

Cyber Security is Achievable

achelos presents automated test suites for
TLS and IKE network connections
at it-sa in Nuremberg



Secure TLS-/IKE network connections through accurate implementation of cipher suites

Image source: © achelos GmbH

Nuremberg/Paderborn, October 10, 2017 – From October 10 to 12, achelos GmbH will be presenting at it-sa 2017 in Nuremberg, the largest IT security exhibition in the German-speaking region.

The security experts from Paderborn are exhibiting test suites and solutions on the joint booth with TeleTrust, the IT Security Association Germany, in hall 10, booth 409.

The number of hackers is increasing rapidly

In the status report 2016 on IT security in Germany, the Federal Office for Information Security already lists more than 560 million malware

types. This number indicates that IT security will also be a hot issue at it-sa 2017.

Cyber security can be achieved through secure network connections

achelos will present innovative technical products for end-to-end security to professionals from security-relevant application fields. The focus is on the security of **Transport Layer Security (TLS)** and **Internet Key Exchange (IKE)/Internet Protocol Security (IPsec)** network protocols. They are recognised standards of secure networks. Their implementation and configuration is complex and offers loopholes for attackers if incorrectly implemented.

achelos test suites offer protection from cyber attacks

In close collaboration with an accredited testing laboratory, achelos has developed Qumate.Testcenter. The TLS and IKE/IPsec test suites empower manufacturers of network components, evaluators and certifiers, corporate IT departments, system operators or state institutions to reveal security loopholes in their implementations, avoid IT configuration errors and check their conformity with security guidelines required by the Federal Office for Information Security. Detailed test reports provide audit-proof documentation of the results. Checks are performed, for example, on the entire structure of the TLS or IKE connection, also covering mutual authentication.

To do so, the test procedure uses the comprehensive manipulation options provided by the test suites and executes an erroneous behaviour in order to establish a robust authentication procedure.

Visitors to the it-sa can experience the achelos test suites live at the booth and obtain more information on the following topics:

- **Common Criteria (CC):**

achelos supports its customers with certified CC evaluators, comprehensive services and proprietary test tools in their effort to comply with the common criteria requirements (internationally applicable criteria catalogue for IT security).

- **Qumate:**

The flexible test center from achelos supports and automates tests in application fields relevant to security.

For more information about **it-sa 2017**, go to: www.it-sa.de

About achelos GmbH:

achelos is a software development company and independent of manufacturers, which delivers innovative technical solutions covering conception, specification, development, integration and testing for micro-processor chips, security chips, and embedded systems in security-critical application fields. These include the ID card, the electronic health card, security in car-to-car communication, and public key infrastructures.

A key focus is security and prevention. achelos produces test concepts for conformity-assessment with technical specifications and BSI guidelines, and prepares evaluations and certifications according to security standards such as Common Criteria, PCI-DSS or FIPS. The quality assurance system Qumate Testcenter, developed by achelos, is a powerful test-management tool suite for verifiable end-to-end security.

The team consists of recognized chip-card technology experts who have already designed, developed, and managed projects on a worldwide scale. References include electronic ID systems and electronic health cards, digital tachographs and driving licenses, smart cards for banking and the digital signature.

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