



Verizon Private Network Control and Secure your Information

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Date: 10/22/2014



Verizon's Private Network Connectivity

Verizon's Private Network provides a secure, wireless extension to customers' infrastructures





Verizon Private Network

- Verizon Wireless Private Network offers organizations a wireless extension to their IP networks, without compromising network management and control. With Private Network, companies can extend their corporate IP network to reach anywhere the Verizon Wireless network does.



CUSTOMER BENEFITS OF THE VZW PRIVATE NETWORK



Control

- Wireless device network access can be managed in a manner similar to other computing assets.
- The Dynamic Mobile Network Routing (DMNR) option advertises the wireless router's Local Area Network (LAN) for remote access and management of any connected device.
 - Note: VZW is the only provider offering DMNR.
- With data isolated from the public internet, inherent risks and unsolicited traffic are avoided.
- Only customer authorized subscribers may send and receive traffic.
- The customer has complete control over device access to the Internet and applications.



Easy to Deploy and Manage

- There is no need to deploy and manage complicated device configurations to establish network connectivity.
- It is available anywhere there is VZW coverage.
- The VZW Private Network infrastructure is completely scalable. As an existing Private Network, customer identifies new use cases, Smartphones, tablets, routers and other wireless devices can be quickly provisioned for access.



Flexible Connectivity Options

- There are multiple ways to connect to your network, including:
- Verizon Private IP
- Dedicated point-to-point circuits, such as T1
- VPN over Internet



Security

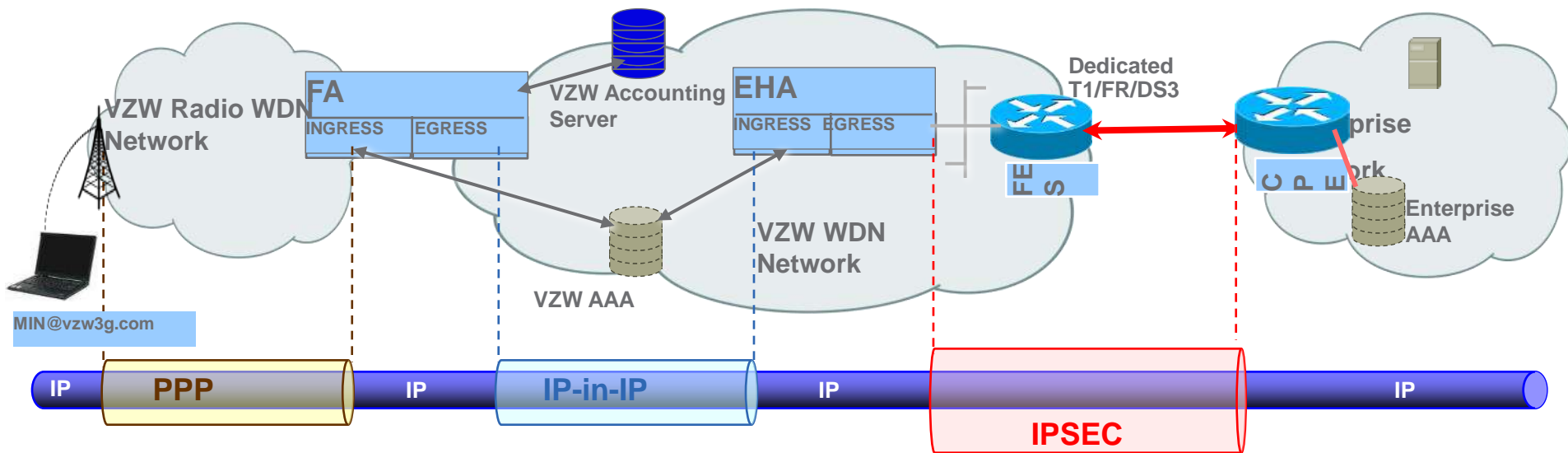


No unauthorized traffic can travel over your network, so you eliminate the risk of unsolicited traffic from external sources.



Enterprise Products – Mobile Private Network

MPN – Dedicated IP connection between the enterprise and WAN



- Isolates enterprise traffic from general subscribers
- Places command and control of data users within the enterprise domain
- Positions the enterprise to take advantage of enhanced services and future IMS-based features



M2M Management Center

A single, scalable and flexible system to manage M2M connectivity
with self-serve convenience

MANAGEMENT CENTER

VERIZON'S M2M MANAGEMENT CENTER



ROBUST FEATURES

- ↔ Interactive graphical dashboard
- ↔ Viewable provisioning and transaction histories and logs
- ↔ Customizable notification groups and alerts or triggers; reporting
- ↔ Remote device wake up and suspension
- ↔ Flexible connectivity options – Enterprise Private Network or Hosted Private Network
- ↔ Two ways to access:
 - + Unified Web Service APIs
 - + Verizon's My Business Account or Verizon Enterprise Center

CUSTOMER BENEFITS

- ↔ Allows self-management of services
- ↔ Application Developer Environment
- ↔ Real-time visibility into connections and usage data
- ↔ Faster deployment of services with a software-as-a-service model



Basic M2M Management Center: Portal

Screens reside within My Business Account and Verizon Enterprise Customer portals. Provide the ability to view and self-manage the connectivity of your assets/devices without a “middle man”.

Features

- View graphical device and **status dashboard**
- View provisioning and **transaction history** per device
- Use **custom filters** to locate specific devices (i.e., usage levels or status)
- Establish **notification groups/ triggers** to issue alarms when device events occur (i.e., outage or usage levels)
- View **historical logs** showing activity
- Connect to transactions such as **Activate/Suspend/Resume/ Change MEID or ESN**

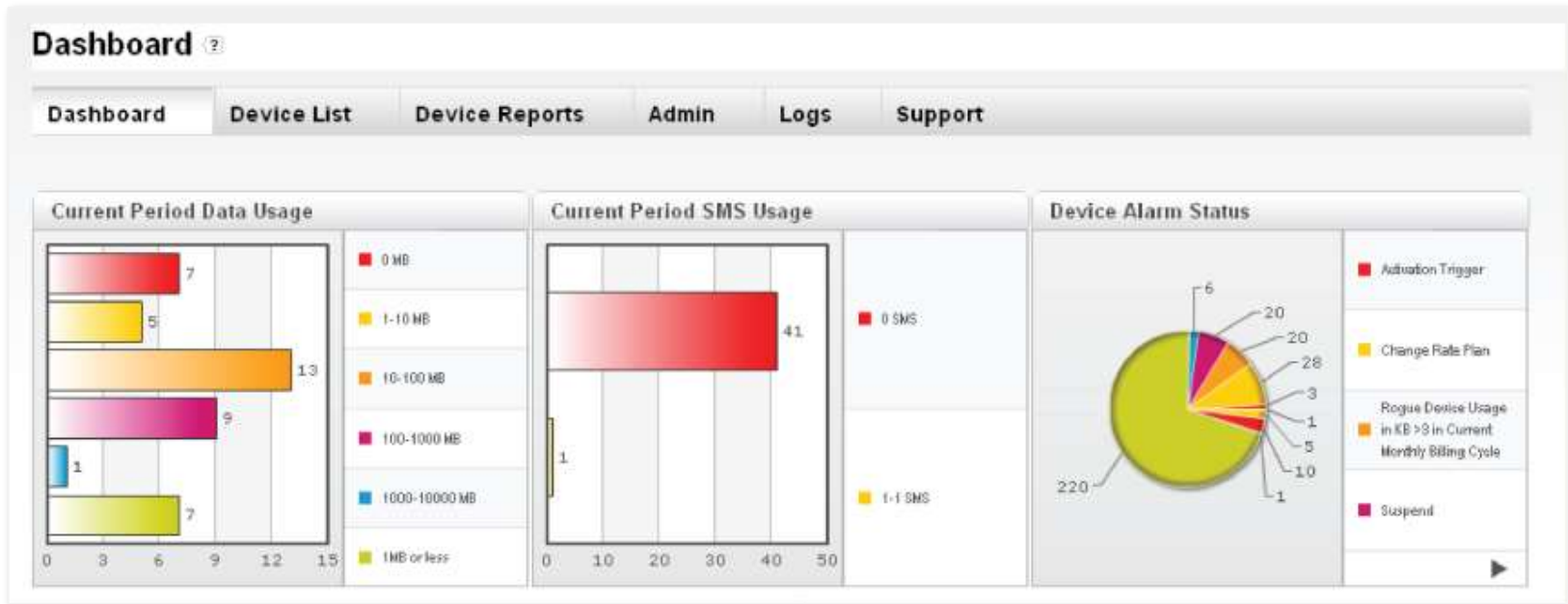
Benefits

- Provides key customer requirement to **self-manage**
- Ability to **view near real-time connections** status and usage (data and SMS)
- **Decreased time** to issue isolation
- Ability to **accumulate trend** information
- **Rapid deployment** due to software-as-a-service (SAAS) deployment model





Dashboard



Features and Benefits

- Provides a snapshot of devices, connections status, alerts, etc. in bar, line or pie chart format.
- One to six charts can be configured on this screen. Helps customers quickly see the status of devices and to identify potential problems with one or more devices.
- Configure Dashboard for each billing account

Use Scenario

Customers want to quickly view status of their devices. Dashboard allows customers to quickly determine if devices are exceeding their monthly data usage via the Current Period Data Usage chart. Support staff would be aware of a potential problem and could take proactive measures to avoid an overage condition or repair faulty equipment.



Custom Fields

Device List ?

Account: All (dropdown)
Device Identifier:
Device MDN:
Device Group: Chicago Group (dropdown)
IP Address:
Size:
Region:
Device Type:
Custom Field 4:
Custom Field 5:

Advanced Search [+]
Search (button) Reset (button) Bulk Account Maintenance (button)

-- Actions -- (dropdown) Export (button) Print (button) My New View (dropdown) Edit View (button) Create View (button)

Select All	Activated By	Activation Date	Device Identifier	IP Address	Size	Device Group
<input type="checkbox"/>	Primary, LAURAPOOR	4/20/2012 12:18:27 AM	A000000ESC4643	1.0.0.1	Large	Chicago Group
<input type="checkbox"/>	Primary, LAURAPOOR	4/20/2012 12:18:27 AM	A000000ESC4100	0.0.0.0	Large	Chicago Group

Features and Benefits

- A customer can use up to 5 custom fields to classify devices by geography, type, assigned manager, or other identifier.
- Assign labels on a global basis and values at the device level

Use Scenario

A customer service manager generates a list of all devices within a group called “Chicago Metro” and assigns a designated field support team (custom field) in Chicago.



Device Reports

Aggregated Device Usage Report

Track overall usage within a date range for an individual device.

Device Usage Report

Determine what is normal usage over days, weeks, months.

Connection History Report

Drill down on what's happening within a certain time period. View usage, start and stop records for individual data sessions.

Transaction History Report

Shows provisioning actions (activate, suspend, etc.) for a device or group of devices over a date range.

Device Reports

Connection History Report

Connection History Report provides the start and stop of a connection or series of connections for a specific device. It also shows how much data was used during each connection. [View](#)

Transaction History Report

The Transaction History Report provides a record of all provisioning actions. [View](#)

Device Usage Report

Device Usage Report will provide usage for a particular device. [View](#)

Diagnostic Event Report

Diagnostic Event Report will provide diagnostic event, if available, for a particular device. [View](#)

Aggregated Device Usage Report

Aggregated Device Usage Report will provide aggregated usage for a particular device. [View](#)



Device Usage Report

Device Reports > Device Usage Report

Dashboard Device List Device Reports Admin Logs Support

Device Identifier: %6655 Start Date: 12/1/2010 End Date: 2/18/2011

Generate Report Reset

Export Print

Device Identifier	MOB	Service Plan	Usage Date	Usage(KB)	SMS Usage	Usage Source
00118428655	3362417288	M2M	12/7/2010	2361	0	Verizon Usage
00118428655	3362417288	M2M	12/6/2010	11	0	Verizon Usage
00118428655	3362417288	M2M	12/13/2010	3	0	Verizon Usage
00118428655	3362417288	M2M	12/26/2010	1539	0	Verizon Usage
00118428655	3362417288	M2M	12/29/2010	4053	0	Verizon Usage
00118428655	3362417288	M2M	12/30/2010	455	0	Verizon Usage
00118428655	3362417288	M2M	12/31/2010	277	0	Verizon Usage
00118428655	3362417288	M2M	1/1/2011	217	0	Verizon Usage
00118428655	3362417288	M2M	1/2/2011	891	0	Verizon Usage
00118428655	3362417288	M2M	1/3/2011	2580	0	Verizon Usage

No. of Result: 38 Show 10 per page Page 1 of 4

Features and Benefits

- Displays selected device(s) usage to/from device in KBs for the date range entered.
- Helps customers understand what is “normal” data usage based on their M2M application to aid in troubleshooting. Different M2M applications have distinctive usage patterns. After several months of usage, a customer can determine what is normal to quickly identify problem devices.

Use Scenario

A customer’s support staff detects a potential problem device, and runs a Device Usage Report to determine if the device is “behaving” abnormally.



Device Groups

Features and Benefits

- Manage devices by creating device groups
- Aggregate data usage by group for notification purposes.
- Increases management efficiency when system is organized in logical or virtual groups.

Use Scenario

A customer has multiple business divisions each with machine-to-machine deployments. By creating device groups for each business division, the customer can monitor usage and other statistics by division.

The screenshot displays the 'Device Group List' interface. At the top, there is a 'Create New Device Group' button. Below it is a table with columns: 'Device Group Name', 'Default', 'Description', and 'Actions'. The first row shows 'Default: MTAS' as the group name, a green checkmark in the 'Default' column, '5B956FAD' in the 'Description' column, and a dropdown menu in the 'Actions' column.

A 'Create Device Group' modal form is overlaid on the table. It contains the following fields and options:

- Device Group Name:** A text input field.
- Description:** A text input field.
- Assign devices from:** A dropdown menu with 'Default: Toss MTAS' selected.

Below the modal form is a table of devices with columns: 'Device Identifier', 'MCN', 'Device Status', 'Rate Plan', and 'Carrier'. The table contains several rows of device data.

At the bottom of the interface, there is an 'Assigned Devices' section with a table structure similar to the one above, but it is currently empty.



Notification

Admin > Notification Setup ?

Dashboard Device List Device Reports **Admin** Logs Support

Account ' ▼

Enabled	Alarm Name	Description	Not. Group	Options
✗	<1M	Usage in KB > 100000 DAILY	RS	Edit Delete
✗	1KB Usage	Usage in KB > 1 DAILY	Amershek1	Edit Delete
✗	2KB+	Usage in KB > 2 DAILY	RS	Edit Delete
✓	Activate anything	Activation Trigger	RS	Edit Delete
✗	Monthly Usage Over 5M	Usage in KB > 5000 MONTHLY	RS	Edit Delete
✗	Service Plan Change	Change Service Plan Trigger	RS	Edit Delete

Features and Benefits

- Alerts customer's staff via email and/or SMS when a user-configured situation (i.e., usage threshold is exceeded, provisioning action occurs, etc.) occurs.
- Administrators are more efficient with their time by being proactively notified of a potential problem. Enables "management by exception".

Use Scenario

When an administrator or group is alerted that a device (or a group of devices) is close to exceeding its monthly rate plan, the support staff can address the problem before the customer incurs overage charges and/or determine that a device is faulty.





Questions

Q&A





Thank You!