

The perfect partner for data protection

As a security specialist with six decades of success behind it, **Crypto AG** is an expert in keeping sensitive data secure. But, the company argues, security is about more than just the latest technology – it is also a matter of trust.

Crypto AG began creating cryptographs to protect diplomatic dispatches 60 years ago; it is now a world leader in information security. Swedish engineer and visionary Boris Hagelin founded Crypto in Zug, Switzerland, in 1952 as a proverbial garage start-up, and since then it has evolved into a large enterprise with around 300 employees.

Crypto has decisively shaped the rapid progress in its industry, always leading the way technologically by developing solutions for information security. The past 60 years have seen cryptographic technology progress from mechanical solutions to electromechanical ones, and from there to electronic hardware and software. Phone, radio and fax were first supplemented by data applications such as email and text messaging, and then later by the entire array of social media applications such as Twitter, chats and Facebook. After the era of mainframes and the age of desktop PCs, today's trend is towards greater mobility.

The average individual carries 1.3 mobile devices on their person, most typically mobile phones and tablets. Furthermore, the rate of data transmission is increasing at a greater than exponential rate. It used to be measured in hundreds of characters per second; now it is gigabytes per second. In the near future it will be terabytes per second. Complex internet applications are also on the rise, especially those geared to public authorities and governments. E-government and e-money are more popular than ever before.

Moving with the times

At Crypto, these advances have always triggered expansions into new activities. Not only has the firm had to anticipate advances in IT, it also had to recognise new threats as they arose and analyse them. Suitable countermeasures also had to be identified. Crypto has used these opportunities to focus on global and comprehensive security solutions.

These extend from analysis with security assessments to project implementation and execution, and include periodic system checks on a contractual basis. Services have become even more important as part of the overall range. Trustworthy IT component vendors come into play for firewalls, safe locks and other external elements.

With this approach, Crypto is increasingly acting as general contractor and providing complete solutions from one source. In doing so, it internalises its customers' ways of thinking and working, while advising them to acquire a security solution from a single source instead of using isolated, stand-alone



Cryptographic technology is going mobile: the average person carries 1.3 mobile devices with them, primarily phones and tablets.

encryption units. A solution of this type involves an in-depth assessment and careful training of end users. Complete system implementation can also be included in the package, along with contractually agreed maintenance services.

Crypto has defined solutions based on sector and technology. These are modular in design and have specifications set with the customer to meet the latter's needs.

Of course, Crypto also supplies its clients with customised solutions featuring an algorithm that the customers profile themselves, and IT security architecture that incorporates multiple lines of defence. With this type of customer-specific algorithm base, organisations are assured of perfect cryptographic protection and the enforcement of their security policy. The solution is adapted to the user's needs.

Security forever

A partner can only provide security if it is fully trusted. Crypto is precisely this kind of partner for civilian and military authorities the world over. It has won this trust by delivering 60 years of rock-solid work. The fact that Crypto is a Swiss company is also a relevant factor for many customers.

Trust is born of continuity. Since its founding in 1952, Crypto has focused exclusively on the information security field, and will continue to do so in the future. ■

Further information

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