

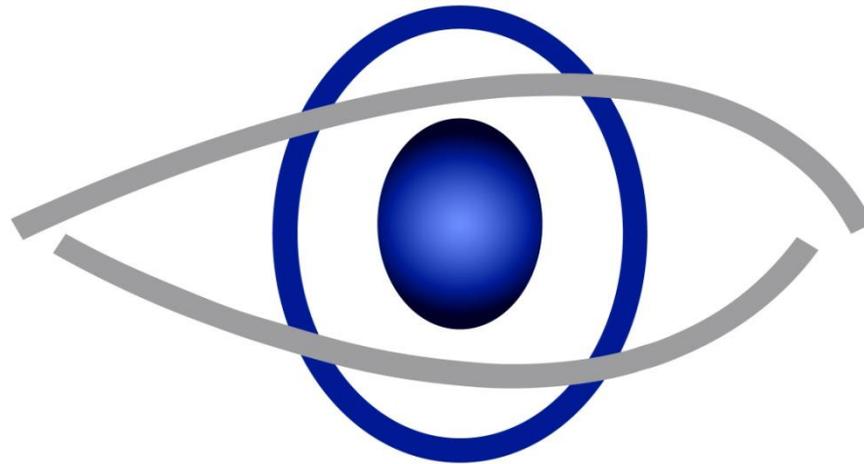
Your security...
... Our Mission

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- ⦿ Karsten Nohl and Jakob Lell introduced at BlackHat 2014 in Las Vegas the danger of BadUSB attacks.
- ⦿ This concept represents the manipulation of a USB's firmware with the intent to jeopardize a computer's security.
- ⦿ USB port is not reserved anymore only for mice and keyboards. Now it is used for many more devices, from charging to storing.
- ⦿ Something as small and innocent as a jump drive can, once connected, upload a virus, redirect internet traffic or pretend to be a keyboard to manipulate sensitive files.

Short Introduction of Ramon Mörl

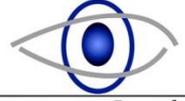
- ◁ 30 years of experience in IT security
- ◁ Leading activities in projects for companies such as HP, IBM, Siemens, ICL and Bull in Belgium, Germany, France, Italy, Austria, Switzerland and the USA
- ◁ Worked as an independent evaluator and consultant for the European Union, particularly in the area of ECMA and ISO standards for IT security
- ◁ Since 2002 managing director for itWatch GmbH



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Complete chain of trust: Technology

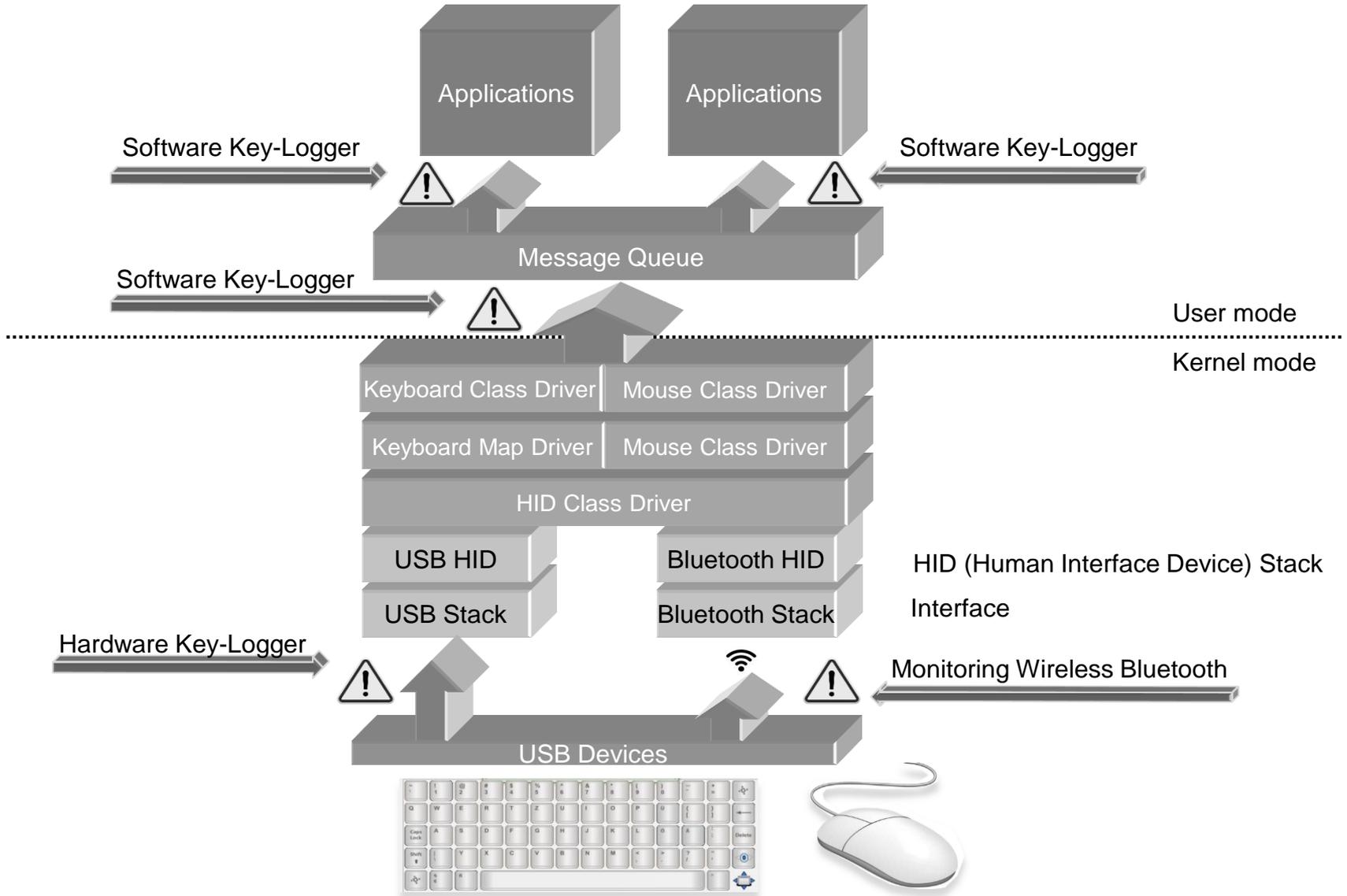
The example of the mouse with "additional function"

Input devices

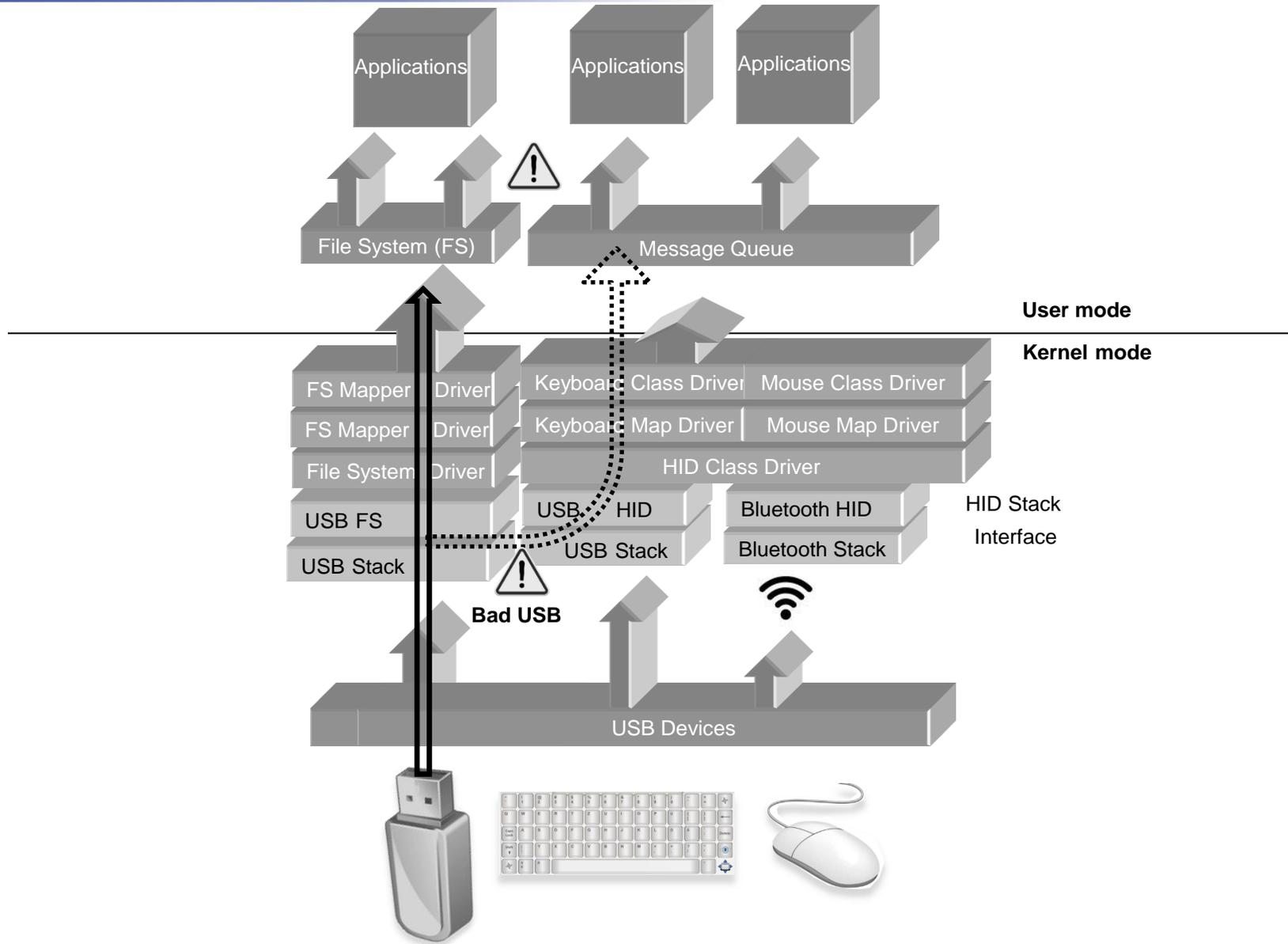
- ⦿ A nice mouse is additionally a faked keyboard – (see BadUSB at Black Hat 2014 in Las Vegas)



Processing of submissions under Windows (simplified illustration)



Points of attacks



What is Security really?

A secure car:

- 👁️ Belts
- 👁️ Airbags
- 👁️ Mirror
- 👁️ ABS
- 👁️ Light
- 👁️ ...



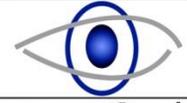
Despite of
All that

You won't
Go Diving

“Secure Keyboard” consists of everything what is needed to fend attacks which are addressed by “BadUSB”.

These include:

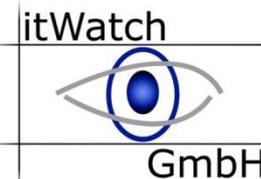
- 👁 The profound authentication of devices,
- 👁 protection against double devices,
- 👁 freezing of a hardware sets at the time of delivery,
- 👁 prohibition of unknown processes
- 👁 and the secure transmission of passwords past the vulnerabilities of the operating system straight in the application or login, so that hardware and software keyloggers don't have a chance.



Conclusion & outlook to the future

- Many products and process models provide supposedly secure application, however "the **last gap**" remains often ignored by IT security.
- This last gap comprises various facets, such as legal certainty and involvement in the organization and technology. This includes the "**Secure Keyboard**", the automatic recognition of **IT-Risks** at the workplace and the reporting and management of these risks in defined and also for human understandable processes, which integrate the user in real time with mandatory dialogues.
- During all activities the user is supported through **permanent identification and separation of critical behaviors** on the basis of a software **patent**. itWatch provides several new solutions which close the critical last gap. The new products are an addition to the traditional topics of the **itWatch Enterprise Security Suite** including Data Loss Prevention (DLP), Endpoint Protection and encryption of mobile data.

itWatch Enterprise Security Suite



DeviceWatch	Device control	PrintWatch	Print control
ApplicationWatch	Application control	AwareWatch	Security awareness in real-time
XRayWatch	Block and audit files and content	ReplicationWatch	Secure data replication
PDWatch	Mobile encryption, both locally and centrally	CryptWatch	Encryption on unprotected third party computers
CDWatch	Media-based protection	RiskWatch	Risk assessment with one click
DEvCon	Cascading device event console	LogOnWatch	Securely pass passwords on applications and login
ReCAppS	Virtual lock	MalWareTrap	APT detection and isolation
DataEx	Secure deletion and formatting		

Partner of itWatch



Microsoft and itWatch work hand in hand - Together, the companies present the secure Windows 8 Tablet

f.l.t.r.: **Ramon Mörl** (Managing director of itWatch GmbH) and **Michael Kranawetter** (Head of Information Security, Chief Security Advisor Germany, Microsoft Deutschland GmbH, Unterschleißheim)



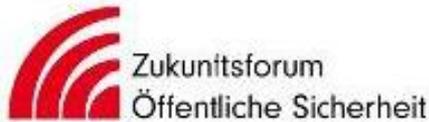
Sponsored by BMWi: Joint research project of itWatch and WIBU Systems

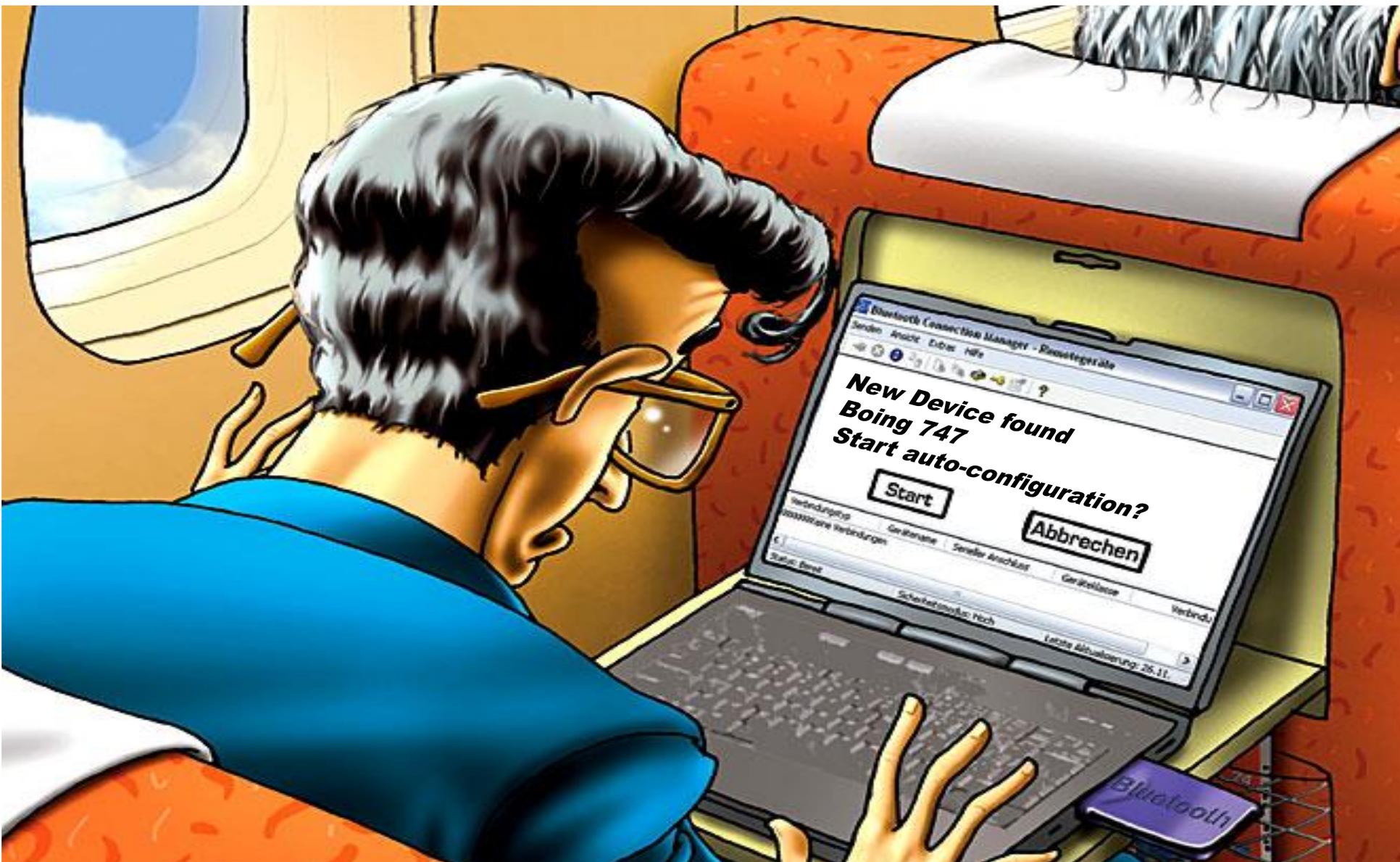


Together with T-Systems and other manufacturers itWatch has developed a hardware-independent laptop and tablet, which are approved by BSI VS-NfD.



itWatch actively supports





Thank you very much for your attention! ct 1/2003