



HARDWARE SOLUTIONS

- Routers for all use cases
- Hubs for all sizes of companies
- Modules for every technology

SOFTWARE SOLUTIONS

- Redundancy systems: prevent device failure
- VPN Client: use mobile data and WiFi on your laptop





Flexibly combine different SD-WAN features perfectly suited to your needs to get the fast, reliable, and scalable connectivity you need.



SERVICE & CONSULTING

- VLM: subscribe once and get coverage for all your devices
- Trainings: Viprinet experts help you manage your infrastructure



CLOUD SOLUTIONS

- VipriGrid: plug your Viprinet router in and start working
- Virtual VPN Hub: install Viprinet on a VM of your choice

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GET MORE OUT OF YOUR IT

Live broadcast from the Alps. Video conference in a moving ambulance. Connecting to a North Sea oil rig. Thermal imagery from the helicopter live to the ground station. Live tracking of your supply chain.

As the most flexible SD-WAN provider on the market, Viprinet enables connection scenarios that you previously couldn't even dream of. Combine two or more Internet connections and get not only a highly available connection, but also sum up your individual bandwidths. The military-grade encryption also protects your data traffic from any attacker.

Our SD-WAN solutions put control of your connection entirely in your hands. Instead of having to adapt your connectivity to the available technology, Viprinet adapts to enable the connectivity you want.

Viprinet comes with a sophisticated QoS system that allows detailed configuration for every single WAN link, ranging from latency settings to cost defining which link is expensive to use and should therefore be considered as backup only. In addition, every application can be assigned a customized settings profile.

This means that with Viprinet, you're prepared for every situation: classic site-to-site connections are just as possible as the integration of mobile employees or even moving vehicles. So, now you can do your business from the hammock—in your home office in the Caribbean.



GET ROCK-SOLID CONNECTIVITY FOR YOUR IT

Different technologies and providers will minimize your cost of downtime caused by failures in your WAN connections. Even if one link breaks, your mission-critical application will keep on working. Get 99.999 % uptime of your connectivity, rocksolid wherever you are.



MINIMIZE YOUR CONNECTIVITY COSTS

Viprinet SD-WAN solutions will reduce your connectivity costs by up to 40% simply by bonding several cost-effective consumer-grade Internet connections. Combine reasonably priced WAN links of different technologies from different providers to perfectly suit your needs and replace expensive MPLS lines.



IMPROVE YOUR DATA SECURITY

Bonding different WAN technologies and providers means that every single IP packet is split up and transmitted via different providers, making it impossible to compromise your data connection. In addition, Viprinet uses highest security standards for encryption. We protect your connections not only with carefully audited encryption methods but also with solid development and engineering "made in Germany".



HIGH BANDWIDTH WITH BONDING

Viprinet bonds all available WAN links to form a single, highly available joint line. So, you get the aggregated bandwidth of all of your bonded Internet connections — be they xDSL, UMTS/3G, LTE/4G or satellite — at any given time and even for single applications. Increase your bandwidth capacity by up to factor 10 and get additional mileage and speed out of your connections.

THE TECHNOLOGY

Combine several broadband links to create a single high-availability line — with the Multichannel VPN Router.

This true bonding solution provides better performance than your single best-performing WAN connection. You can combine all types of WAN connections, such as 4G, WiFi, and xDSL. To the LAN, these aggregated connections appear as a single line providing the accumulated up- and downstream of the different connections—even for single downloads. Multichannel VPN Routers and Hubs are available as hardware devices, the latter as well as virtual application.

THE CLOUD BONDING PRINCIPLE

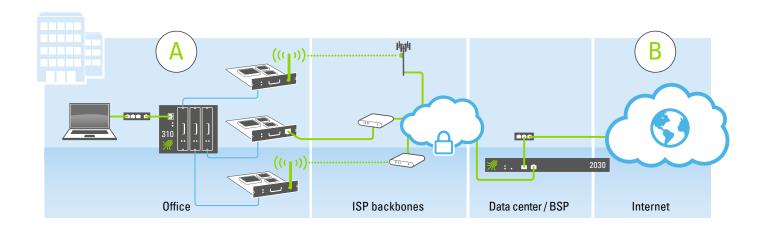
To achieve fast and secure connectivity, Viprinet uses a star topology that requires two devices at the minimum:



The Multichannel VPN Router establishes an encrypted VPN tunnel to the Multichannel VPN Hub (concentrator) using each available WAN connection, called channel. These channels are then bonded into one tunnel through which the data is transferred.



The Multichannel VPN Hub acts as an exchange, forwarding private data to another customer site and decrypting and forwarding public data to its destination in the open Internet.



01 TWO DEVICES: ROUTER AND HUB

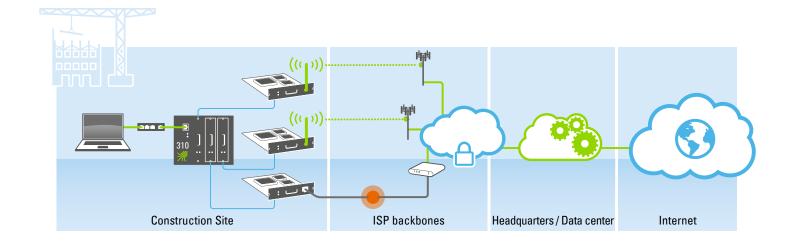
A Viprinet solution always consists of a Multichannel VPN Router and a remote station, the Multichannel VPN Hub, or its virtual equivalent, the Virtual VPN Hub.

02 ALWAYS ONLINE THROUGH REDUNDANCY

All solution components are designed for redundancy, increasing connection availability to 99.99%: with the Hub Redundancy System, Node Stacking, and at least two WAN modules per router.

EXAMPLE: RAPID SITE DEPLOYMENT

In Rapid Site Deployment, the focus lies on easy connectivity: You want to take a router to a site, plug it in and start working. Viprinet can do just that: The following infographic shows a construction site setup with a Multichannel VPN Router 310 equipped with 2x 4G and 1x VDSL that is connected to a Viprinet Virtual VPN Hub. Two 4G connections provide steady bandwidths only to become backups once a VDSL landline is installed permanently. The Virtual VPN Hub guarantees that temporary installations are only charged for the connectivity they actually provide on a day-to-day basis.



WE DELIVER RESULTS

Being able to choose and easily change WAN connections and carriers means unrivaled flexibility. You no longer need to be tied to a specific carrier but can design a network that matches your application. Instead of using expensive dedicated lines from a single provider, you can combine cost-effective consumer xDSL and turn it into enterprise-grade connectivity through bonding.

03 FLEXIBLE COMBINATION OF BANDWIDTHS

Viprinet combines at least two WAN links to form one highly available connection, no matter the type of WAN: mobile, landline, cable, or satellite. All individual bandwidths are added up.

04 SECURE ENCRYPTION

The base of Viprinet technology are secure VPN connections. All data between routers and hubs is fragmented and safely encrypted before transmission.

SAVING COSTS WITH VIPRINET

Compared to an MPLS only connection, a Viprinet site-to-site solution can save up to 80% of cost. This is mainly due to replacing expensive MPLS lines with cheaper consumer grade lines.

The figure shown here applies to a company connecting 15 sites via VPN over a 3 years period. Option (A) is an existing MPLS-only solution with about EUR 1,200 cost per month per site. Option (B) adds a Viprinet solution to the existing MPLS (reduced to 5 Mbps) which is able to bond MPLS with e.g. a vDSL consumer line. That goes with initial cost for the Viprinet hardware (Multichannel VPN Router and Modules), and monthly cost for VLM, a Viprinet Virtual Hub, and connection cost for vDSL. In the end, costs will be reduced by about 44% and at the same time bandwidth will increase to 15 Mbps.

Completely forgoing MPLS by using a Viprinet-only solution, shown here in Option (C), allows for reducing the overall costs by nearly 80% while at the same time increasing the bandwidth.

REPLACING MPLS: SAMPLE CALCULATION FOR A SITE-TO-SITE VPN WITH 15 SITES

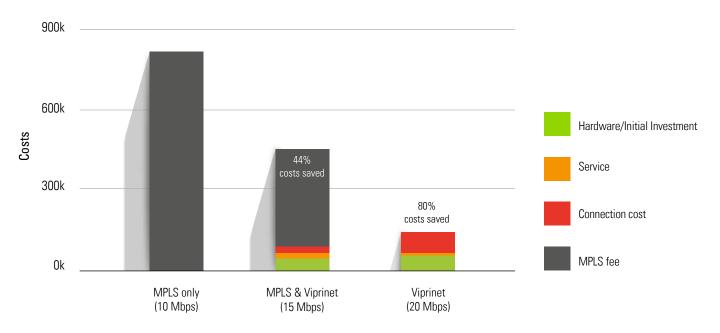


Figure 1: Cost comparison for 15 sites, 36 months. Costs decrease by 44% when combining a former MPLS-only solution with Viprinet and 80% when changing over to Viprinet completely. Also, bandwidth doubles: 10 Mbps with MPLS-only vs. 20 Mbps with Viprinet-only.

INCLUDING COST OF DOWNTIME IN THE CALCULATION

Viprinet's Multichannel VPN Router minimizes outage risks by combining a diverse set of WAN connections. Through bonding multiple types of WAN connections on multiple carriers, your organization is virtually immune to the risk of outage or congestion on any single line.

According to Gartner, average downtime cost per hour is at about EUR 33,000. With Viprinet, you can achieve availability of 99.9% through WAN diversification, whereas with MPLS you typically get 98.5% availability guaranteed. This results in potential outage costs for MPLS of EUR 3.9m per site and per year. For the Viprinet solution, it's EUR 330,000, reducing the economical downtime risk by about 92%.

ECONOMICAL DOWNTIME RISK: 1 SITE, 36 MONTHS

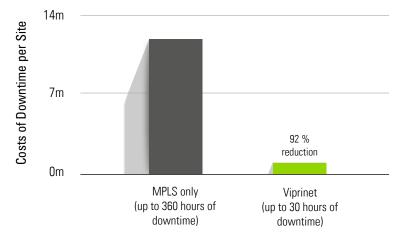


Figure 2: Compared to an MPLS-only solution, a Viprinet-only solution reduces the cost of downtime by about 92%, by increasing availability from 98.5% with MPLS-only to 99.9% with Viprinet-only.



We chose Viprinet technology so that we could use autotuning, traffic accounting, and streaming optimization to ensure the delivery of mission-critical data and be able to use the best performing or most cost-effective providers in any service area without being tied to any single carrier.

ANDY JACKSON HEAD OF IT AT SONARDYNE INTERNATIONAL LTD, UK

Project: Replacing an MPLS network, connecting company sites and ships

FIELDS OF APPLICATION

Do it all. No matter where.

The flexibility of Viprinet technology means it can be used in a vast range of applications. Unlike competing solutions, Viprinet offers three main benefits: high bandwidth, extraordinary availability, and access from any location. Viprinet also enables you to turn low-cost into enterprise-grade connectivity tailored to individual site requirements. Mobile or stationary—if you need fast and secure connectivity, Viprinet is the perfect solution.



RELIABLE E-CASH FOR RETAIL CHAINS

Processing credit cards, monitoring security cameras, training staff, using VoIP telephony, and coordinating it all among 200+ stores? All of that is tough with so many locations, and impossible if the available Internet connection is insufficient even at few branch sites. We have the solution—the same system in all stores, easily adaptable within minutes.

CONNECTING A NORTH SEA RESEARCH STATION

Are your appliances situated on a remote location? Do you have a need for reliable and continuous data transfer? Sure, we can do that. Our products provide enough redundancy at every vital point of a connectivity solution to ensure uninterrupted operation, and they support large maintenance intervals due to fine-grained remote control options.



NETWORKING FOR CONSTRUCTION

Backhoe, drills, building permits, broadband. Nowadays, fast and reliable Internet access for construction sites may be as decisive a factor for the success of a project as architects, workers, material and equipment. With Viprinet, affordable Internet is on site within minutes: Just power on your Viprinet router and start working.



C COOK

LIVE FROM EVERYWHERE: FIELD RECORDING ISN'T JUST FOR SATELLITE ANYMORE

Viprinet technology enabled broadcasters to develop a specialized broadcasting system in a subcompact car. By minimizing the use of satellite with our cost system, bonding of multiple types of mobile connections and autotuning settings, we make affordable, reliable, high-bandwidth video and data transmission possible everywhere.

EMERGENCY RESPONSE, CONNECTED

Video cameras are dispatchers' eyes and ears when first responders arrive on scene. Autotuning algorithms optimized for livestreaming via Viprinet devices, and affordable mobile Internet forming one resilient broadband connection make it possible. Viprinet brings you online. Anytime, anywhere.



HARDWARE SOLUTIONS

The basis of any Viprinet connectivity solution are Viprinet Routers and Hubs. Find here our physical devices, for offices, vehicles, data centers, and many more applications.



MULTICHANNEL VPN ROUTER 310

The Multichannel VPN Router 310 with its passive cooling is the perfect solution to connect branch offices to the Internet or a corporate VPN via up to three Internet connections.



MULTICHANNEL VPN ROUTER 2620

This 19" router allows bonding of up to six WAN lines to form a single, high-performance virtual link. Management features make maintaining large networks easy.



MULTICHANNEL VPN ROUTER 52X

The Multichannel VPN Router 52X provides high bandwidths and reliable data connections for ultra-mobile use cases. This series enables efficient geo-tracking through GPS functionality—ideal for vehicle fleet management.

MULTICHANNEL VPN ROUTERS

Model	Multichannel VPN Router 310	Multichannel VPN Router 2620	Multichannel VPN Router 52X
Form factor	Desktop	19" 1 HU	Portable
Dimensions WxHxD	147 x 130 x 180 mm 5.79 x 5.12 x 7.09 in	435 x 66 x 338 mm 17.13 x 2.6 x 13.23 in	115 x 55 x 195 mm 4.53 x 2.16 x 7.68 in
Weight approx.	1 kg 2.2 lb	5 kg 11 lb	1.3 kg 2.9 lb
WAN interface	3 Slots	6 Slots	4x 4.5G EU/US, 1x Gbit Eth (520) or 4x 4.5G APAC, 1x Gbit Eth (521) or 3x 4G +1x LTE 450 + 1x Gbit Eth (522)
WLAN access point			2.4 & 5 GHz Dual Band
Bonding capacity	Up to 150 Mbps	Up to 400 Mbps	Up to 100 Mbps
Recom'd # of users	25	100	25



Toughlink is a variable high-performance router platform especially suitable for operation even under the most challenging conditions. Customized manufacturing options are available on request (e.g. 2x HDMI video-in/-out, waterproofing).



MULTICHANNEL VPN HUB 2030

The Multichannel VPN Hub 2030 model is designed for large bonding capacities in the enterprise environment. It includes the patented Hub redundancy system to always stay online.



The Multichannel VPN Hub 5010 is the most powerful device in the Viprinet product range. It includes the patented Hub redundancy system and even more features especially relevant to ISPs, e.g. Hub Tunnel Segmentation.

MULTICHANNEL VPN HUBS

Toughlink 250X	Model	Multichannel VPN Hub 2030	Multichannel VPN Hub 5010
2-DIN	Form factor	19" 1 HU	19" 1 HU
178 x 97 x 316 mm 7 x 3.82 x 12.44 in	Dimensions WxHxD	435 x 44 x 235 mm 17.13 x 1.73 x 9.25 in	435 x 44 x 410 mm 17.13 x 1.73 x 16.14 in
3.8 kg 8.4 lb	Weight approx.	3.3 kg 7.28 lb	7.3 kg 16.09 lb
3x 4G + 1x WiFi + 1x Gbit Eth (2500) or 4x 4.5G, 1x Gbit Eth (2501) or 4x 4.5G, 1x Gbit Eth (2502)	Max. power consumption	45 W	140 W
2x 2.4 & 5 GHz Dual Band	WAN / LAN interface	Gbit Ethernet	Gbit Ethernet
Up to 150 Mbps	Bonding capacity	Up to 500 Mbps	Up to 2 Gbps
75	Recom'd # of sites	30	75

HARDWARE SOLUTIONS

HOT PLUG MODULES

Viprinet's Hot Plug Modules may be added or replaced during operation, without any interruption to running data transfers from clients inside the LAN. The modular layout lets you implement any of the most up-to-date WAN technologies into your router.



MOBILE RADIO

- 10-01039 4G Europe/Australia/Africa
- 10-01037 4G Americas
- 10-01048 4G/GPS Americas
- 10-01046 4G Europe LTE 450
- 10-01070 4.5G LTE-A Europe/Americas
- 10-01072 4.5G LTE-A Asia/Pacific
- 10-01071 4.5G/GPS LTE-A Europe/Americas
- 10-01073 4.5G/GPS LTE-A Asia/Pacific



- 10-01010 ADSL2+ (Annex A)
- 10-01011 ADSL2+ (Annex B)
- 10-01050 VDSL2/ADSL2+



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• 10-01060 802.11 B/G/N WLAN CLIENT





• 10-01001 Gigabit Ethernet



Using Viprinet technology to equip our ambulances has not only dramatically improved patient care, but has also led to huge economic savings.

KJELD BROGAARD CHIEF OF AMBULANCE SERVICES AT FALCK DANMARK A/S, DENMARK

Project: Enabling remote diagnosis in emergency vehicles

SOFTWARE SOLUTIONS

ADD MORE SPECIFIC FUNCTIONALITY TO YOUR HARDWARE

Viprinet offers optional software licenses to suit large enterprises and mission-critical applications, focusing on sophisticated solutions for high availability and redundancy of complete infrastructures.



STREAMING OPTIMIZATIONS

Activates optional router features to optimize low-latency noloss applications (telephony, broadcasting, etc.), e.g. better Forward Error Correction.



VIPRINET VPN CLIENT

Bonds 2 Internet connections (e.g. WiFi and LTE) on one device (e.g. laptop) without further hardware and establishes an SSL-encrypted tunnel with a Viprinet network.



HUB REDUNDANCY SYSTEM

Enables coupling of several Multichannel VPN Hubs in order to prevent system outage due to single defective device.



HUB TUNNEL SEGMENTATION

Allows segmenting several different networks on only one Multichannel VPN Hub.



VIPRINET NODE STACKING

Enables coupling of several Multichannel VPN Routers in order to prevent system outage due to single defective device, and to increase available bandwidth.



ENTERPRISE NODE FEATURES

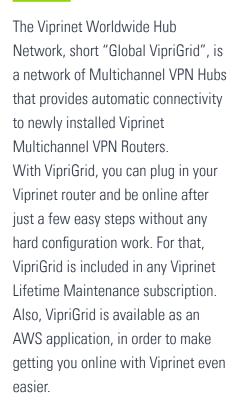
Enables Dynamic Routing, VLAN transport, and prompt of detailed information based on Viprinet MIB for all Viprinet devices via SNMP for Multichannel VPN Routers.

CLOUD SOLUTIONS

USE VIPRINET EVEN WITHOUT THE HARDWARE

Viprinet provides a range of solutions that are especially designed for the use with cloud appliances. Our cloud solutions are independent of physical hardware and can be integrated into any existing IT infrastructure. Get higher bandwidths, extraordinary availability and striking resilience by a mouseclick.







The Viprinet Virtual Hub is a pure software application that works just like a physical hardware VPN Hub. You can operate it as an AWS cloud service or as a VMware virtual machine on any existing server worldwide

Download is free, a small fee applies to each actively used tunnel though. Get more information on our website at www.viprinet.com.

SERVICE & CONSULTING

GET THE ASSISTANCE YOU NEED

As perfect complement to the possibilities of our hardware, software and cloud solution, Viprinet offers a wide range of additional services, including trainings, consulting and a sophisticated worry-free package.

Training

Viprinet offers free-of-cost training sessions at Viprinet headquarters. Each session normally lasts two days, giving detailed insights in Viprinet's multiple configuration options. We recommend participation in training, especially if you want to resell Viprinet or operate large Viprinet infrastructures.

In addition, we offer free webinars designed as advanced product consultations for customers. You can also book Viprinet trainers for technical training and consultations for a small fee, a reasonable alternative for companies with multiple trainees.

Custom services

If you have a custom project that requires features in addition to those in our standard products, we're interested in exploring options with you. We evaluate projects for strategic fit, scale and cost, and a variety of other factors.



Consulting

Being aware of the complexity of our technology, we at Viprinet support our customers in many ways. Viprinet engineers can help analyze existing network infrastructure, evaluate optimization potential, and plan implementation of Viprinet on demand.

We'll gladly accompany customers that wish to migrate a network installation as solution partner. Viprinet technicians have deep experience in implementing complex projects successfully.



With Viprinet, we're able to set up a rugged data connection within hours, wherever needed.

DIEGO SORRENTINO
IT MANAGER AT ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA (INGV), ITALY

Project: Fast installation of a stable Internet infrastructure as emergency relief measure

SERVICE & CONSULTING

VIPRINET LIFETIME MAINTENANCE

Viprinet Lifetime Maintenance is a bundle of software and service components that provides you with the most up-to-date Viprinet products and seamless service at all times. This way, it perfectly complements the longevity and reliability of our products.

With VLM, you get guaranteed access to highquality support via email and phone, Advanced Replacement (ARMA), and the newest firmware and software. A free-of-charge hardware upgrade to the successor model in case of EOS is also available. VLM ensures that whatever happens to your Viprinet installation, you're safe, you're covered, and you have peace of mind.



Currently, Viprinet offers three subscription service and support levels: Bronze, Silver, and Gold. You can easily subscribe to Viprinet Lifetime Maintenance at our online service portal at https://support.viprinet.com.



Bronze provides basic coverage for all Viprinet devices. It puts your devices under maintenance and keeps them up-to-date.



Silver is a worry-free package for your Viprinet products that includes ARMA, software updates and remote assistance.



With Gold, your Viprinet devices are fully protected, with priority support, ARMA with same-day shipment, and free-of-charge upgrade to successor model at EOS.



Get lifetime support and software updates, no-questions-asked advance replacement of defective devices, and a free-of-charge upgrade for a device to its successor model on EOS.



Choose from different subscriptions to perfectly meet your individual requirements, as well as an appropriate billing cycle suiting your needs.



Subscribe once and be covered forever. Manage your subscriptions without any complications via an easy-to-use online portal, and change plan components as needed.



Revitalize your existing infrastructure, achieve a massive performance increase with better firmware, and get products covered again, regardless of their age.



INVESTMENT SECURITY

Protect your investment with full cost transparency and an extended product life cycle which reduces TCO. Also, get lifelong maintenance for your product even if the next generation is already on the market.

Level	Bronze	Silver	Gold
Support (Phone, Email) / No SLA ¹	✓	✓	-
Priority Support (Phone, Email) / 4 hours response time1)	-	-	✓
Minor and major software updates	✓	✓	✓
Remote-assisted device configuration	-	✓	✓
Free-of-charge advance replacement of defective products (ARMA) with 3-day shipment	2)	✓	-
Free-of-charge advance replacement of defective products (ARMA) with same-day shipment	-	-	✓
Free of charge upgrade to successor model on EOS3)	-	4)	✓

- 1) During Viprinet business hours; 1st Level Support by Viprinet Partner
- 2) For Bronze, ARMA is available with additional charge of 70% of the replacement product's list price
- 3) In case of End of Service (EOS) and existing VLM license goes beyond EOS date
- 4) For Silver, an upgrade to the successor model is available with an additional one-time handling fee of EUR 400.00 plus VAT for each device

REFERENCES WE'RE PROUD TO PRESENT



























Our process-oriented approach to construction makes us very successful at the market. We're using IT-based project management tools that are used to direct all planning and construction processes. Thus, our project leaders at the construction sites depend on a secure and reliable Internet connection at any time—no matter where the project takes place. We're very satisfied with the Viprinet routers because they give us security.

CARSTEN BUSSE CEO AT KÖSTER GMBH, GERMANY

Project: Reliable connection of construction sites to the corporate network

CASE STUDIES

In the following, you'll find a selection of the case studies we've done with customers in the past.

Scenarios	Main Setup	Customer
Site-2-Site		
Reliable e-cash in 120+ stores	Router 1610 with 2x ADSL and 1x 3G, redundant Hubs 5010	Detailresult
Building-Sites Online From Day One	Router 300 with a mix of Ethernet, 3G and 4G	Köster
Bringing call centers online	Routers 1610 and 2610 with Ethernet, Hub 5010	KiKxxl
Streaming and Site-to-Site in Africa	Router 1610 and 2620 with Ethernet and 4G, Hub 5010	Foundation Hirondelle
Industrial park going broadband	Router 1610 with Ethernet and 4G, hosted Hub	Secustor
Broadband Internet in vehicles		
Small car, big Internet	Router 500, hosted Hub	tividoo
Situation assessment		
Stable Internet for Earthquake Relief	Router 512, hosted Hub	INGV
Internet for every contingency	Router 500, hosted Hub	Kobenhavns Brandvaesen
Telemedicine & eHealth		
Saving lives by remote diagnosis	Router 500, Hub 2000	Falck
Rapid Aid For Stroke Patients	Router 500, hosted Hub	Universität Magdeburg
Mobile videostreaming		
Live Broadcasting from Everywhere	Router 2610 with 4G, Hub 1020	Qmusic
Mobile unified communications		
Connecting regional offices and ships	Router 300 and 2610 with Ethernet and 4G, Hub 2020	Sonardyne
Mobile radio broadcasting in Norway	Routers 510 and 1610 with 4G, Hub 2000	Radio p4
IT Connectivity in Pro Sports	Routers 300, 510 and 200 apt for on-site conditions, Hub 1020 and VVH	Mainz05



We're a friendly bunch of people doing all we can to provide our customers with a faster, better, and safer Internet connection. Each one of us is a specialist in his area, and together we're unbeatable when it comes to solving impossible tasks. With Viprinet products and our team of in-house specialists and partners, you can be sure to get secure high-performance Internet whereever and whenever you need it.

That's what we at Viprinet live for.

SIMON KISSEL

Founder and Head of Development at Viprinet

ABOUT US

Since 2006, Viprinet has manufactured innovative network devices that help customers achieve better business results by overcoming their most challenging connectivity problems. More than 3.000 customers all around the world put their trust in us. Sustainability is key to our corporate values, which is why we extend product life cycles, use only green energy in production, and make low-energy-consuming devices. All Viprinet products are made in Germany and meet the highest security and confidentiality standards.











Who we are

We are a manufacturer of highly secure and performant network devices based in Bingen am Rhein, Germany, founded 2006 and with currently about 50 employees.

Our values

We aim at making our products and solutions sustainable and secure. We see partners and employees as family and we value skills over degrees.

Our mission

We want to make the world a little more secure by providing a network solution that is almost impossible to crack. With that, we can proudly help keep company secrets secret.

Our expertise

We have and will continue to provide affordable 24/7 secure connectivity for businesses, independent of expensive service level agreements of large network providers.



Community and individuality are both important to us. Our company philosophy is based on trust and attentiveness between all colleagues.



CONTACT US

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