



Redfone VGate

Virtualized T1/E1 to SIP Gateway Appliance

VGATE Description

The **Redfone VGate** is a ©VMWare compatible turn-key software appliance.

When combined with foneBRIDGE2 hardware, it quickly and easily provides a complete T1/E1 to SIP gateway with advanced SIP features including SIP load balancing and auto fail-over to provide always on capabilities.

VGATE Benefits

With **VGate**, customers can now easily deploy their 3CX, Asterisk, Trixbox, Elastix, SwitchVox, FreeSWITCH, etc. voice systems in a virtualized environment and still maintain superior call quality and scalability.

VGATE Benefits

Leveraging the benefits of virtualization, Redfone customers can now;

- Consolidate voice and other platforms in a single server solution
- Reduce hardware and operational costs
- Accelerate provisioning
- Centralize management
- Increase level of system availability and survivability
- Simple install, cost effective

VGATE Features

- Plug and Play VMWare software appliance
- Small footprint. 7MB downloadable image.
- Lite resource utilization on VMWare server. Single CPU at 1000Mhz, 128Mb RAM is capable of 120 concurrent call streams at high CPS ratio
- Simple Web based admin GUI
- Standards-based and conforms to the IETF, ITU-T, ANSI and ECMA standards
- Robust and comprehensive ISDN/PRI signaling capabilities
- Worldwide PSTN connectivity. QSIG connectivity for PBX to PBX interconnect
- Standards based SIP protocol
- SIP Load balancing and Failover
- Embedded fast and secure Linux OS

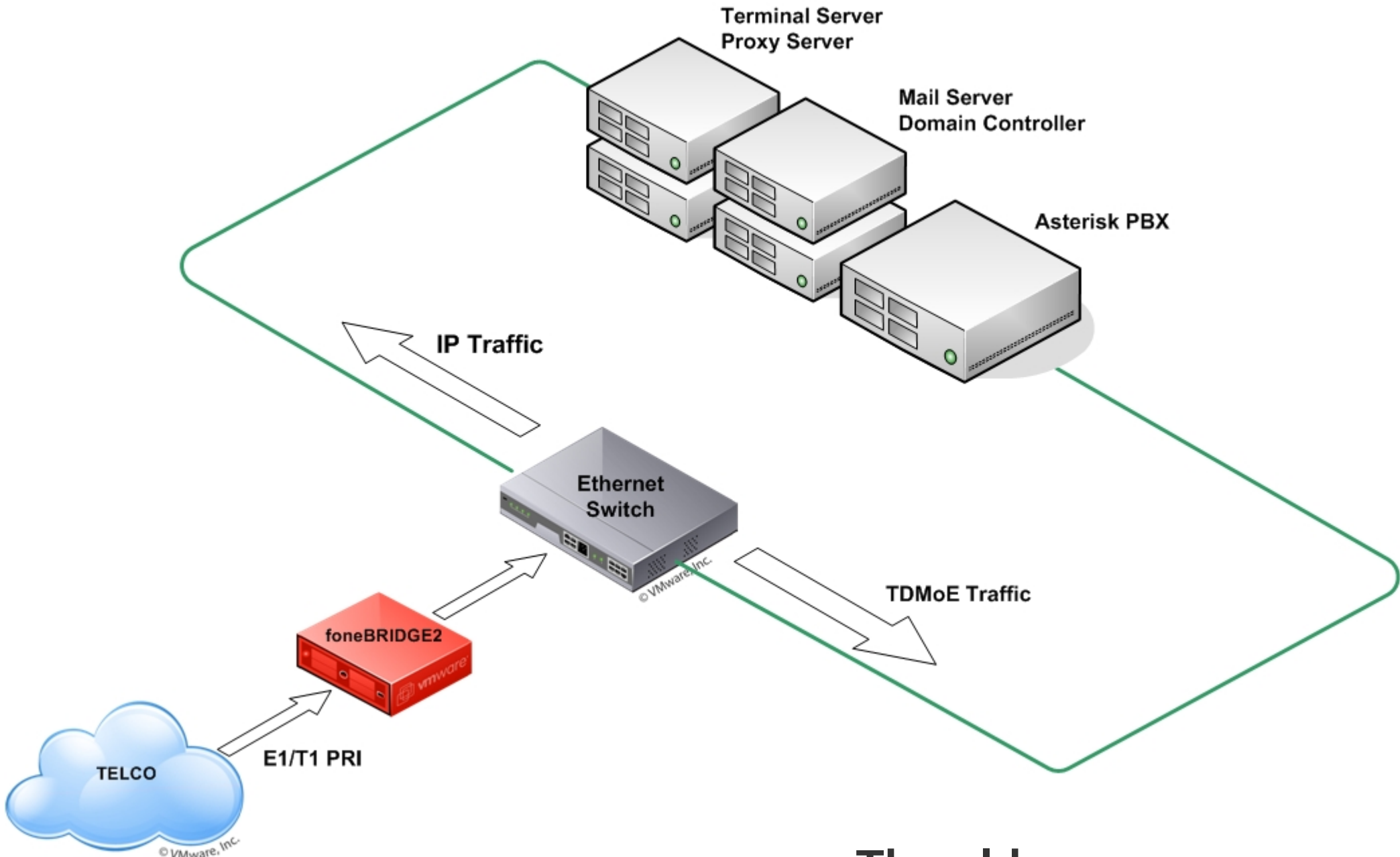
VGATE Applications

- Standalone T1/E1 to SIP Gateway trunking with Remote SIP PBX
- T1/E1 to SIP Gateway trunking to local SIP PBX internal to VMWare or on separate hardware
- T1/E1 to SIP Load Balancing to multiple SIP PBXs or SIP applications

VGATE Compatibility

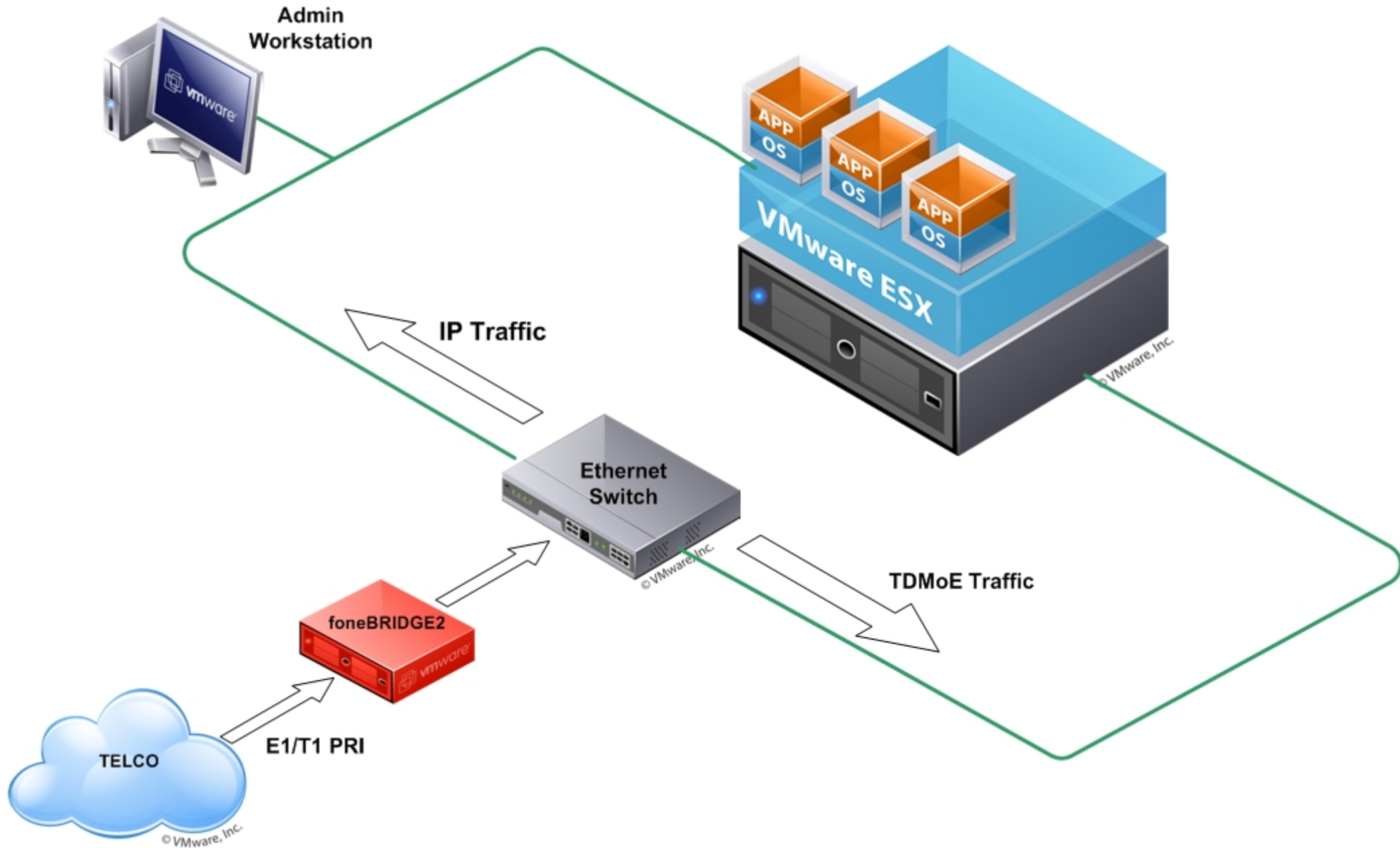
- Asterisk PBX
- FreeSWITCH
- 3CX PBX
- Asterisk derivatives; Elastix, Trixbox, etc.
- Any Standards based SIP PBX or application

Traditional Install



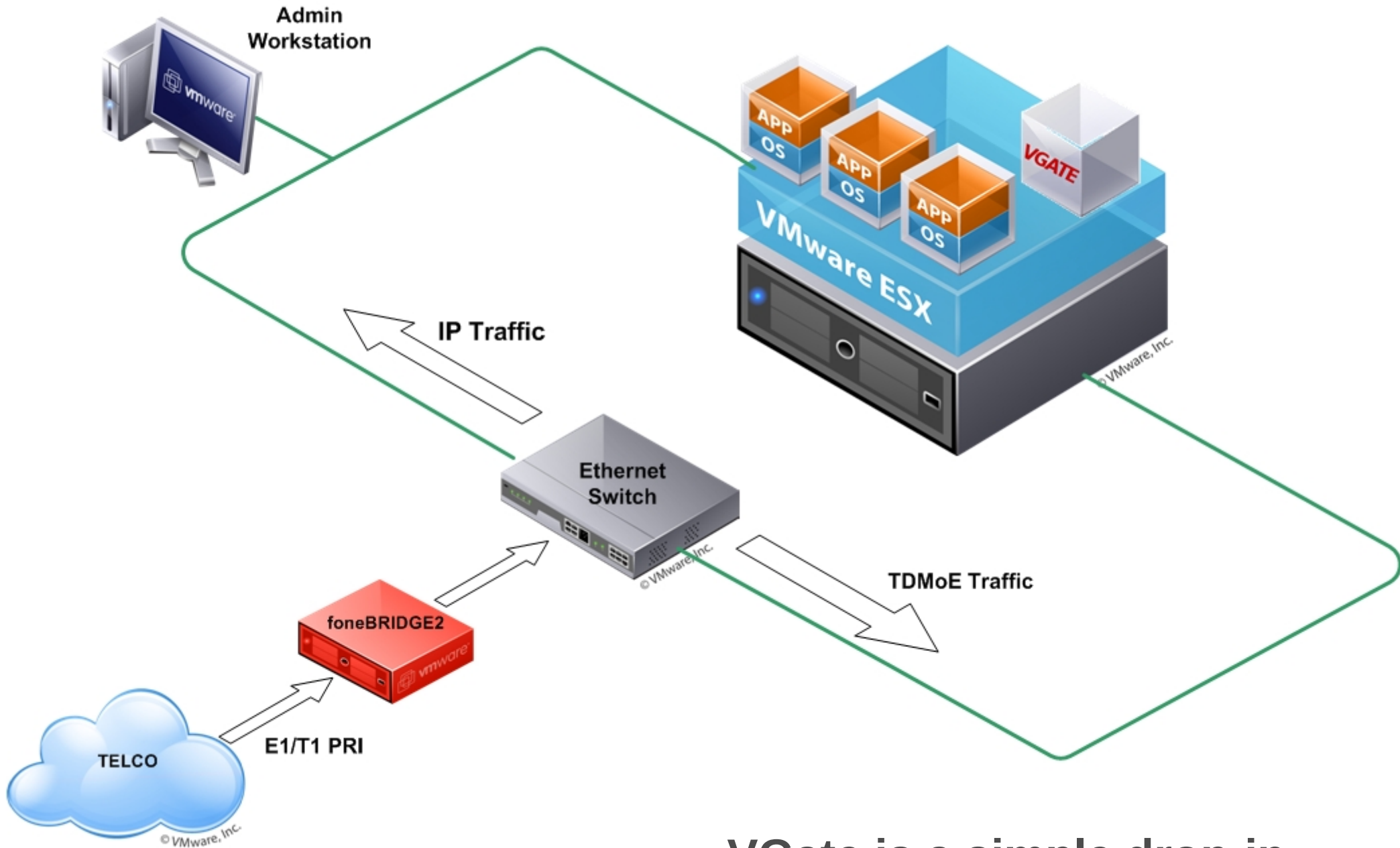
The old one server per application paradigm.

Virtualized Install



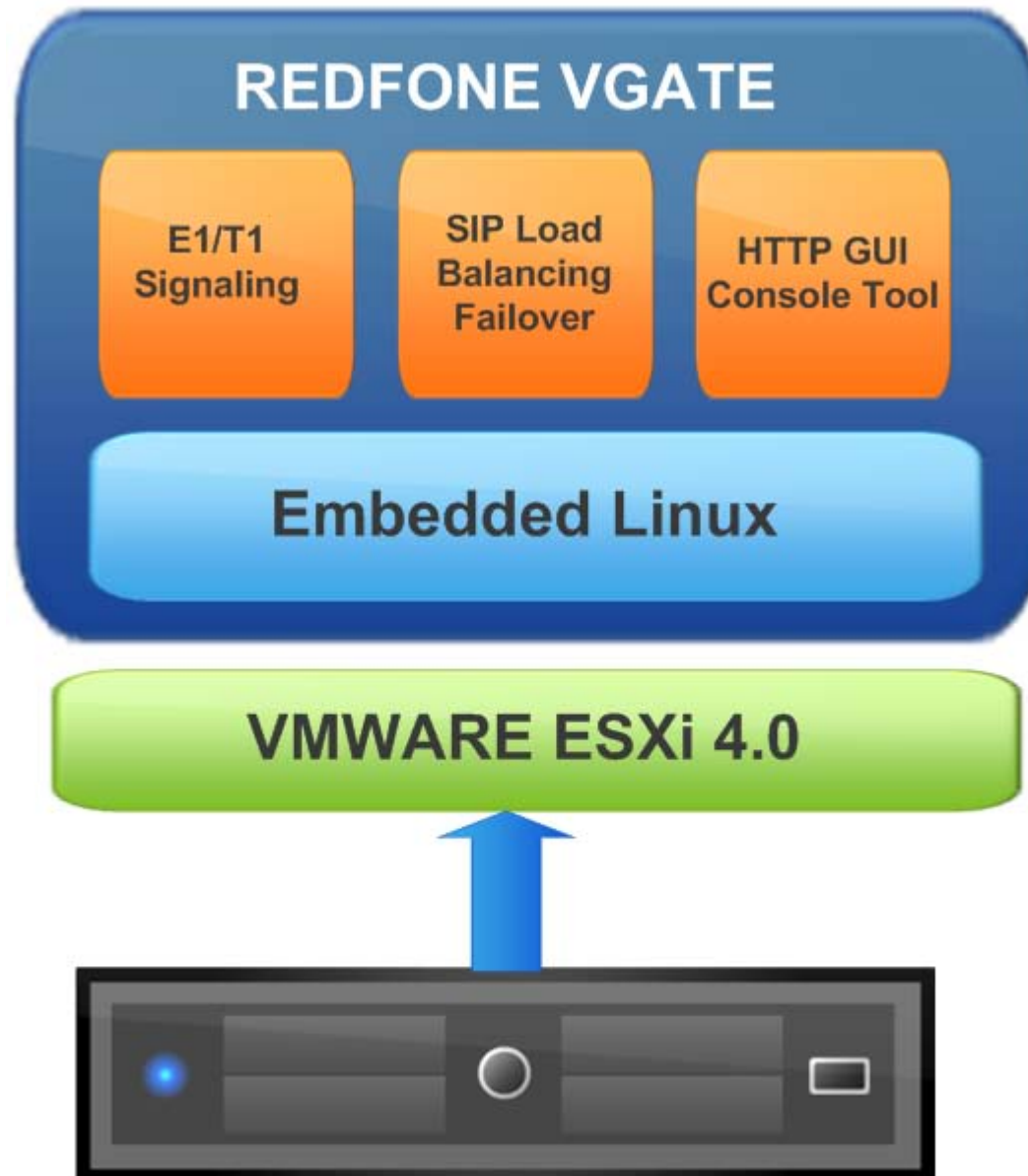
**OS and applications
consolidated on single server**

Virtualized Install



**VGate is a simple drop-in,
plug-and-play appliance**

VGATE Components



VGATE WEB GUI

The screenshot shows a web browser window displaying the Redfone VGATE web GUI. The browser's address bar shows the URL `http://10.101.10.60/cgi-bin/luci;/stok=ff73d4c32f3a0fa3d44f340ab34`. The page header includes the Redfone VGATE logo and the text "Virtualized ISDN to SIP Gateway". The system information in the top right corner indicates "OpenWrt Backfire 10.03", "Load: 0.10 0.03 0.01", and "Hostname: RF-Vgate1". The navigation menu shows "Overview", "Status", "REDFONE", "Network", "Changes: 0", and "Administration". The main content area is titled "Redfone" and contains the "Fonebridge Configuration" section. Under the "GLOBALS" heading, the following fields are visible:

Model	750-5000	select fonebridge model
Fonebridge IP	192.168.1.250	the fonebridge's ip address x.x.x.x format
Fonebridge MAC	00:50:c2:65:d4:02	the fonebridges mac address xx:xx:xx:xx:xx:xx format
Port	fb1	ethernet port used on the fonebridge
TDMoE Network Interface Card	eth1	NIC used for fonebridge Ex: eth1

At the bottom of the page, there is a search bar with the text "Find: clonin" and navigation controls for "Previous", "Next", "Highlight all", "Match case", and "Reached end of page, continued from t".

Customer Requirements

- VMWare qualified server hardware
- VMWare ESXi 4.0
- VMWare Tools Installed
- 2 NICs minimum. One NIC dedicated to foneBRIDGE2
- vSphere Client for remote admin of ESXi server
- One foneBRIDGE2. Only a single foneBRIDGE2 per VGate appliance is supported at this time.
- VGate activation license key