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Firewall Issue Isolation Guide for Vodafone Corporate Customers

Purpose

To provide customers with a step-by-step guide to perform initial (Level 1) checks in the event of Internet or application connectivity issues, before escalating to Vodafone Fiji NOC.

Pre-Requisites

- Basic understanding of network devices (modem, firewall, switch)
- Access to FortiGate GUI (Limited or full access, if applicable)
- Access to local network cabinet (if safe and permitted)
- Contact for Vodafone Fiji NOC

STEP 1 – Is there power on the equipment?

- Check if modem/ONT, firewall, and switch have lights.
- **IF the lights are ON → go to Step 2**
- **IF any device has NO LIGHTS → Action:**
 - Ensure power cable is connected
 - Try another power outlet
 - Check UPS or power injector
 - Power cycle the device if allowed
 - If the device still has no power → Escalate to Vodafone Fiji NOC

STEP 2 – Is the WAN link light ON?

- Check the WAN port on the firewall.
- **IF WAN light is ON → go to Step 3**
- **IF WAN light is OFF → Action:**
 - Check if POE cable is connected
 - Check if POE light is On
 - Reset the WAN cable
 - Try another port on the modem/ONT (if available)
 - Replace the Ethernet cable
 - If the light is still OFF: This indicates an upstream issue → Escalate to Vodafone Fiji NOC

STEP 3 – Can you access the Internet?

- From any computer, try to open www.google.com
- **IF the page loads → go to Step 5**
- **IF it DOES NOT load → go to Step 4**

STEP 4 – Can you ping 8.8.8.8?

- **On a PC:** ping 8.8.8.8
- **IF ping works (replies received) → DNS issue**
- **Action:**



- Try to ping your DNS
- If DNS still fails → escalate to IT team or Vodafone Fiji NOC.
- **IF ping DOES NOT work → WAN or firewall issue**
- **Action:**
 - Ping the Router Internet Gateway (e.g., 27.x.x.x)
 - **If ping is successful → go to Step 6**
 - **If ping still unsuccessful → go to Step 5**

STEP 5 – Can you ping the firewall LAN IP?

- ping Firewall Gateway eg 192.168.x.1
- **IF YES → firewall is reachable → go to Step 6**
- **IF NO → Customer LAN Network issue**
- **Action:**
 - Check if LAN light is On in Firewall and Switch
 - if LAN light is not On in Firewall and Switch then replace the patch cable
 - Try another LAN port on Firewall if its configured
 - Restart PC if only one user is affected.
 - Restart Switch
- If LAN still fails → IT team needs to check internal LAN network.

STEP 6 – Is the VPN/Cloud service affected?

- **Question:** Are internal applications (ERP/POS/VPN/Oracle Cloud) down but the Internet works?
- **IF YES → proceed to Step 7**
- **IF NO → issue is the Internet only (skip Steps 7–8)**

STEP 7 – Check VPN/Cloud Tunnel Status

(IT STAFF)

- Log into FortiGate:
- VPN → IPsec Tunnels
- IF tunnel is UP (green) → go to Step 8
- IF tunnel is DOWN → **Action:**
 - Bring Up Tunnel from Firewall (Click the **Down** option in Status and the tunnel tab will open. Right Click the Tunnel and select Bring Up Entire Tunnel)
 - If tunnel cannot be restored → Escalate to Vodafone Fiji NOC.

STEP 8 – Are applications slow or timing out?

- If slowness or dropouts happen:
- **Action:**
 - Check bandwidth monitor in firewall
 - Identify high usage
 - Reduce heavy downloads/streaming



- Check if issue occurs at peak hours
- IF high bandwidth usage is detected
- Apply **QoS** or discuss with Vodafone for bandwidth upgrade.

STEP 9 – Is the issue intermittent?

Question:

- Does the Internet drop at certain times?
- Does Wi-Fi drop but LAN works?
- Does everything drop including phones?
- IF only Wi-Fi drops
 - Wi-Fi issue (Access Point / Controller)
 - Resolve locally.
- IF only one PC affected → Local PC or LAN cable issue
 - Replace cable or port.
- IF entire site drops intermittently → Possible causes:
 - Radio interference (for wireless sites)
 - Faulty cable
 - Overloaded firewall
 - Power fluctuation
 - If repeated every hour/day → Escalate to Vodafone with timestamps.



WHEN TO CALL VODAFONE FIJI NOC IMMEDIATELY

Do not troubleshoot further if you see any of these:

- No WAN link light after completing above steps
- Complete loss of service and above steps did not work
- High packet loss and no congestion in link
- Latency above normal and no congestion in link
- VPN not connecting
- Modem/ONT overheating

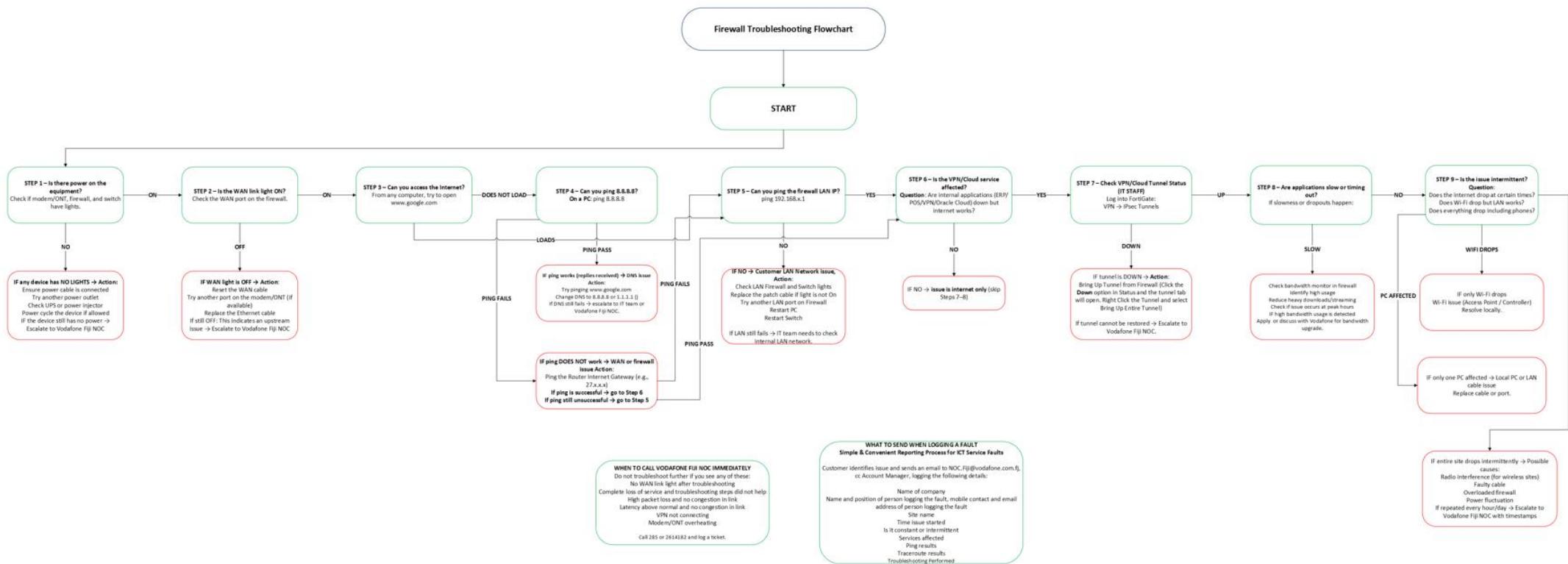
• Call 285 or 2614182 and log a ticket.

WHAT TO SEND WHEN LOGGING A FAULT

Simple & Convenient Reporting Process for ICT Service Faults

- Customer identifies issue and sends an email to NOC.Fiji@vodafone.com.fj, cc **Account Manager**, logging the following details:
 - Name of company
 - Name and position of person logging the fault, mobile contact and email address of person logging the fault
 - Site name
 - Time issue started
 - Is it constant or intermittent?
 - Services affected
 - Ping results
 - Traceroute results
 - Troubleshooting steps performed
- Customer to follow through with a phone call to short code 285 or PSTN 2614182 / 8926405 (NOC) and NOC team will register trouble ticket on behalf of customer.
- Engineer on duty at Vodafone Fiji NOC will call customer and discuss the nature of fault, assign a priority level and provide timeframes within which this will be attended to (target restoration time). Updates will be either emailed or communicated through mobile call.
- Upon rectification and confirmation from the Customer, trouble ticket will be closed.







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