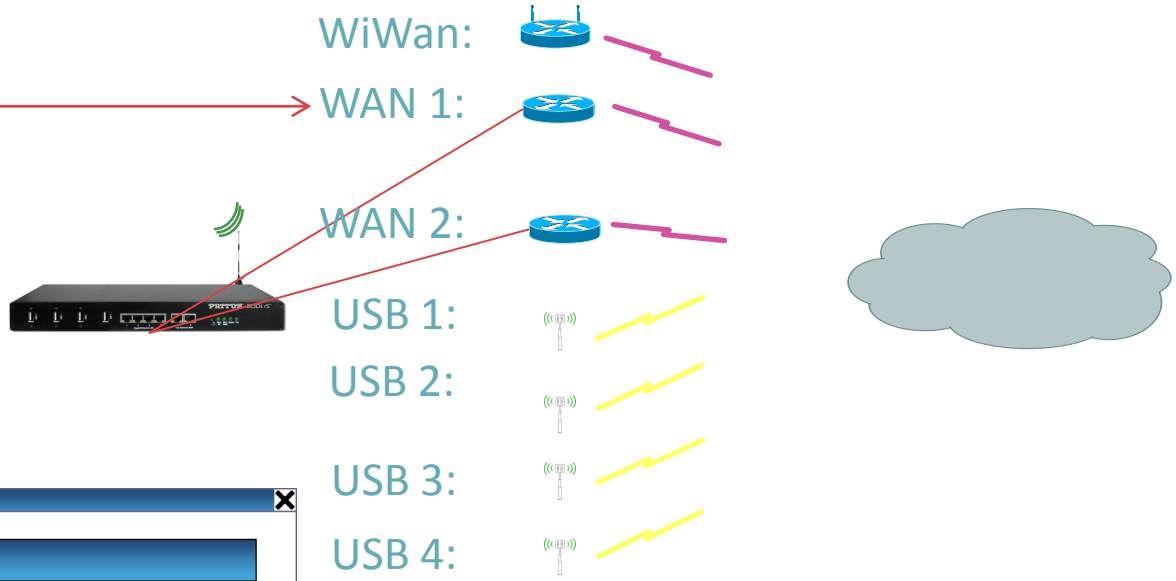

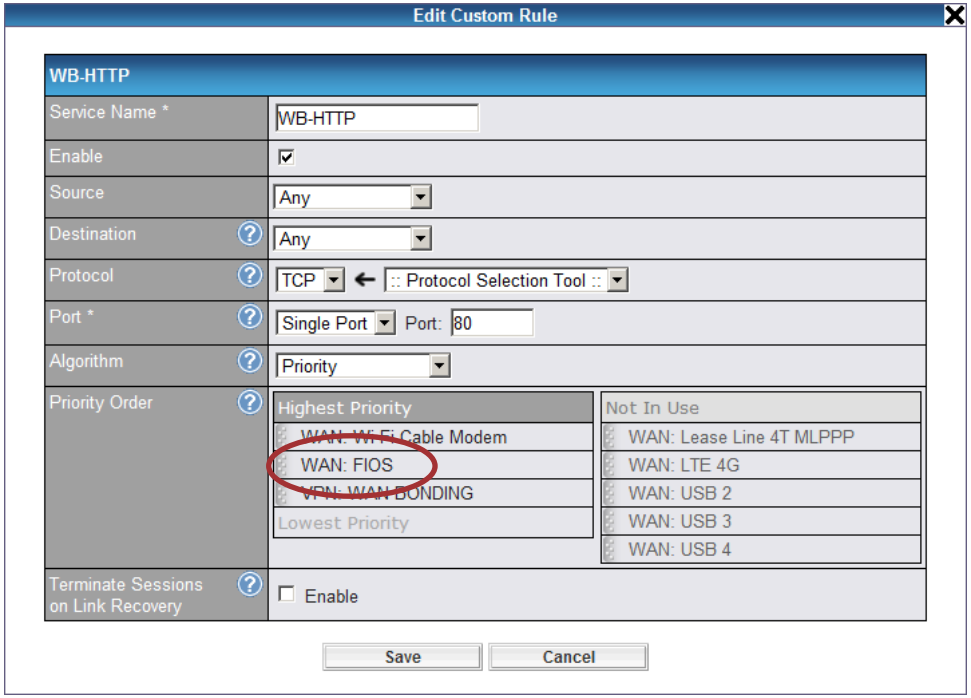

Send outbound web surfing traffic out the FIOS modem second priority.

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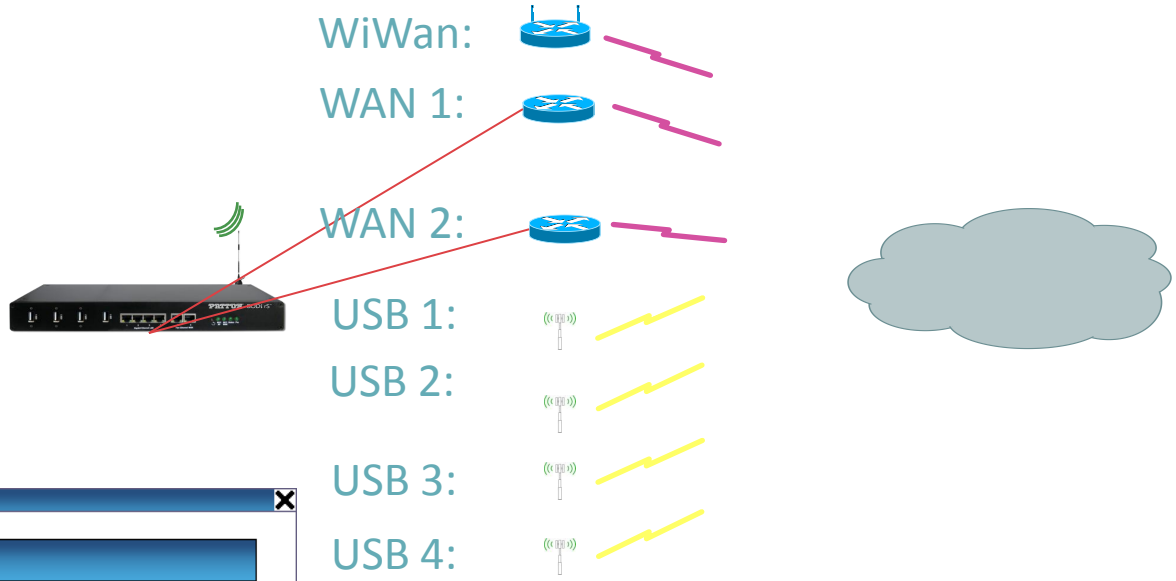
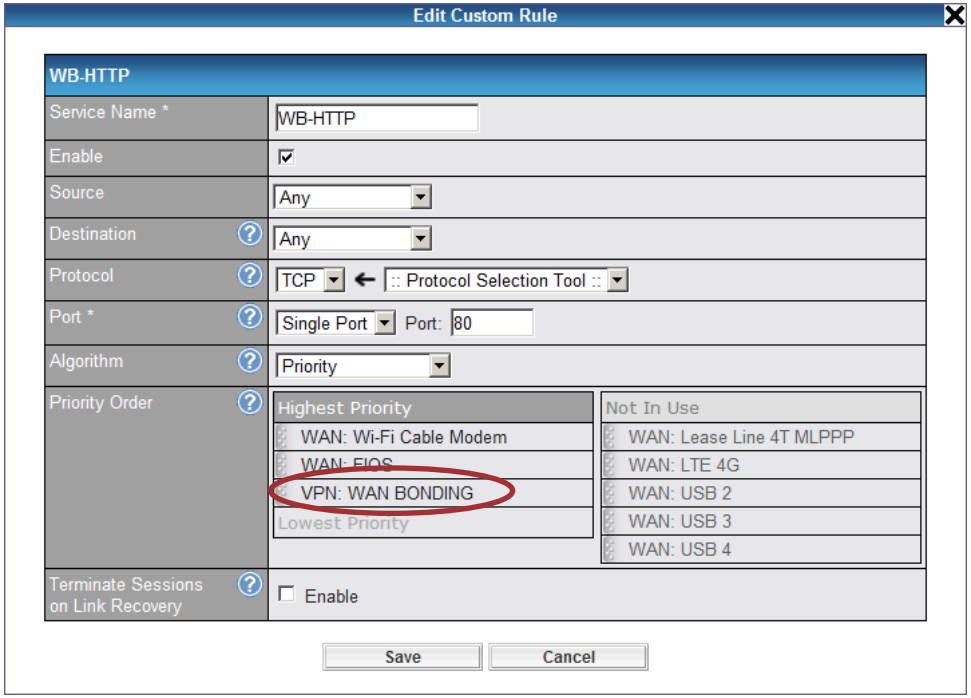
Priority Outbound Traffic Balance App





Be sure to check out our short presentation on WAN bonding online.

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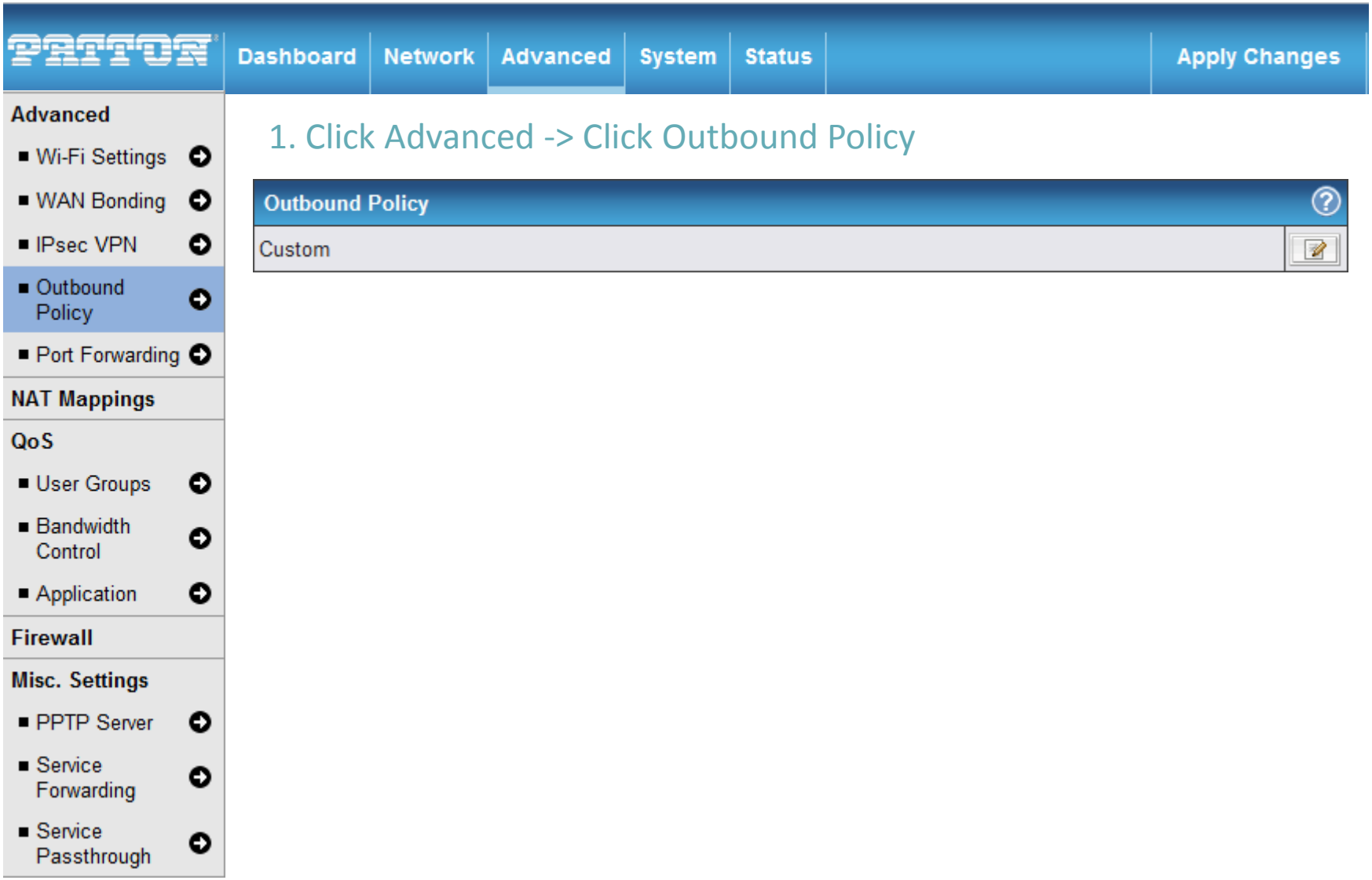
Step-by-Step: Configuration for Priority Balance Policy



1. Click Advanced -> Click Outbound Policy

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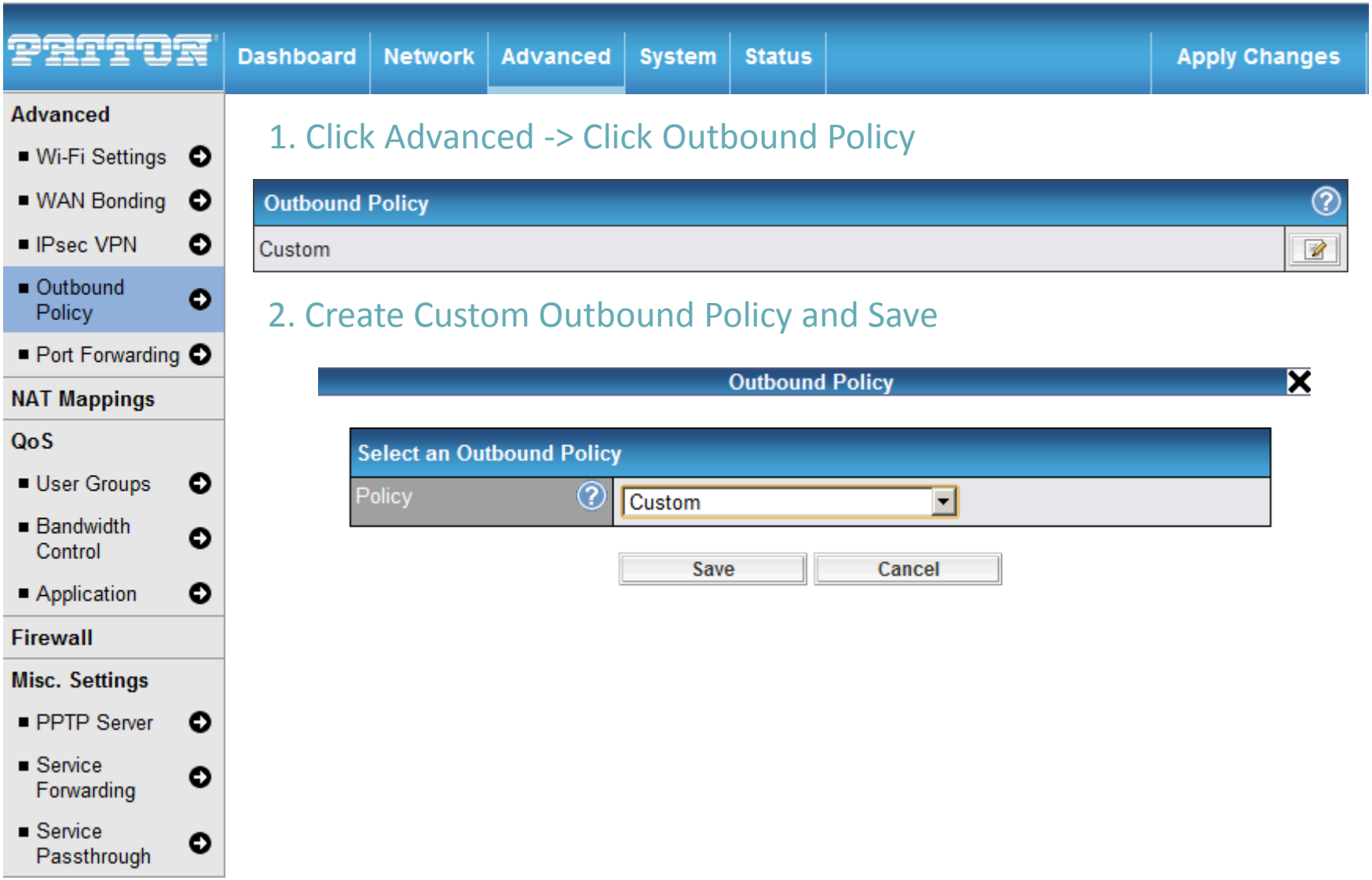

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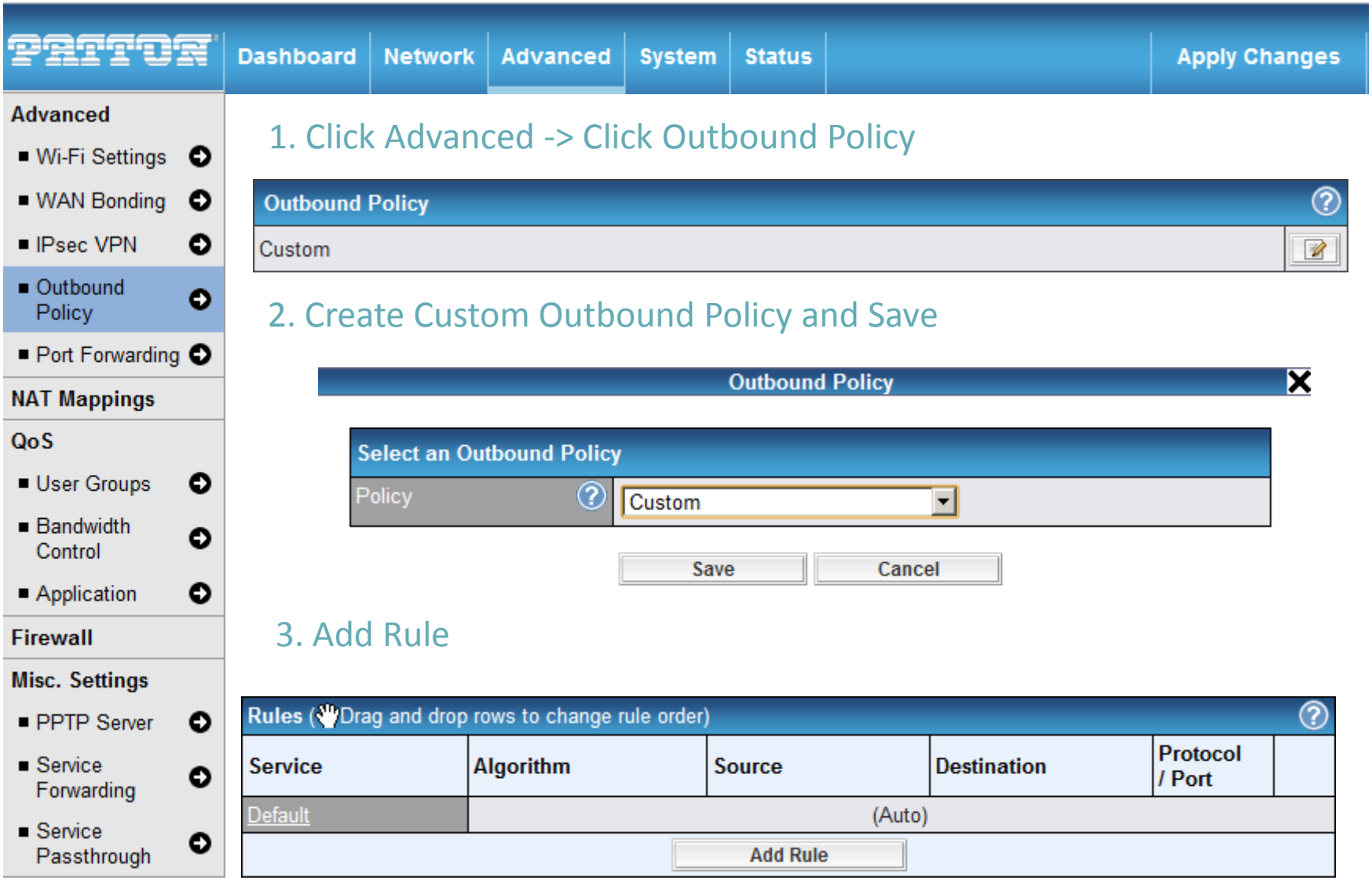

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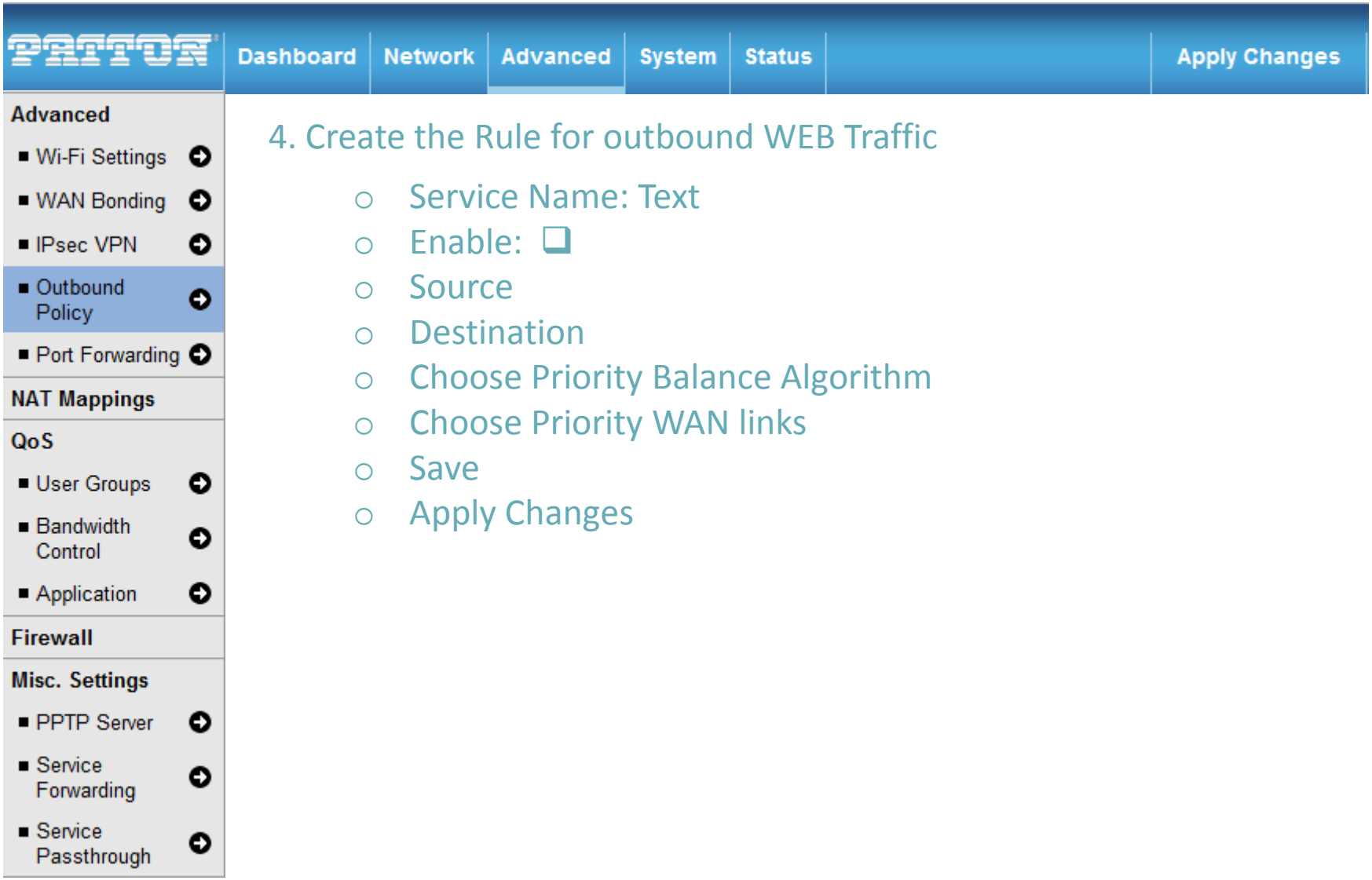

4. Create the Rule for outbound WEB Traffic
   - Service Name: Text
   - Enable: ❑
   - Source
   - Destination
   - Choose Priority Balance Algorithm
   - Choose Priority WAN links
   - Save
   - Apply Changes

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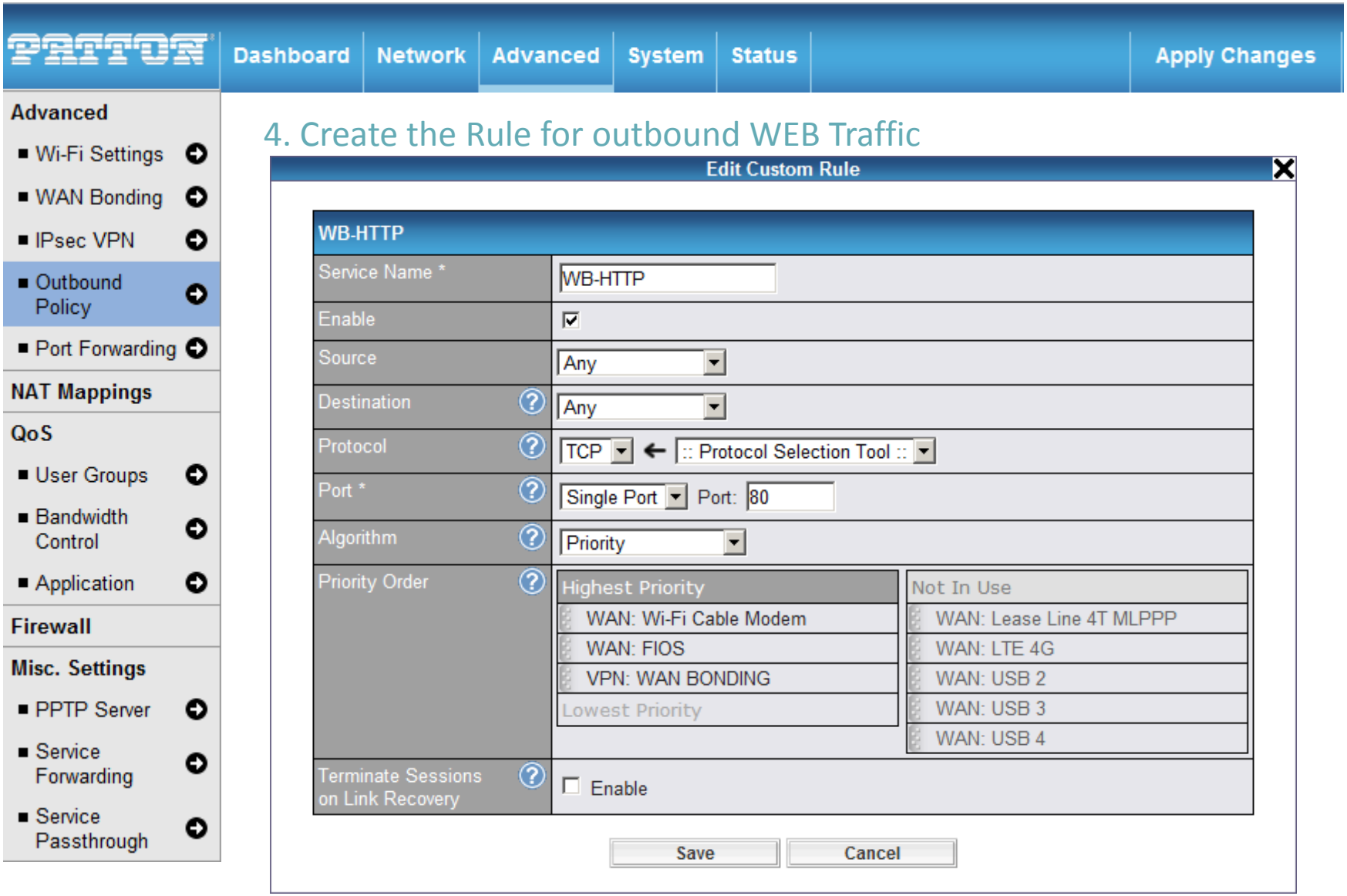

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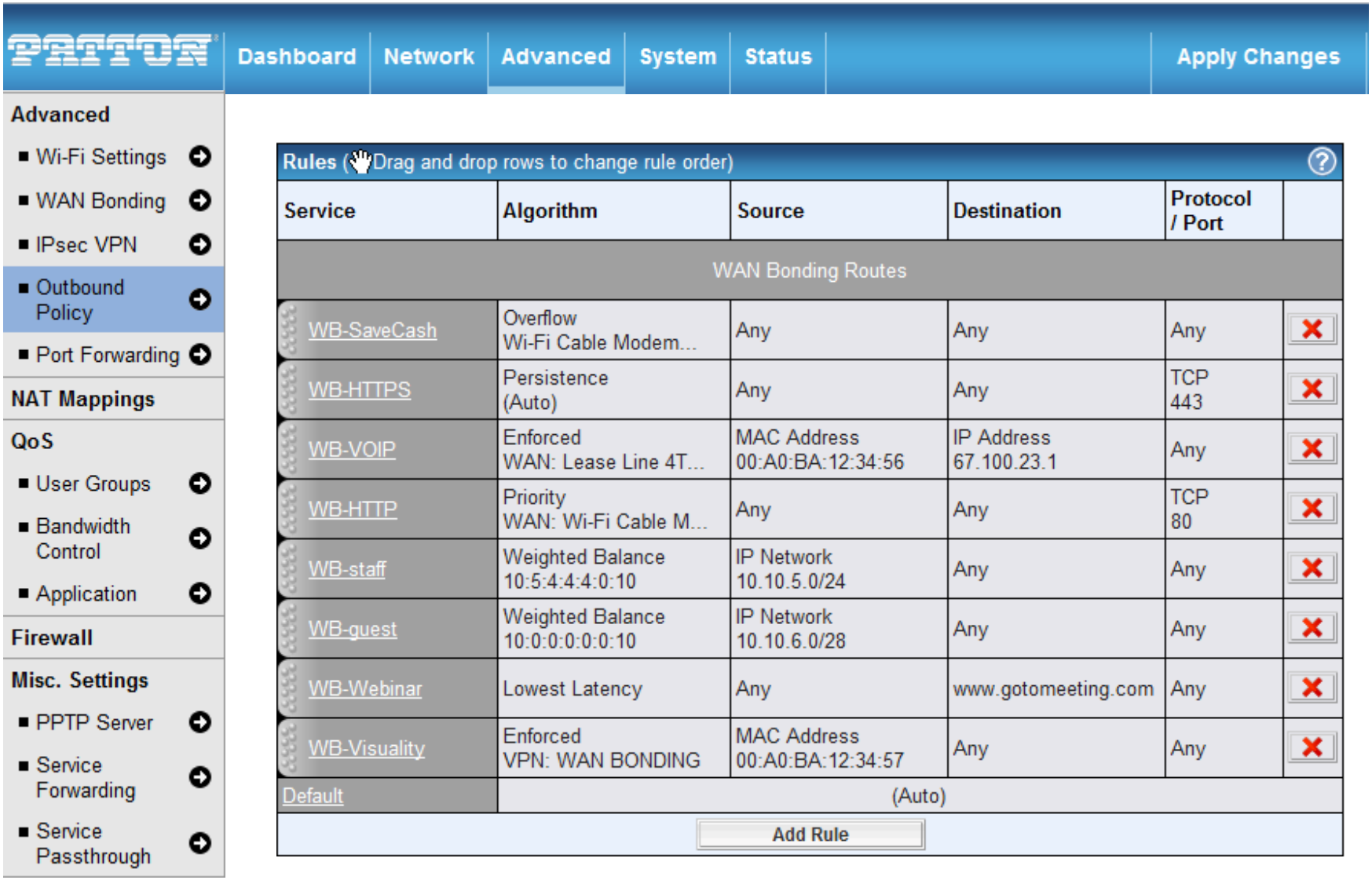

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FOR FURTHER INFORMATION

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