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the wireless competence center

profile

***acticom* develops innovative and professional software solutions for wireless networking. A high value is set on systems for wireless infrastructures and wireless Internet access. We offer a "wireless competence center" for mobile Internet- and networking solutions.**

Having very special technical competence within the area of communication networks and by the closeness to research and industry, *acticom* is in a position to react very quickly and flexible on trends and technological innovations showing up to generate own product innovations, which benefits *acticom's* customers. Flexibility and know-how are the strengths of *acticom*, which are willingly occupied by the customers, as for example the Siemens AG.

The product portfolio addresses both operators of small hotspots and wireless IP-providers (ISPs). Manufacturers of UMTS equipment are taken to *acticom's* robust header compression solution, which is a solution that meets all requirements for mobile terminals and cellular networks of the upcoming generation. The products are supplemented by individual development, consulting and product oriented research - in terms of *acticom* professional services.

motivation – everybody goes wireless.

In the past decade new wireless technologies have gained much interest: at the same time with the development of 3G technologies IEEE802.11 Wireless LAN and Bluetooth were already deployed. WLAN offers more than 100 times the capacity of 3G for data services within the license free ISM band.

Wireless LAN addresses the increasing users demand for higher bandwidth and promise an adequate wireless data access raising the available bandwidth from 11Mbps up to 54Mbps in the near future. Offering WLAN based wireless access requires integration of missing or incomplete modules like enhanced security, seamless micro- and macromobility, authentication, billing, and application-adapted quality of service support.

By a set of outstanding software modules *acticom* offers security, mobility, authentication, and quality of service support for WLAN networks. These modules allow a tight coupling with existing 3G networks but also enables networks operators to run standalone wireless access networks solely based on WLAN technology.

With our ongoing work *acticom* is already anticipating the transition from 3G to 4G technologies, leaving behind the cellular constraints and introducing adhoc capability.



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products

hotspot solution

Wireless network access for enterprises, internet access by implementation of "hotspots" and the SOHO/private szenarios are completely covered by *acticom* hotspot solutions. Security, privacy and performance are particular features of the offered products.

features of *acticom* hotspot solution:

- Secure Authentication (IEEE 802.1x)
- Tap-proof communication on the wireless channel (Encryption, will be available in future releases)
- Location Based Services for innovative services in hotspots
- Service discovery and announcement
- Mobility support and management in enterprise installations
- The modular software concept allows individual cutsomization and offers customers secure investment by scalability

***acticom* robust header compression solution**

Cellular networks of upcoming generations utilize robust header compression ROHC to reduce signalling overhead following RFC 3095. *acticom* is the first company that exclusively offers an efficient and conformant ROHC implementation for UMTS manufacturers in europe. For further information please contact: *rohc@acticom.de*

***acticom_*rohc features:**

- header compression for RTP/UDP/IP; UDP/IP; ESP/IP header
- all ROHC-modi for compression and decompression: unidirectional, bi-directional optimistic mode, bi-directional reliable mode
- packet creation and parsing
- repair mechanisms
- portable to multiple platforms

professional services

Customers in need of particular requirements utilize *acticom's* "professional services". Consulting and implementation up to prototyping offer access to the newest innovation and results on the area of wireless communication networks.

- Characterisation and measurement of IP flows (see traces at *acticom*. info or download PDF information brochure)
- Performance evaluation of Robust Header Compression ROHC (RFC 3095)
- Consulting for wireless infrastructures "hotspotting"