



COMMUNICATION INFRASTRUCTURE SERVICES

Reliability that puts you at ease



wateen.com

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At Wateen, we have a vision of a nation where everyone is equal.
A nation where everyone shines.

With our portfolio of services we enable the people and businesses
of this nation to be at par, if not better than the rest of the globe.
It's their success that acts as a catalyst for our progress.

Although our services are diverse, our promise is constant:
To empower every man, woman and child of Pakistan.

We are from this nation, We are for this nation

CONNECTIVITY COMMUNICATION INFRASTRUCTURE SERVICES



Wateen CIS - Communication Infrastructure Services provide customized, cost-effective and efficient L2/L3 Data VPN and Internet transit services that gives customer peace of mind, so the customers can focus on their core businesses not on the network.

Wateen CIS has the capability to connect two or multiple sites within the metro and /or long haul distance just like a Wide Area Network (WAN) over WiMAX, Wireless, FTTx/Metro Ethernet/GPON, and DVB-VSAT. Moreover, Wateen CIS allow enterprises to connect their branch offices through public or private cloud with confidence by minimizing technology complexity that will also reduce the cost and risk. Enterprise customers also experience assured performance through superior services, security and 24x7 dedicated corporate support. Depending on the application requirement or number of user at certain site, enterprise customers can select available the medium with required bandwidth range:

Bandwidth Range	WiMAX	DVB-VSAT	FTT(x)/Metro Ethernet/ GPON
64Kbps – 512Kbps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
512Kbps – 1Mbps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1Mbps and Above			<input checked="" type="checkbox"/>

Routers and switches are the building blocks for all business communications from data to voice and video to wireless access. They can improve a company's bottom line by enabling your company to increase productivity, cut business costs, and improve security and customer service.

CIS | DATA

In today's businesses, complex challenges can be streamlined by building the right network. The unsung heroes of any network infrastructure is the hardware enabling it. These switches and routers can help your business in the following ways:

- The only secure end to end Fiber Connectivity, with committed speed and reliability.
- Speeds of up to 10G and beyond.
- Always connected - 24 hours a day.
- Ultimate one window operation for all your connectivity and communication infrastructure.
- Diverse range of last mile delivery with both wireless and wired mediums.

COST-EFFECTIVE & FLEXIBLE

Using routing and switching technologies allows your staff, even those located in different locations, to have equal access to all your business applications, information and tools. Keeping everyone connected to the same tools can increase employee productivity. Routing and switching also can provide access to advanced applications and enable services, such as IP voice, videoconferencing and wireless networks



ENHANCING CUSTOMER SERVICE

- Provide ready access to customer information
- Improve customer responsiveness

Today's customers expect rapid responses and personalized services whenever they're dealing with your business, either by phone, email or on a website. A responsive, reliable small business network is an absolute necessity to give your employees speedy access to customer information, and enable them to respond rapidly and intelligently to resolve customer requirements.

REDUCING OPERATING COSTS

- Share office equipment for reduced costs
- Provide high-speed Internet access

Routing and switching technologies can make a positive impact on your bottom line. You save expenses by sharing equipment, such as printers and servers, and services, such as internet access. A reliable network can also grow with your business, keeping you from having to replace it as your needs grow.

IMPROVING SECURITY

- Reduce risk
- Protect valuable business information

Because high-speed internet connections are always on, you may be vulnerable to security threats. Viruses, spyware, internet attacks, e-mail assaults, and other security concerns are real dangers. By installing a networked solution with switches and routers, you can protect valuable business data. For example, routers can protect your network with a built-in firewall and Intrusion Prevention System (IPS) - specialized software that examines incoming data and protects against attacks.

ENABLING REMOTE CONNECTIONS

- Provide secure remote access for mobile workers
- Get work done from anywhere

Virtual teams, mobile workers, and home-based telecommuters all need to share information at any time. Modern businesses need networks that can connect employees, suppliers, partners and customers regardless of location, whether they are across town or halfway around the globe. With remote connectivity through a VPN, employees can securely access company resources and tools and work more productively.

SHARING APPLICATIONS

- Provide staff access to business applications
- Improve employee productivity

Using routing and switching technologies allows your staff, even those located in different locations, to have equal access to all your business applications, information and tools. Keeping everyone connected to the same tools can increase employee productivity. Routing and switching can also provide access to advanced applications and enable services, such as IP voice, videoconferencing and wireless networks.

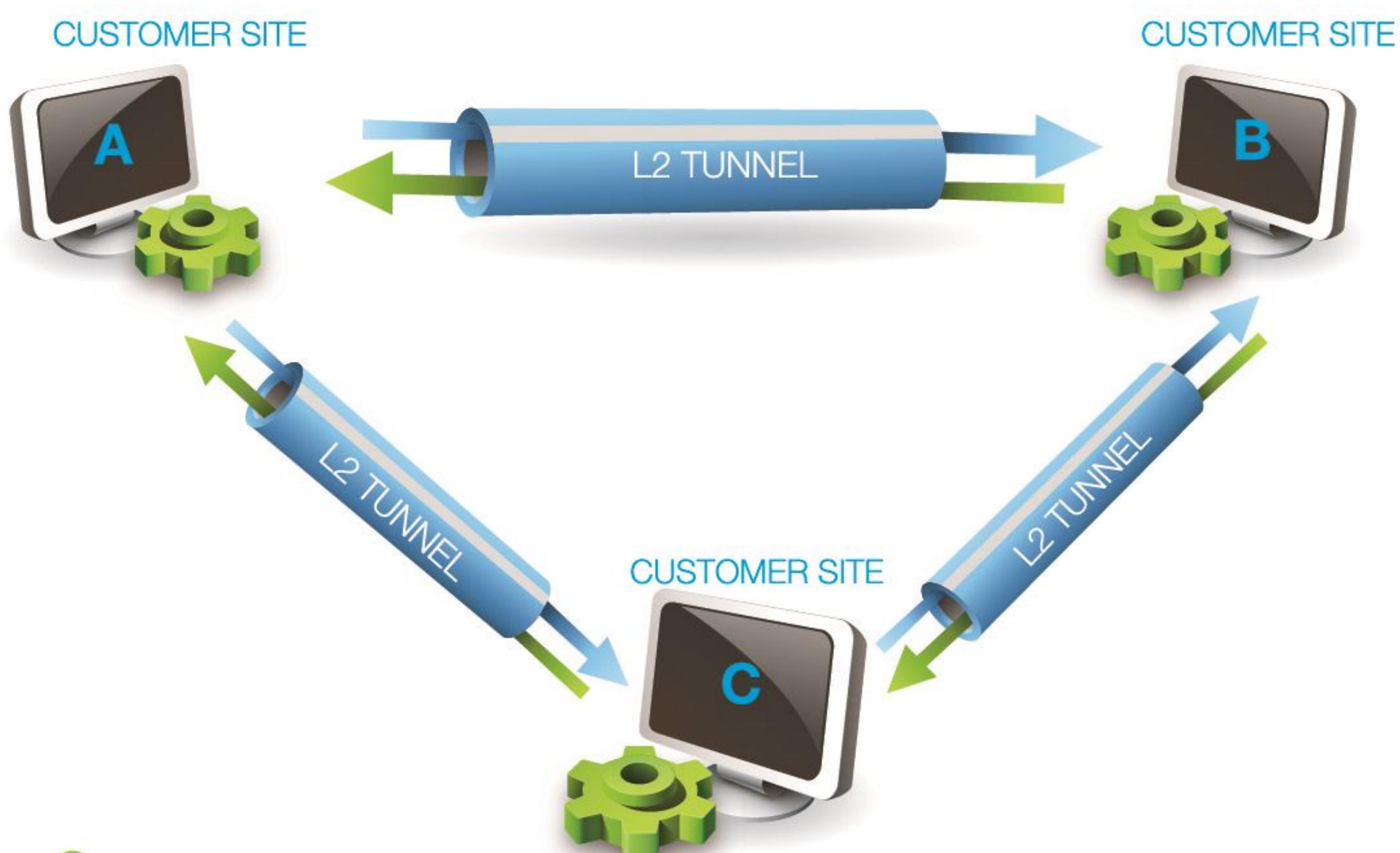
FAST ACCESS TO INFORMATION

- Manage information efficiently
- Review what is happening across your business

Accurate, timely information is essential for making prudent business decisions. Routing and switching provides access to allow great visibility into real-time business information and provides a sound basis for effective decision-making.

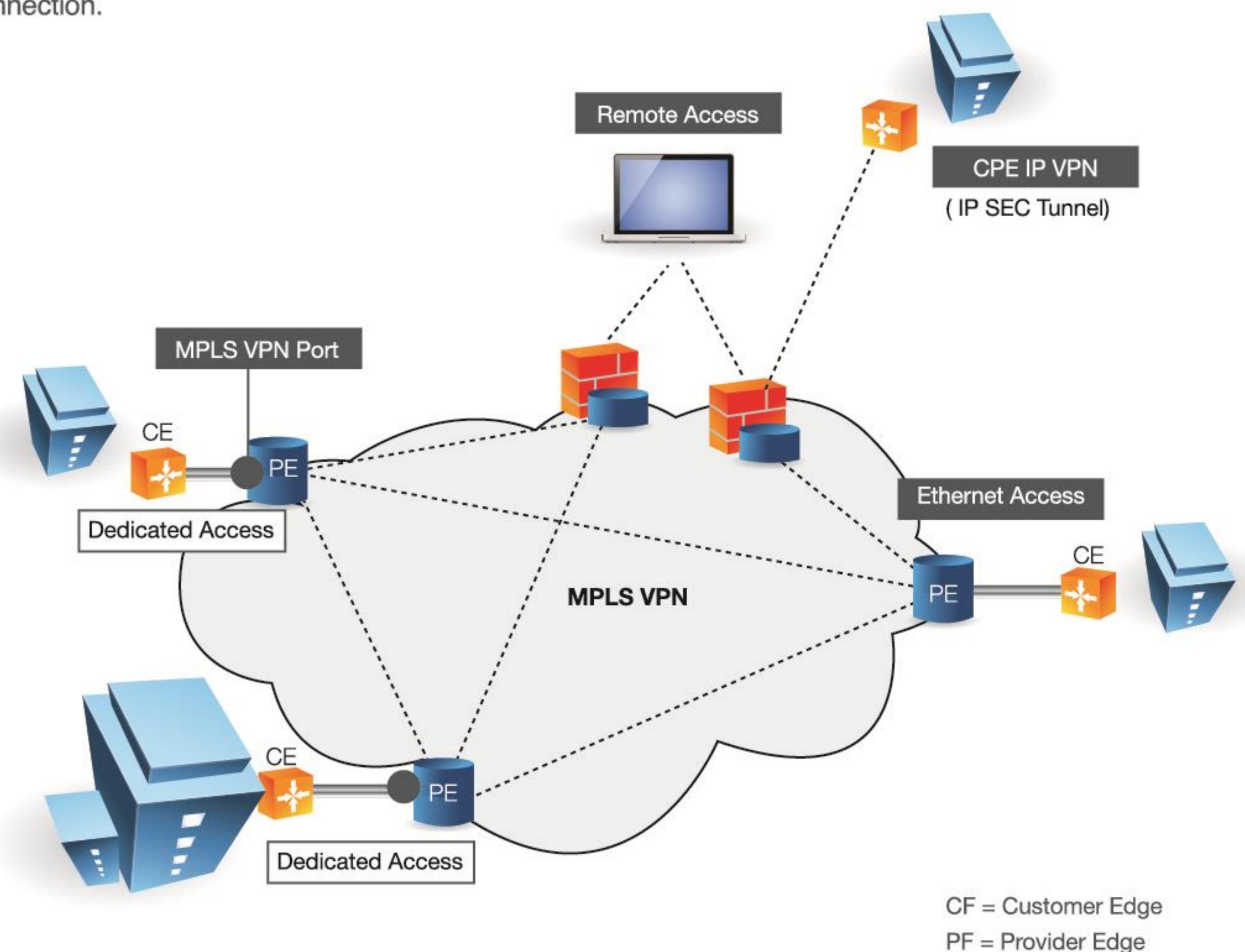
CIS/ L2 DATA VPN

Wateen clear channel circuit or layer 2 VPN is a “point-to-point” service. In this service, an Ethernet wire is handed over to the customer who either connects it to a layer 2 switch or a router, depending on which layer the customer wants to build the solution on top off. This service is mostly suitable for customers who have a traditional hub and spoke network topology. All sites connect to an aggregation site which serves as the regional hub resulting in a point to multipoint link between the aggregation site (the hub) and the remote sites (spokes).The following diagram depicts the typical deployment at a customer's end.



CIS/ L3 DATA VPN

Wateen CIS Network has great capability to provide L3 VPN services to enterprise customers. In this scenario, the customer has to connect at least two branches/offices with Wateen's MPLS network. The last mile connectivity enables customer to reach nearest PE (Provider Edge) router of Wateen MPLS Core. The last mile connectivity between CE (Customer Edge) router and PE Router is a purely on layer 2 domain. Once the customer is connected to PE, PE initiates a separate routing instance for that customer and populates virtual routing table having routes for CE node in it, this virtual instance is associated to that dedicated instance of router for the customer. Following diagram depicts the typical deployment of L3 Data VPN connection.



CIS/ ANY-TO-ANY

L3 VPNs are offered to the customers in both point-to-point and point-to-multipoint configurations. This allows the customers to have “any to any” connectivity on their network by creating a mesh as given in the above illustration. This provides customers with the flexibility of designing VPNs according to their requirements.



Secure your Mission Critical
Business with Wateen Dual
Hub's TRUE reliability

CIS | DUAL-HUB

As businesses expand, so does their need for connectivity. With dual-hub connectivity, improve your productivity by providing more frequent links and ensuring that your business runs smoothly and efficiently.

Wateen has designed its core Network in order to make sure that it serves the industry where business matters most. Wateen Dual-Hub services would allow you to focus on your core business and let Wateen Experts manage your Business Critical Applications. With Dual-Hub Services the availability and SLA may increase up to your level of satisfaction.



CIS/ INTERNET

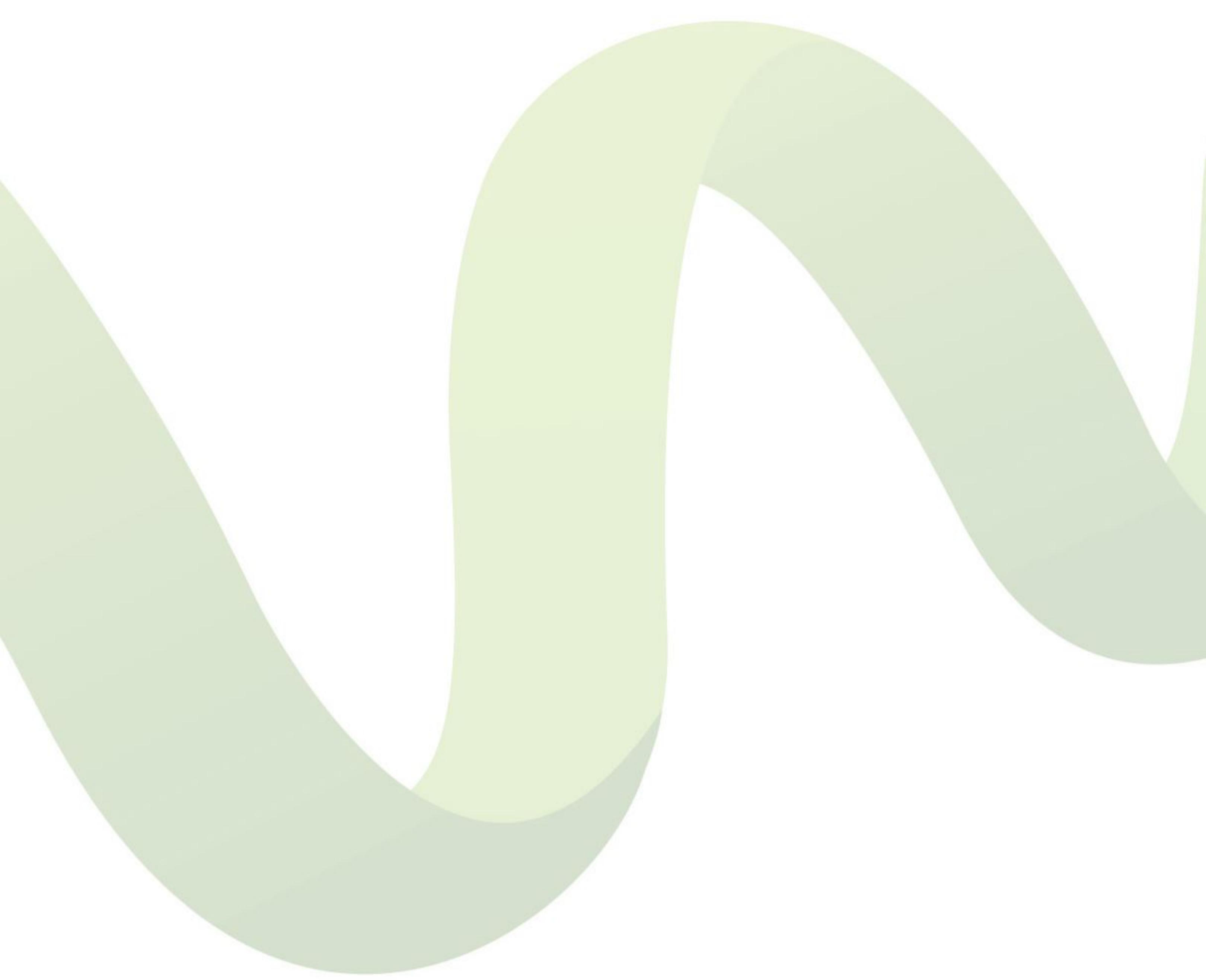
- Create your VPN tunnels on Wateen reliable internet services at any location in Pakistan.
- True committed information rate over end to end fiber connectivity.
- Minimizing downtime with exceptional round the clock support services.



DEDICATED INTERNET ACCESS

**Constant,
reliable
high- speed
internet**

In today's business environment, the internet is as business critical as having a telephone line. Access to content and secure transfer of information in today's world has become a critical success factor for businesses. With so much at stake, reliable internet connectivity through dedicated bandwidth and high speed is essential to your business.



WHY WATEEN

- Pakistan's largest fiber optic network spanning over 15,000 km across the country
- Converged communication partner for over 200 corporations at 5,000 locations across Pakistan
- Preferred data network connectivity partner for over 20 banks, connecting 35% off all bank branches
- Service Providers with the edge of being System Integrators as well
- Gold Partnership with world's leading technology providers
- State-of-the-art Data Centers providing unparalleled cloud-based services and solutions
- A one-window operation for all your connectivity and infrastructure requirements
- 24x7 access to the largest pool of skilled technicians available in Pakistan ready to support you

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