QGROUP GmbH

Your Security Our Business

QGroup GmbH is an IT security company, providing military grade data protection solutions for commercial use. The loss or leakage of this type of data is often critical to the success or the life of the organization. The danger extends to all individuals, authorities, companies and institutions that depend on such "Mission Critical Data".

QTrust® is a holistic, modular end-to-end solution for data security. Starting with protection of the operating system itself, it also protects administrator and biometrical identification data, and the session recording, logs, applications and can protect other IS/IT infrastructure including telecommunication and IoT. The QTrust® QEE solution provides a secure application platform. Unmodified IT applications can be easily installed and run securely on this platform.

The QTrust® platform employs secure containers to ensure process separation and enforce those rights that are explicitly granted to each user. Consequently, no hacker or even an administrator can jump to unauthorized compartments or remove evidence of their tracks through the system. The digital footprints they leave of any unauthorized transaction are secured and available to auditors. Alarms can be linked as well. Unauthorized access of the systems data, logs and any isle-hopping from one server to the next is recorded, even though isle-hopping is only possible by authorized administrators.

QGroup enables the highest and most reliable IT security available in the civilian market.

QGroup's QTrust® is a secure execution environment – QEE – and on the PitBull® operating system with hundreds of secure, isolated compartments. Traditional IT systems are frequently accessed or hacked by users with administrative rights through doors another administrator left open by mistake.
This may give them full access to the system, files and folders and rights restricting access cannot be enforced. There is no guarantee that the person accessing the data is actually the owner of the user credentials that grants these access rights. All-encompassing-rights in traditional systems pose a huge risk and are easily misused when credentials of administrators get compromised.
Such rights might enable the user to view, copy/paste, change, delete and create any data, including changes to their own administrative rights, applications settings and log files that are supposed to track user activities. QTrust®, with QTrust® 2go multi-factor biometric authorization, restricts access and assigns user access and other attributes to each compartment.
The multi-factor biometric identity check of each user, in combination with integrity and access controls, significantly reduce the risk of unauthorized viewing, changing deleting, or copying data intentionally or "by accident." An unauthorized intruder would find himself fully restricted in a closed and controlled compartment.

Knowledge and experience that has been gained over the past 21 years in military and intelligence environments allows QGroup to provide straight forward and unique IT security for the civilian market. The EAL4+ Common Criteria Certification of the PitBull® operating system, along with FIPS 2.0 compliance, QTrust® has become the solution of choice for many customers in the military, industry, private companies, R&D, hospitals, energy, and manufacturing,

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QGroup understands that digital assets, sensitive data, production and IS/IT, as well as IoT and telecommunication, is mission critical if unauthorized access endangers life or mission. These things are obviously critical in the military and intelligence. But hospitals and utility organizations know very well that their data and systems are also life-critical. In fact their mission is the life of people.

For cloud service providers, QTrust® provides the necessary control and level of trust for high-end outsourcing decisions. It´s experience and expertise allows QGroup to provide outstanding deep forensics, analysis and compliance checks for decision support around attacks and threats.

QTrust® for upcoming new server technologies, artificial intelligence and IoT platforms, as well as advanced cloud services, are, by definition, areas of a high concentration of sensitive data, QTrust® provides top-end IT security for these services.

QGroup supports the legal protection of its customers with unique and best in class services and solutions. A worldwide escalating commercially and politically motivated hacking with sophisticated structures has gained the full attention of legislators, regulators, and other authorities. The general weakness of data protection becomes obvious when traditional IT security cannot prevent the loss of data to hackers.
Fortunately, the unique QGroup solution provides strong protection and can prevent data loss. When data is lost, or corrupted, the required time-frame for a response is emergency-like short. On average, it takes traditional IT security systems about 6 weeks to recognize that a breech has occurred. Thus, they fail to deliver the evidence in a timely manner. The original military solution based on QTrust® was designed to prevent the data loss but if a violation occurred, quickly provide all the information necessary for crafting an appropriate response.

QTrust® is designed to prevent data loss. However, if a hack should succeed, QTrust® restricts the hacker and damage to only a single compartment. Knowing you have full control and have detailed knowledge about the event and the hacker, along with the restricted amount of data that can be accessed in any single container, should prevent authorities and media from overreacting. Making smart use of this knowledge, PR/Communication and Crisis Managers can stay one step ahead and quickly get the situation under control.

Besides a good IT security management system, business continuity, risk, and crisis management is the key to surviving and limiting liability. To do it right requires reliable tools. But how can you prevent liability if there is no knowledge about the person who is acting in a criminal or malicious fashion? QGroup provides reliable end-to-end identification of the user with its unique 3-factor biometric authorization. System administrators always know the true identify of users and what that user was doing. Passwords simply do not identity users. What actions the hacker took and what was done to the system is recorded in detail in the log-session file. This audit file cannot be altered, edited or erased.

QGroup solutions have always been based on military requirements: non-hackable, reliable systems, supporting fast and straight forward decisions. This has made the QGroup approach, beginning in the year 1997, modular and comprehensive. Today, QTrust® provides the best-practice since it is based on a secure foundation, which traditional operating systems cannot deliver. The total QTrust® system solution (consisting of hardware and software) can also be rapidly installed in emergency cases for highly critical data and infrastructures. If it is already installed, the solution can be extended to cover other sensitive data, IS/IT structures as well as manufacturing, energy and telecommunication data and functions. The crisis and recovery manager can than investigate and recover behind a secure wall. QGroup can also support the forensics investigation and develop detailed reports.

The QTrust® IoT solution extends the QGroup product portfolio for holistic IT security to new markets. For example, we can protect complex surveillance centers in cities, ensuring that critical video evidence is not erased. Municipal utility systems and other critical civil infrastructure needs similar protection. This is a tremendous step forward for QGroup, since offering holistic solutions on a flexible and high security IoT platform addresses the real-time security demands of those centralized and extremely critical IoT infrastructure. In this environment, QGroup's OEM partnership with HPE allows highly efficient replacement of old server infrastructures, while QTrust® IoT integrates the full IoT management of hundreds and thousands of cameras, sensors, machines, devices and people.

QGroup is a Certified OEM Partner of Hewlett-Packard Enterprise (HPE). This partnership allows QGroup to offer QTrust® solutions globally by taking advantage of the logistic and administrative resources of HPE. In Europe QGroup is also a Center of Excellence and exclusive distributor of PitBull®, the trusted operating system from General Dynamics Mission Systems Group.

QGroups Reference Customers include many customers in the area of military, government as well as industrial area.

QGroup is owned by
Thomas and Melanie Blumenthal.
The State of Hesse, Germany,
is an investor.

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SecurITy

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