



Figure 1: Teldat-V Router

## Teldat-V

### Versatile compact Router

*“The ultimate solution for WWAN, ADSL/VDSLK and Metro Ethernet environments, which also integrates switch, WiFi access point and hardware encryption”*

#### ADAPTABLE TO DIFFERENT SCENARIOS

The Teldat-V can be equipped with up to triple WAN connectivity: Ethernet, xDSL and 3G/4G. Any of these can be used as main line, alternative or simultaneously and consequently this device is eminently suitable in a wide range of connectivity configurations. It also features a four-port Gigabit switch and a WiFi-n access point feature.

The state of the art software, based on Teldat’s CIT (Teldat Internetworking Code), is shared with the rest of Teldat routers, incorporating advanced routing protocols, legacy protocol support, ease of installation, state of the art remote diagnostics and advanced management tools for demanding corporations and carriers.

#### OVERVIEW

The Teldat-V is oriented to small offices with moderate connectivity requirements but with high reliability requisites and rich feature capacity. The Teldat-V gives answer to reliability through redundant access and capacity with Gigabit interfaces towards the internal network and a powerful switch complemented with hardware acceleration elements for data encryption boosts security without affecting speed.

The internal 3G/4G model provides the best possible connection management as it is compatible with all current mobile connectivity technologies up to 4G (LTE, HSPA+, HSPA, UMTS, EDGE, GPRS, GSM) and admits external antennas. Regarding software, the range of supported features matches that of higher cost routers, as these include Teldat’s state of the art support for security, quality of service, routing, management, diagnostic tools, etc.

A summary of the features is as follows:

Interfaces	Teldat-V
<b>4x10/100/1000 Switch</b>	Included
<b>ADSL/ADSL2+/VDSL2</b>	Depending on the model
<b>Internal 4G/3G module</b>	Depending on the model
<b>Ethernet WAN 10/100/1000</b>	Optional
<b>WiFi 802.11 abgn</b>	Optional
<b>USB 2.0 port</b>	Optional

#### ADVANTAGES

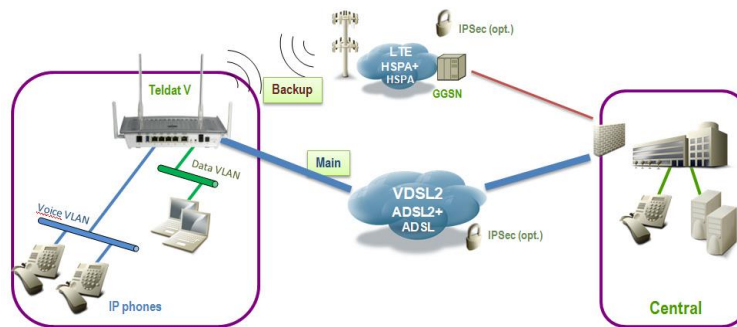
- Latest generation multi-DSL chipset, ensures maximum compatibility with the main DSLAMS and carriers, in any VDSL2/ADSL2+/ADSL flavor.
- Optional MetroEthernet connectivity.
- Internal manageable 3G/4G module (depending on the model).
- USB 2.0 port for external 4G/3G modules (optional).
- Integrated 4-port 10/100/1000vSwitch.
- WiFi 802.11 abgn access point (optional).
- Integrated hardware encryption.
- Advanced software features permitting adaptation to complex or changing environments.

## SCENARIOS

Generally speaking it's the small and medium sized offices that require guaranteed high connectivity, e.g.:

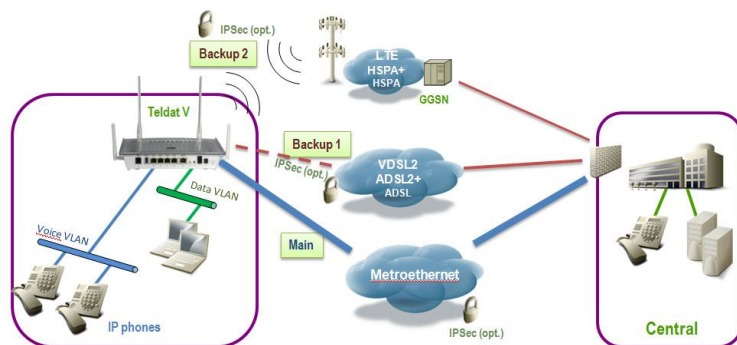
- Branches with VDSL2/ADSL2+ connectivity (+4G/3G backup)
- Branches with MetroEthernet connectivity up to 30 Mbps (+ xDSL backup and/or 4G/3G backup)
- Branches with 4G/3G connectivity (mobile/temporary offices, etc.)

The following figure shows an xDSL connectivity scenario with a 3G/4G backup option. The use of the Teldat V in these cases makes a seamless future upgrade to Ethernet connectivity possible without any further investment or local technical intervention.



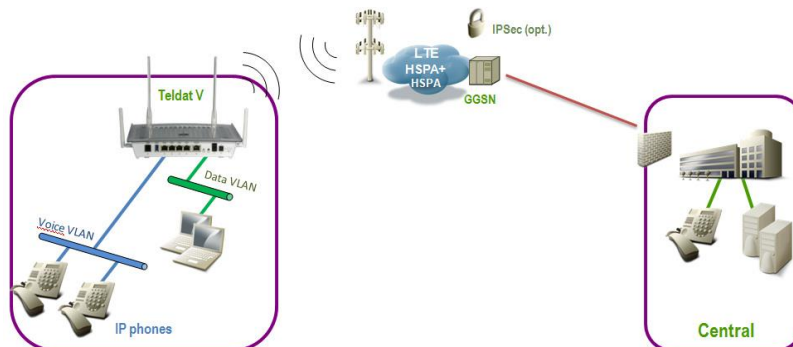
**Figure 2: VDSL2/ADSL2+ connectivity**

Another typical scenario is a MetroEthernet connectivity scenario with the possibility of xDSL and/or 4G/3G backup), where Teldat V1 is a highly competitive choice.



**Figure 3: MetroEthernet connectivity**

For mobile or temporary office, or for express set up of a new office/ATM anywhere without having to wait the installation of physical lines, Teldat V1 router is also the right choice.



**Figure 4: 3G/4G connectivity**

## KEY FEATURES

- **All in one**

The wide variety of connectivity options means the Teldat-V can cover an extensive range of branch offices all in a single device:

- ✓ WAN:
  - (i) Fixed connectivity: Ethernet and VDSL/ADSL2+
  - (ii) Wireless connectivity: 3G/4G (internal module or external USB module).
- ✓ LAN
  - (i) Gigabit capacity switch
  - (ii) 802.11abgn Access point

- **Advanced routing functions and Quality of Service**

Given that the purpose of the Teldat-V is to provide service for a large number of small and not so small branches, the device is capable of offering advanced features all of which can be necessary to a corporate environment, for example:

- ✓ Advanced routing features orientated to complex networks, such as route balancing, routing protocols orientated to corporations, routing based on policies, multiple instant routing (VRF) or routing depending on real time measured quality on the line.
- ✓ Device redundancy functions in the local network through standard protocols to integrate with other devices offering alternative connectivity
- ✓ Advanced VLANs support integrated with routing between VLANs.
- ✓ Complete Quality of Service (QoS) schema with traffic flow classification depending on any layer 3 and 4 parameter or type of traffic (voice over IP, peer-to-peer, etc), and the different queue management policies (simple through weights, associated to classes, throughput limitation, overflow, etc.)

- **Powerful Security mechanisms**

The Teldat-V incorporates security elements that are vital in corporate offices such as a firewall based on the sessions' state and the most advanced virtual private network mechanisms:

- ✓ Advanced Firewall System integrating traffic classification based on session state (Stateful firewall), and packet filtering, queuing and marking (Diffserv).
- ✓ Virtual Private Networks, through different standard protocols and with advanced mechanisms to adapt to other environments such as meshed networks via dynamic tunnels, security policies based on certificates or virtual private network mechanisms with multicast support.
- ✓ Security mechanisms related to management, such as safe authenticated access to the console or secure standard management protocols (SNMPv3).

- **Advanced Management for the 3G/4G module (depending on the model)**

The use of internal modules means advanced management of the radio interface state (signal and noise level, interference from the neighboring cells, etc.) is executed, which is inaccessible to devices using external USB or Express Card modems.

- ✓ The 3G/4G modem is controlled from the commands line interface (CLI).
- ✓ Simultaneous data and management services in 3G/4G access.
- ✓ Connectivity drop detection techniques based on the observation of traffic patterns.

- **Corporate level management**

The Teldat routers are orientated to the corporate segment; therefore management is a key aspect. The V routers, like the rest of the Teldat routers, permit management at a carrier or large corporation level:

- ✓ Secure access management complying with the RADIUS standard, different SNMPV versions (2 and 3), debug information dumping such as Syslog, etc.
- ✓ Powerful traffic reporting systems based on standards (Netflow v5 and v9)
- ✓ WireShark compatible packet analysis
- ✓ Powerful commands line interface (CLI).

- **IP Telephony**

IP telephony integrated server capable of managing up to 100 telephones with SIP, H323, Alcatel NOE or SCCP (Skinny) protocols.

## TECHNICAL SPECIFICATIONS

### SYSTEM SUMMARY

<b>System</b>	<b>Boot time</b>	Cold boot time: approximately 40 sec. Warm re-boot time: approximately 35 sec.
	<b>Dual IOS image on flash</b>	Not supported
<b>Hardware</b>	<b>CPU</b>	Broadcom 963168 (400MHz)
	<b>BUS</b>	200 MHz (400 MHz data clock)
	<b>Memory</b>	128 Mbytes (DDR)
	<b>Flash</b>	32 Mbytes
	<b>PHY</b>	Broadcom 531245
	<b>Clock</b>	Not supported
	<b>Power Supply</b>	External AC: 100v – 240v; 50/60Hz
	<b>Interfaces (according to model and license)</b>	1 x DSL 1 x Gigabit Ethernet 1 x 4 Port Switch Gigabit Ethernet 1 x WLAN 1 x WWAN 1 x USB 1 x Console
	<b>Front Panel LEDs</b>	Power, Alert, USB, WiFi Status, DSL, Eth WAN, Cell, Ethernet activity Giga Switch Ethernet Interfaces: 2 status LEDs per port (Link, Speed and activity)
	<b>Cooling</b>	Fanless
	<b>19 Rack mount</b>	Not Supported
	<b>Ethernet Interfaces</b>	<b>Physical ports</b>
<b>Connector type</b>		10/100/1000BASE-T copper ports: RJ-45
<b>Connections supported</b>		802.3i (10BaseT), 802.3u (100BaseT), 802.3ab (1000BaseT)
<b>Cable supported</b>		Cat5, Cat5e, Cat6, Cat6e
<b>xDSL Interfaces</b>	<b>Maximum cable distance</b>	10Mbps speed: 180 meters on copper 100Mbps speed: 100 meters on copper 1000Mbps speed: 100 meters on copper
	<b>Duplex Mode support</b>	On all lan ports(half/full/auto).
	<b>Auto-negotiation</b>	Supported according IEEE 802.3u
	<b>Crossover</b>	Yes
	<b>Connector type</b>	2-wire female RJ11 connector
	<b>Supported Technologies</b>	VDSL/ADSL/ADSL2/ADSL2+
	<b>Supported Standards VDSL</b>	G.993.2 VDSL2 (loop diagnostic included) VDSL2 band plan: 997 and 998 Profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a EFM encapsulation IEEE 802.3 2BASE-TL (aka 802.3ah) OAM IEEE 802.3 chapter 57
<b>Supported Standards ADSL</b>	ansi-t1.413 annex A. g.dmt (ITU G.992.1 ) annex A. g.dmt.bis (ITU G.992.3-ADSL2) annex A, L, M. g.dmt.bis-plus (ITU G.992.5-ADSL2+) annex A, M. g.lite ITU G.992.2	

	<b>DSL interoperability</b>	Lucent Stinger FS interop Siemens Xpresslink DSLAM interop DSLAMs: ALCATEL ISAM: NVLT-C, NVLT-G, NVLT-P HUAWEI: H805VDSA, H805VDSF, H805VDMF ALCATEL ASAM: ABLT-D, ADLT-F, ADLT-K, ADLT-N, ADLT-E, ADLT-J, ADLT-L, ABLT-F LUCENT: LIM24, LIM 48, LIM72, LIM72 –A2P HBi
	<b>Bandwidth</b>	ADSL2+ downstream: up to 27Mbps (ADSL+ Annex A) ADSL2+ upstream: up to 3 Mbps (ADSL+ Annex M) VDSL2 downstream: up to 100Mbps VDSL2 upstream: up to 50 Mbps
	<b>Card chipsets</b>	ADSL: Broadcom 963168
<b>WLAN Interfaz</b>	<b>Hardware type</b>	Internal module (1 module supported).
	<b>Connector</b>	Two detachable external antennas (SMA male connector)
	<b>MIMO</b>	2x2
	<b>Wifi Modes</b>	802.11 a/b/g/n modes
	<b>Dual Band</b>	Supported
	<b>Radio Modules</b>	1
	<b>Channel Selection</b>	Manual or automatic channel selection
	<b>Speed Selection</b>	Manual or automatic
	<b>Power Selection</b>	Configurable power transmission
	<b>Power Save</b>	Legacy power-save mode as well as U-APSD
	<b>Turbo Mode (108 Mbps)</b>	Not supported
	<b>WPS</b>	Not supported
	<b>Encryption Options</b>	None WEP-40: WEP encryption with 40 bit keys. WEP-104: WEP encryption with 104 bit keys, TKIP AES-CCMP
	<b>Quality of Service</b>	AIFS, Cwmin, Cwmax
<b>Frame capture</b>	Supported (DATA only)	
<b>WWAN Interfaz</b>	<b>Operational Modes</b>	Access Point
	<b>Hardware type</b>	Internal module (1 module supported).
	<b>Connector</b>	Two detachable external antennas (SMA female connector)
	<b>Standards and Bands for LTE</b>	Supported Standard 3GPP release 8 Diversity MIMO - American chipset: Band 2 (1900 MHz), Band 4(AWS) (1700 / 2100 MHz), Band 5 (850 MHz), Band 13 (700 MHz), Band 17 (700 MHz), Band 25 (1900 MHz) - Rest of the World SKU: Band 1 (2100 MHz), Band 3 (1800 MHz), Band 7 (2600 MHz), Band 8 (900 MHz) and Band 20 (DD800 MHz)
<b>Standards and Bands for UMTS (WCDMA), HSDPA, HSUPA, HSPA+</b>	DC-HSPA Supported Standards 3GPP Release 5,6,7 y 8 Diversity Band 1 (2100 MHz), Band 2 (1900 MHz), Band 5 (850 Mhz), Band 6 (800 Mhz), Band 8 (900 MHz)	
<b>Standards and Bands for GSM, GPRS, EDGE</b>	Supported Standard 3 GPP Release 99 NO Diversity GSM 850 (850MHz), GSM 900 (900 MHz), DCS 1800 (1800 MHz), PCS 1900 (1900 MHz)	

	<b>Standards and Bands for CDMA, TD-SCDMA</b>	TIA-EIA.95-A/B, TIA-EIA-IS-2000, TIA-EIA-856 Diversity 3GPP TDD (TD-SCDMA, NO Diversity) Cellular (800 MHz) PCS (1900 MHz) TD-SCDMA (1880-1920/2010-2025 MHz) GPRS (900,1800 MHz) CDMA bands BC0, BC1, BC10
	<b>Interface Failure Detection</b>	Passive (analyzing received traffic) Active (polling)
	<b>Automatic Handover</b>	Yes
	<b>Over the air firmware upgrade</b>	Yes
	<b>Signal Quality Analysis</b>	Supported
	<b>Theoretical Maximum Bandwidth</b>	EDGE Upload 236 Kbps /Download 236 Kbps UMTS Upload 384 Kbps/Download 384 Kbps HSUPA/HSDPA Upload 5.76 Mbps/ Download 14.4 Mbps HSPA+ Upload 5.76 Mbps/Download 21 Mbps DC-HSPA Upload 12 Mbps/Download 42 Mbps LTE Upload 50 Mbps/Download 100 Mbps CDMA-EVDO Upload 1.8 Mbps / Download 3.1 Mbps TD-SC DMA Upload 384 Kbps / Download 2.8 Mbps
<b>USB Interfaz</b>	<b>Type</b>	USB 2.0
	<b>Interface Failure Detection</b>	Passive (analyzing received traffic) Active (polling)
	<b>Signal Quality Analysis</b>	Supported
	<b>Theoretical Maximum Bandwidth</b>	EDGE Upload 236 Kbps /Download 236 Kbps UMTS Upload 384 Kbps/Download 384 Kbps HSUPA/HSDPA Upload 5.76 Mbps/ Download 14.4 Mbps HSPA+ Upload 5.76 Mbps/Download 21 Mbps DC-HSPA Upload 12 Mbps/Download 42 Mbps LTE Upload 50 Mbps/Download 100 Mbps CDMA-EVDO Upload 1.8 Mbps / Download 3.1 Mbps TD-SC DMA Upload 384 Kbps / Download 2.8 Mbps
	<b>USB modems supported</b>	Huawei: K3520, K3715, K4605(HSPA+), EC122(CDMA) SierraWireless: Compass885, USB307 ZTE: MF110ZTE, MF180, MF190
	<b>Theoretical Maximum Bandwidth</b>	EDGE Upload 236 Kbps /Download 236 Kbps UMTS Upload 384 Kbps/Download 384 Kbps HSUPA/HSDPA Upload 5.76 Mbps/ Download 14.4 Mbps HSPA+ Upload 5.76 Mbps/Download 21 Mbps DC-HSPA Upload 12 Mbps/Download 42 Mbps LTE Upload 50 Mbps/Download 100 Mbps CDMA-EVDO Upload 1.8 Mbps / Download 3.1 Mbps TD-SC DMA Upload 384 Kbps / Download 2.8 Mbps
<b>Console</b>	<b>Interface</b>	RJ45
	<b>Type</b>	RS232, N81
	<b>Speed</b>	Default: 9600 bps Maximum: 115200 bps

## LAYER 2 PROTOCOL SUMMARY

### Ethernet

<b>802.1Q (VLAN)</b>	Yes
<b>802.1P</b>	Yes
<b>Q-in-Q</b>	Yes
<b>Port Mirroring</b>	In Gigabit Ethernet Switch ports

### ATM over xDSL

<b>AAL5 type</b>	VC-multiplexing, LLC-multiplexing
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<b>ATM Class of Service</b>	UBR, UBR+, VBR-nrt, VBR-rt, CBR with traffic shaping
<b>PVCs</b>	Up to 31
<b>OAM cells</b>	Yes
<b>Encapsulation</b>	Routed IP, PPPoE, PPPoA (AAL5-mux), Ethernet Bridged over ATM, Classical IP over ATM, MLPPP Encap for support of xDSL multi-access

### WLAN

<b>Authentication Options</b>	None, Open, Shared Key, WEP, WPA-PSK, WPA2-PSK (WPA Personal), WPA-802.1x, WPA2-802.1x (WPA Enterprise).
<b>Security Options</b>	WEP, WPA, WPA2
<b>MAC Filtering</b>	Supported
<b>Multi SSID(ESSID)</b>	Yes .Max. 4 SSIDs.
<b>WMM QoS</b>	Supported
<b>Country Codes</b>	Supported

### WWAN

<b>Automatic handover</b>	Yes
<b>Interfaz failure detection</b>	Active and passive
<b>Dual Context</b>	Yes
<b>SMS management</b>	Yes
<b>SIM selection criteria</b>	Signal level, Radio technology (UMTS, LTE, ...), IP probes (availability, latency, jitter), Time Schedule, Manual configuration
<b>GPS support</b>	Yes
<b>Module upgrade</b>	Yes

### Bridge

<b>Interfaces</b>	Ethernet, Frame Relay, PPP, ATM, HDLC, IP tunnel
<b>Methods</b>	Source Transparent Bridging (STB), Source Route Bridging (SRB), Adaptive Source Route Transparent Bridging (ASRT), Integrated Routing and Bridging (IRB)
<b>STP protocols</b>	Spanning Tree Protocol (STP) IEEE 802.1d Rapid Spanning Tree Protocol (RSTP) IEEE 802.1w Per VLAN Spanning Tree Protocol (PVST+)

### PPP

<b>Base Interface</b>	Synchronous serial line, Asynchronous serial line (AT commands), ISDN, ATM (PPPoA/PPPoE), G.703, L2TP, Frame Relay (PPPoFR) PVC, Internal port (GPRS, UMTS)
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### PPPoE

<b>Base Interface</b>	ATM, Ethernet (subinterfaces included)
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## IPv4 PROTOCOL

### IPv4 summary

<b>Basic features</b>	IPv4 stack and dual stack IPv4/IPv6 ARP and Local Proxy ARP Path MTU discovery NAT (static, dynamic, NATP, ALG, PAT firewalling) Equal Cost Multi-Path Routing (ECMP)
<b>Routing protocols</b>	Static routing Policy Based Routing (PBR) RIP OSPF BGP

<b>Others</b>	VRF support IP SLA TVRP (HSRP compatible) / VRRP
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### RIP

<b>Supported versions</b>	RIP-I, RIP-II
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### OSPF

<b>Supported versions</b>	OSPF-2
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### BGP

<b>Supported versions</b>	BGP-4
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### VRF

<b>Maximum VRFs</b>	255
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### IP SLA (SAA)

<b>Supported features</b>	NSM (Network Service Monitor) feature for measures or operations NSLA (Network Service Level Advisor) feature for advisors.
<b>Controlled protocols</b>	IP routes, SIP Server, UA-NOE Server, route/maps, ToIP
<b>IPSLA probes</b>	Response time through Echo IP/ICMP Web page download time. Jitter measurement between two routers. Connection status through a BFD session

### Multicast

<b>Features</b>	IGMP (v1,v2, v3), PIM-SM, MSDP, MLD
<b>IGMP versions</b>	IGMPv1, v2, v3
<b>MLD version</b>	Multicast Listener Discovery Version 2 (MLDv2)

## IPv6 PROTOCOL

### IPv6 summary

<b>Basic Features</b>	Dual Stack IPv4/IPv6 Neighbor Discovery Default Address Selection Unique Local IPv6 Unicast Addresses (ULA) ICMPv6 SLAAC
<b>Routing protocols</b>	Static Routing RIPng OSPFv3 MP-BGP (IPv6 e IPv4 unicast)
<b>Transition mechanism</b>	IPv6 over IPv4 (Manual, automatic 6to4, 6rd) IPv4/IPv6 over IPv6 GRE IPv4/IPv6 all combinations

### IPv6 over IPv4 tunnels

<b>Types</b>	Manually configured IPv6 over IPv4 tunnels Automatic 6to4 Tunnels Automatic 6rd Tunnels (Rapid Deployment)
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### IPv6 Tunnels

<b>Types</b>	IPv4 over IPv6 IPv6 over IPv6
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## NETWORK SERVICES

### Summary of Network Services



<b>Supported Services</b>	DHCP Server, Relay, Client. NTP Client. DNS Server, Client, DNS Client Lookup. DDNS. FTP Server/Client, SFTP Server/Client. SSH Server and Client. Telnet Server/Client. TFTP Server. AAA: Local, Radius and TACACS+ LDAP Client Syslog Client Proxy ARP. SCP Client. ICMP Ping and Traceroute. CDP (partial support)
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### AAA (Authentication, Authorization and Accounting)

<b>Services supported</b>	Console, Telnet, SSH, FTP, PPP
<b>Server support</b>	RADIUS, TACACS+

### LDAP for IPv4

<b>Version</b>	LDAP version 2
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## VPN (VIRTUAL PRIVATE NETWORKS)

### VPN Summary

<b>Protocols</b>	L2TP, IPSec, GRE, DMVPN (NHRP), GETVPN
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### IPSec

<b>Security services</b>	ESP, AH
<b>Modes</b>	Transport and Tunnel Mode
<b>IKE</b>	Main and Aggressive mode
<b>Authentication</b>	Preshared Key Signatures RSA public key Certificates (CSR, SCEP, Revocation Lists from LDAP Servers, X.509v3, PKIX) MD5 SHA-1
<b>Encryption</b>	DES (56-bit) 3DES (168-bit) AES encryption (128, 192, 256 bit)

## QoS (QUALITY OF SERVICE)

### QoS General

<b>Available interfaces</b>	Frame Relay and FRL Subinterfaces X.25 Lines PPP and MLPPP Lines HDLC Lines ATM Subinterfaces Ethernet Interfaces and Subinterfaces Wireless LAN Interfaces TNIP Interfaces BVI Interfaces
<b>Scope</b>	Traffic classification Traffic marking (Diffserv) Distributing bandwidth Prioritization Traffic shaping

<b>Number of classes</b>	32
<b>Priority queues</b>	16 priority queues per interface (4 intraclass x 4 interclass)
<b>Policies</b>	Strict Priority Low Latency Queue (LLQ) Weighted fair queuing(WFQ) CBWFQ, (Class based weighted fair queuing)

### TRAFFIC CLASSIFICATION

#### Access List (ACL)

<b>Services using ACL</b>	Filters Security/Firewall purposes Routing protocols QoS data flows VPN data encryption
<b>ACL limit</b>	Up to 7000 ACL

#### Prefix List

<b>Services using Prefix List</b>	RIP OSPF BGP
<b>Prefix List limit</b>	Up to 199 prefix list

### SECURITY AND FIREWALL

#### Security and Firewall

<b>Level 2 security</b>	MAC Filtering 802.1X Authentication (802.11i for Wifi connections)
<b>Stateful inspection (stateful firewall)</b>	Filtering Denial of Service Web Content Filtering Filtered content in user data Filtering P2P sessions RTP traffic filtering Filtering ICMP-echo to the WAN interface Rate-Limit for specific trades (Ping-flood attack) Filtering denied addresses (RFC1918)

### MANAGEMENT

#### Management

<b>Management options</b>	CONF or AUX serial port SNMP v1, v2c and v3. Telnet SSH1/2
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#### SNMP

<b>Version supported</b>	SNMP v1, v2c, v3
<b>RMON</b>	Supported (group Alarm and group Event)

#### Netflow

<b>Version supported</b>	Netflow version 5 and version 9
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#### Sniffer

<b>Capture from</b>	Selected interface or all interfaces
<b>File format</b>	Wireshark compatible

### TELEPHONY OVER IP

#### General

<b>Protocols</b>	SIP (UDP and TCP), SIPoTLS, H.323, UA-NOE, MGCP, SRTP, Media Encoding, SCCP (Skinny)
<b>Survival terminals support</b>	SIP, UA-NOE, SCCP (Skinny), H.323
<b>Telephony survival features</b>	<ul style="list-style-type: none"> <li>Basic call incoming &amp; outgoing call</li> <li>Block dialing for outgoing call</li> <li>DDI</li> <li>Calling line / name identification presentation (CLIP/CNIP)</li> <li>Calling Line Identification Restriction (CLIR)</li> <li>Connected (COLP) party number identification</li> <li>Connected line /name identification restriction (COLR)</li> <li>Call forwarding unconditional (CFU)</li> <li>Call forwarding on Busy (CFB)</li> <li>Call Hold (CH)</li> <li>Enquiry call</li> <li>Broker call</li> <li>Conference call</li> <li>Transfer</li> </ul>

### SNA

#### General

<b>Encapsulation over LAN/IP</b>	LLC2 DLSw (SNA over IP)
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### DATA ACCELERATION

#### Data Compression

<b>Support</b>	IP, X.25 and PPP
<b>Standards</b>	Van Jacobson STA LZS

### HIGH AVAILABILITY

#### General

<b>H.A. Protocols</b>	<ul style="list-style-type: none"> <li>Fault Recovery: BFD</li> <li>ECMP(Equal Cost Multipath) for RIP, OSPF and BGP</li> <li>VRRP and Interface Tracking</li> <li>TVRP (HSRP compatible)</li> <li>WRR(Wan Reroute) (Internal feature for interface backup)</li> </ul>
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#### BFD

<b>Version</b>	Version 0, version 1
<b>Key Authentication</b>	MD5, SHA1



**Figure 5: Perspective view of Teldat-V router with WWAN and WLAN antennas**



**Figure 6: Top view of Teldat-V router with WLAN antennas**

**TELDAT DOCUMENTATION**

This datasheet shall be used only for information purposes. Teldat reserves the right to modify any specification without prior notice.

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