



TrustWay VPN

High-level security for your sensitive networks

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Architect of an Open World™

TrustWay: the high security solution

Industrial spying, eavesdropping, hacking... it has never been so vital to communicate securely in our networked world... and the threats have never been so great. Today, security is rapidly becoming essential for your growth and development. It's vital for the smooth functioning of your business processes, as it is for the confidential handling of sensitive government information, or industrial or commercial secrets. And the same is true, ultimately, for client, partner and shareholder confidence.

As a recognized pioneer and expert in information systems security, Bull is a key player in ensuring the protection of networks, transactions and workstations.

With TrustWay VPN, Bull offers you a high-security solution, geared to providing complete protection of your sensitive networks, and of all their end-points: so you can grow your business activities with total peace of mind.

A tried and tested solution – which has been implemented on some of the largest sensitive networks in Europe – TrustWay® VPN guarantees end-to-end security, protecting you against intrusions and ensuring the confidentiality and integrity of all IP data exchanges, in line with your organization's security policy. Data is encrypted in real time, and transparently as far as each of your individually authenticated users are concerned. With TrustWay VPN, only the designated recipient will be able to access the data sent to them.

With a range of Bull TrustWay VPN devices offering between 6 and 900 Mbps IPSec throughputs, the solution meets the needs of centralized, high-traffic sites just as well as those of regional or branch sites, and even those of individual mobile users. It provides a complete solution for all types of configuration (for links between sites, for example, and for mobile or remote workstations) and can be tailored to any specific needs as required.

TrustWay VPN also supports standard algorithms, as well as government-type algorithms. What's more, Bull has incorporated the very latest technological developments in terms of network interfaces, IETF standards and defense-type security technologies, to support every conceivable type of application.

With TrustWay VPN, your networks are protected by the very highest-level security that your business challenges demand.

Mobile

Integrity

A range of performance levels to suit every demand

TrustWay VPN solutions are powerful and robust, and tailored to the specific needs of all types of organizations. With its optimum processing capacity, throughputs typically handled by modern networks operating at 1 Gbps can be securely handled. What's more, an unlimited number of encryption devices can be freely set up in parallel to meet requirements ranging up to 10 Gbits. The exceptional characteristics of all TrustWay encryption devices make it possible to apply encryption without any significant impact on response times and bandwidth. IPSec tunnels are established instantaneously and IP traffic priority management (data, voice, video,...) is properly handled.

The solution providing the highest level of security available today

TrustWay VPN is a family of IPSec encryption devices designed entirely by Bull to meet the most demanding security and performance requirements. The TrustWay VPN solution uses IPSec, a protocol that provides secure data transport over an IP network with guaranteed confidentiality and integrity for all data exchanged. A hundred per cent developed and produced in Europe, this offering is also Common Criteria EAL2+ certified, and qualified by the French information system security agency, ANSSI (*Agence Nationale de la Sécurité des Systèmes d'Information*). TrustWay VPN offers you effective protection against the risks associated with industrial espionage and intrusion to IT infrastructures. The target of ANSSI-approved security covers both hardware and embedded software, making TrustWay VPN the most secure global solution available today. For total security, the

TrustWay Domain Manager administration station uses a hardware cryptographic resource TrustWay Crypto PCI, itself Common Criteria EAL4+ certified.

Fast and simple implementation: a cost-effective solution

In addition to its security, one of the key advantages of the TrustWay VPN approach is its 'Plug & Play' design and the ease with which it can be implemented, both in terms of installation and day-to-day operation. Implementing TrustWay VPN is simplicity itself. All that is required is to connect the pre-configured TrustWay VPN device to the remote administration station. The appliance retrieves the data for the configuration via a secure protocol and is then ready for action.

TrustWay VPN features a toolset geared to automating all customization, implementation and configuration processes. Installation in situ requires no prior knowledge of security, nor any special skills. Combining these functionalities with the centralized administration provided by the administration station, VPN deployments are very straightforward. No training is required for managers at regional sites, since everything can be administered from a central point, giving you total peace of mind. This ensures cost reductions both in the implementation and running of TrustWay VPN.

In addition, thanks to the optional TrustWay Audit Manager station, you can decide to outsource your VPN, handing it over its operation to a third party – such as a telecoms operator – while retaining total control of your security policy and the capacity to audit it in real time.

A global approach to network security

TrustWay VPN provides the highest level of security available today, and can be simply and efficiently administered, even when your network is outsourced to a third party.

Powerful administration for your network security

Once TrustWay VPN has been installed, you no longer have to be there on-site to run the system. The task of administration can be directed centrally from a single, dedicated security workstation. Rules governing security policies are customized with the help of an ultra-flexible graphical interface.

Breaking down operations into separate activities – implementation, network, security, audit – makes it easier to administer in complete security.

Maximum scalability and longevity

Using the TrustWay VPN range of encryption devices ensures that your investment is safe in the longer term, even if the volume of data exchanged increases, protocols change or cryptographic algorithms evolve. Whatever the trends in network security, whether in terms of the network interface, protocols or encryption algorithms, TrustWay ensures the scalability of your investment, while guaranteeing the best possible level of security thanks to its built-in capacity of secure software updates.

PERSONALIZATION CENTRE

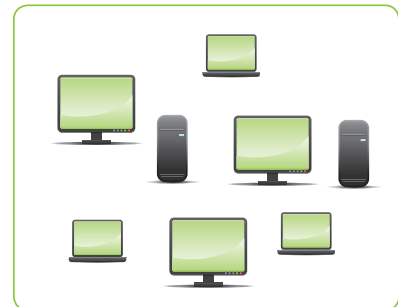
The TrustWay advantage
Personalization can be outsourced to a third party



KEY GENERATION CENTRE (TKC)



HEAD OFFICE

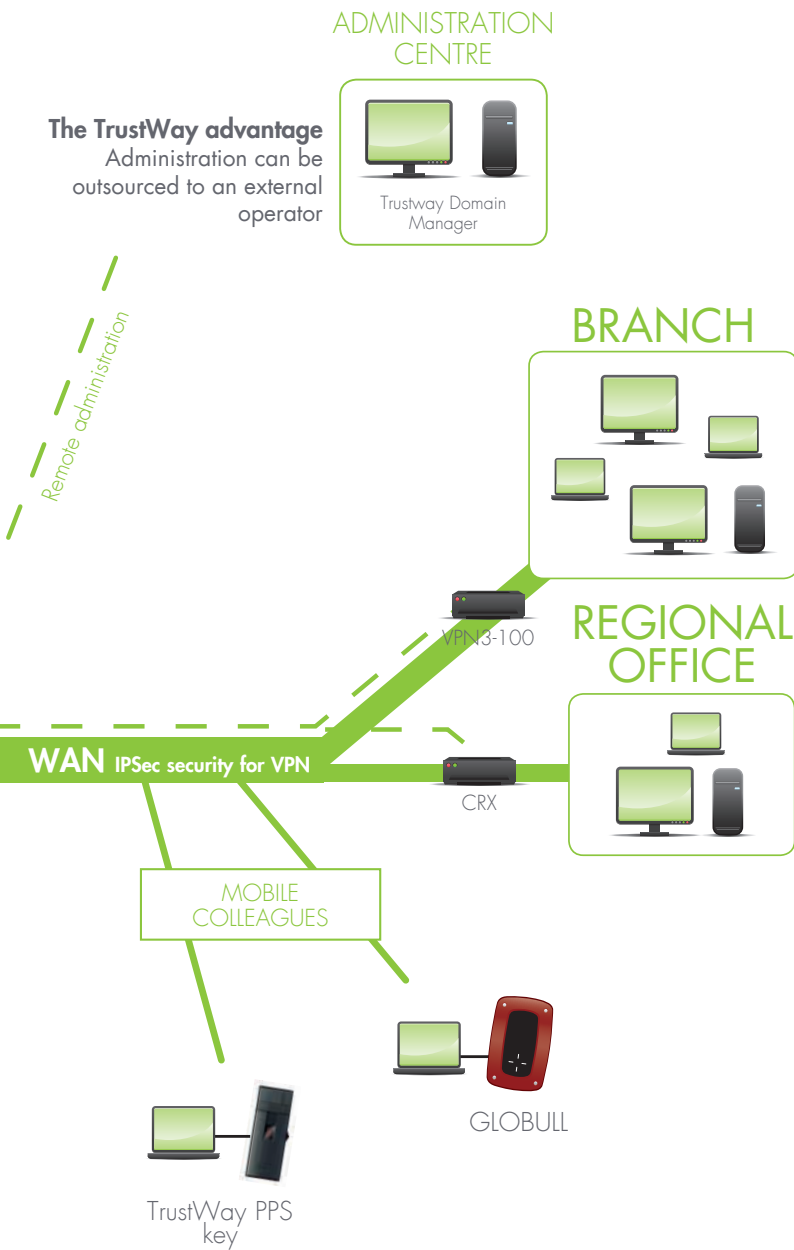


VPN3-600



The TrustWay advantage
The outsourced VPN can be audited with the TAM

SECURITY AUDIT CENTRE



The TrustWay advantage
Administration can be outsourced to an external operator



BRANCH



REGIONAL OFFICE



WAN IPSec security for VPN

VPN3-100

CRX

MOBILE COLLEAGUES



TrustWay PPS key



GLOBULL

Drawing on the support of major networks

The TrustWay VPN solution can integrate easily with third-party SNMP network supervision systems. A set of implementation, administration and supervision tools allows you to manage a vast network of up to 20,000 VPN appliances, while keeping individual operations totally separate from one another. Finally, High-Availability (HA) options ensure your management system will run around the clock, year in and year out.

Keeping control of outsourced system security

Where all or just part of your security management is outsourced to a third-party operator, it is vital to have the option of carrying out a security audit at any time, to check that your security policy is being correctly applied. The TrustWay Audit Manager (TAM) station is an exclusive TrustWay innovation, ensuring you are in control at all times. Even if you have delegated the operational management of your network, you will still be able to verify at any instant in time the overall administration of your security.

A complete range of VPN solutions

Encryption devices and software

TrustWay VPN3-100, VPN3-300 and VPN3-600: security for central sites and subsidiaries

The TrustWay VPN3 appliance secures the large and medium volume data flows typical of central sites, regional branch offices and subsidiaries. It includes two Ethernet 1 Gbps interfaces. In terms of cryptographic performance it delivers up to 900 Mbps in IPSec (AES 256-bit), with an addressing capability accepting up to 20,000 IP endpoints, with no limit on the number of tunnels.



TrustWay VPN Client: security for mobile users

TrustWay VPN Client is a software component for PCs that provides a secure link for mobile users, so they can freely exchange data securely with their organization. This architecture is designed so it can equip mobile user workstations with the VPN Client application in order to secure the flows exchanged with remote sites, which are protected by a TrustWay VPN3 appliance. Mobile users authenticate themselves by entering a CIK PIN directly on the TrustWay USB secure token (globull which offers 60 GB of AES 256-bit encrypted mass storage or TrustWay PPS2 which offers 2 GB of AES 256-bit encrypted mass storage). This means that when you establish remote connections from mobile PCs (via Wi-Fi, ADSL, RTC, GPRS, 3G...) they will also benefit from the highest levels of security.

TrustWay CRX2 and CRX3: security for branch offices

TrustWay CRX2 and CRX3 appliances are particularly well-suited to branch offices using medium-flow network links. They can handle an IPSec 256-bit AES throughput of 16 to 30 Mbps, with an addressing capability of up to 400 IP endpoints.



TrustWay CRX: security for your home-office

This compact appliance is ideally suited to applications of the 'Branch office' and 'Home Office' type that use low volume network links (xDSL). TrustWay CRX features an IPSec AES 256-bit throughput of 6 Mbps with an addressing facility that accepts up to 50 IP endpoints.



Administration

TrustWay Domain Manager (TDM)

This extremely powerful administration system allows the user to define and manage a set of TrustWay VPN appliances, no matter how large a network is involved. It can support up to 20,000 TrustWay VPN encryption devices. TrustWay TDM also features key management resources needed to ensure the proper functioning of the TrustWay VPN encryption devices and TrustWay VPN Client software. In addition, the TDM can be managed by different administrators or groups of administrators, each of them authenticated by the TDM's cryptographic features using their own smart card.

Personalization

TrustWay Personalization Station (TPS)

The TrustWay Personalization Station (TPS) is a workstation which enables every encryption devices to be configured centrally before they are installed on-site. This guarantees that on-site installation can be carried out without the need of any security clearance for the employee who performs the installation.

TrustWay Key Generation Centre (TKC)

The TrustWay Key Generation Centre (TKC) is a n optional dedicated workstation that generates all the keys needed by the TrustWay VPN architecture. It is either integrated into the TDM, or into a dedicated workstation known as the TKC station. The TKC is equipped with the TrustWay Crypto PCI cryptographic hardware resource, which is Common Criteria EAL4+ certified and ANSSI qualified. This workstation creates and distributes – from a single,

central point – all the cryptographic keys used by the full set of TrustWay components. The TKC workstation is a platform that is not linked into the network, but is exclusively dedicated to the task of generating the keys deployed in the TrustWay VPN devices.

TrustWay innovations

Audit

TrustWay Audit Manager (TAM) is an audit station for TrustWay VPN devices installed and in operation. It is an optional workstation that audits and supervises the security policy implemented on the network. TrustWay Audit Manager is needed by any administrator who wants to carry out security audits in real time to ensure that the security policy defined by the organization is being properly respected by the operator, for example, in an outsourcing contract. Several TrustWay Audit Manager units can be installed at different points on the network to be supervised.

High-Availability (HA)

TrustWay Domain Manager and TrustWay Audit Manager are both available in 'high-availability' versions (TDM HA and TAM HA), offering unprecedented levels of performance and redundancy that match the administration requirements of very large networks. Up to 20,000 TrustWay encryption devices can be supported within one or a number of cryptographic domains.

10 good reasons to choose TrustWay

- 1. Unparalleled security:** TrustWay Virtual Private Networks (VPNs) offer EAL2+ Common Criteria level certification.
- 2. Performance:** From 6 Mbits to upwards of 10 Gbits, the TrustWay VPN range supports all throughputs and all network architectures.
- 3. Simple to manage:** Implementation, networking and security operations are separated out into self-contained systems to facilitate administration in total security.
- 4. Easy to implement:** Installing and running TrustWay VPN solutions is made easy by the use of a dedicated central configuration workstation.
- 5. Flexibility:** The TrustWay VPN range adapts easily to every type of architecture and network protocol.
- 6. Scalability:** TrustWay VPN can be securely updated as the latest technologies evolve, facilitating hardware and software migrations.
- 7. Third-party support:** Thanks to its audit station, only TrustWay allows you to outsource your VPN along with its associated security and administration to an external operator while retaining full control of security overall.
- 8. Reliability:** TrustWay solutions are hundred per cent designed and developed by Bull in France. This means that you – the client – can take advantage of all the benefits offered by a tried and tested product.
- 9. Experience:** With TrustWay and Bull, you benefit from our long-standing experience and commitment to security, gained in particular by working alongside our clients in government and highly sensitive industries.
- 10. Exceptional credentials:** TrustWay is already providing high-level security for the largest IP VPN in Europe.
Could it do the same for yours?

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