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Introduction

- Network Access Control (NAC) approaches promise to secure the dynamic access of mobile endpoints to networks.
- In addition to an user authentication, the integrity status of the respective endpoint is measured and verified.
- NAC agents on the respective endpoints are used to obtain and communicate the integrity measurements.
- A common threat for agent based NAC approaches is malware that forges the integrity measurements, and thus by-pass any protecting measures of the NAC solution.
- ► This threat is known as Lying Endpoint Problem (LEP).
- tNAC aims to mitigate the LEP by leveraging Trusted Computing functions in conjunction with Trusted Network Connect.

Technological Basis





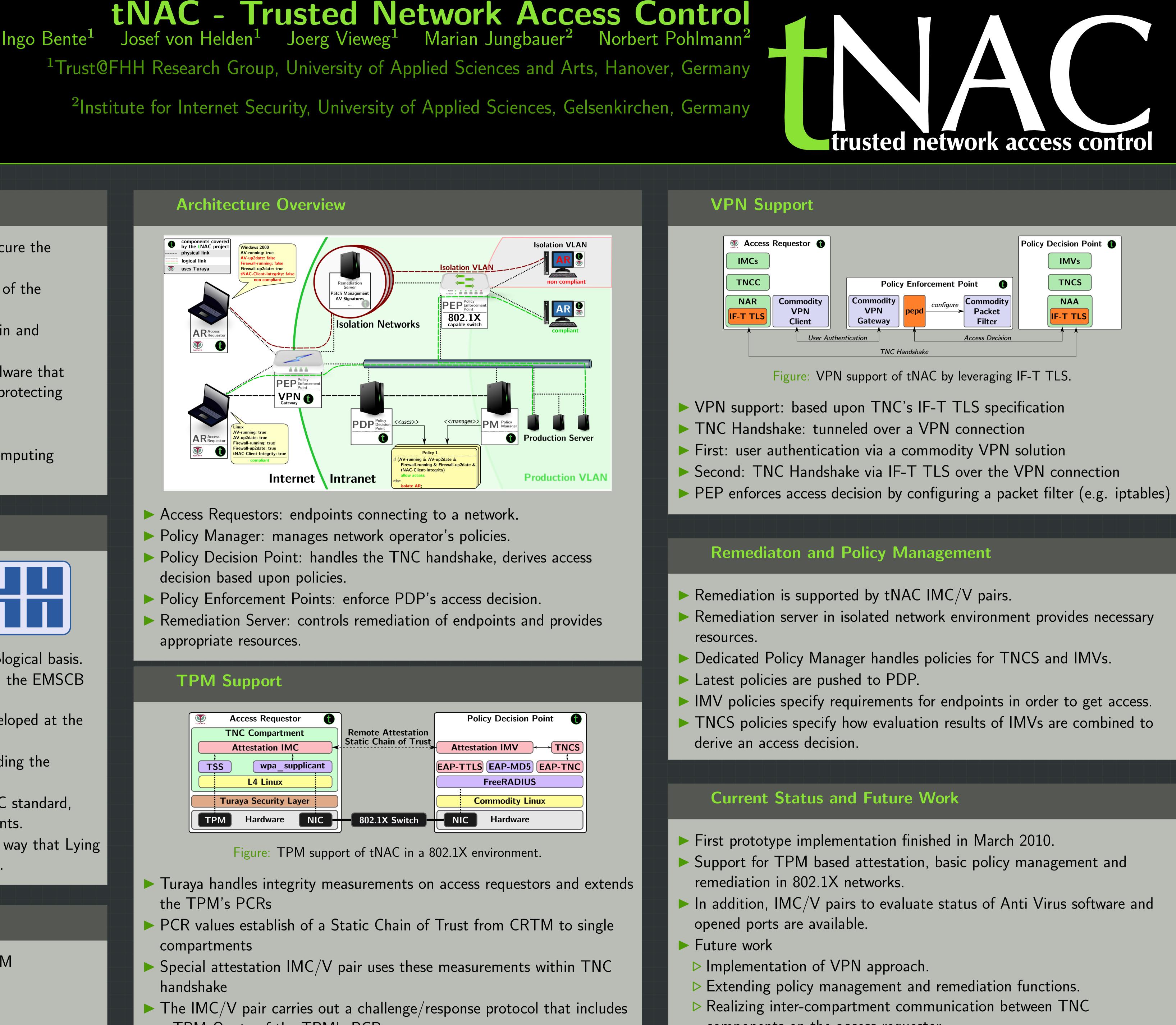
- ▶ The results of two research projects constitute the technological basis. Turaya, the secure operating platform, developed within the EMSCB project.
- TNC@FHH, the open source TNC implementation, developed at the University of Applied Sciences and Arts, Hanover.
- Turaya offers general Trusted Computing functions, including the measurement and isolation of compartments.
- TNC@FHH provides NAC functions compliant to the TNC standard, including assessment, isolation and remediation of endpoints.
- tNAC aims to integrate Turaya and TNC@FHH in such a way that Lying Endpoints are securely detected during a TNC handshake.

Features

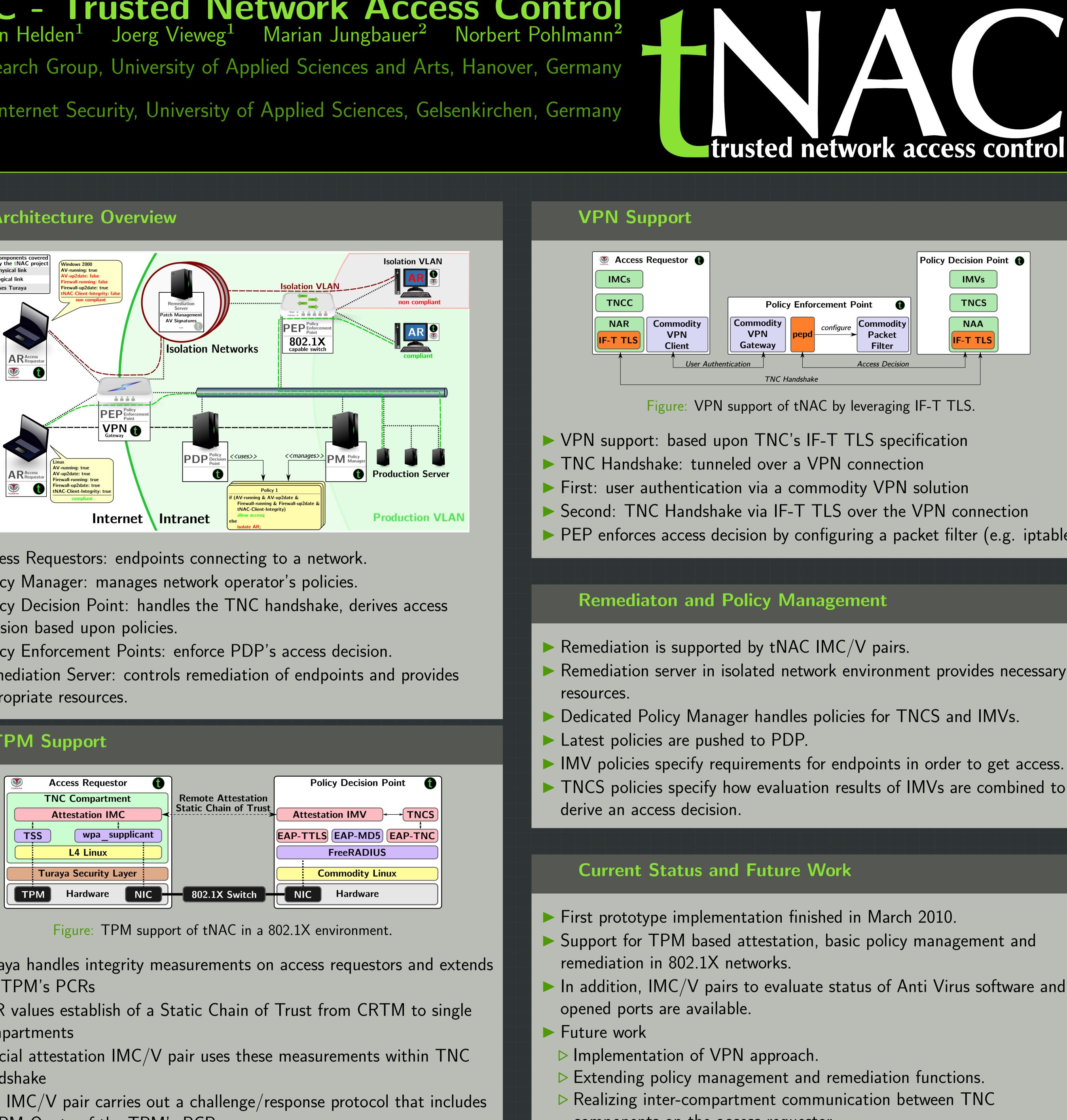
- Compliance to TCG technologies, including TNC and TPM
- Secure detection of lying endpoints
- ► TPM secured assessment
- (Semi-)Automatic isolation and remediation
- User-friendly policy management

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- decision based upon policies.
- appropriate resources.



- the TPM's PCRs
- compartments
- handshake
- a TPM_Quote of the TPM's PCRs.
- ► Thus, Lying Endpoints can be detected.

components on the access requestor. ► Final version expected for June 2011.