

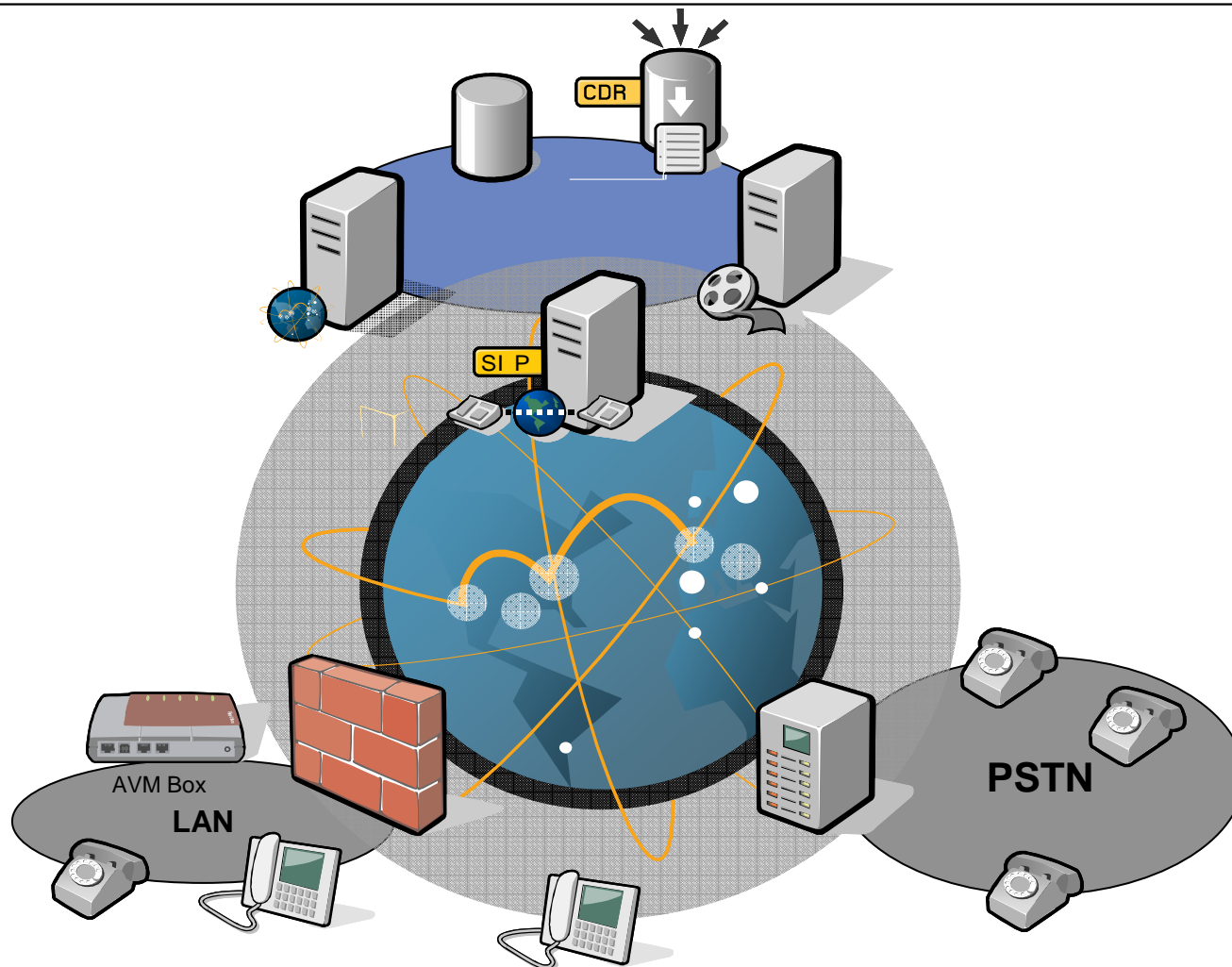
## Third Annual VoIP Security Workshop

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# VoIP: The Starting Point to a Changing World

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# VoIP: The Starting Point to a Changing World

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VoIP mainly as an added-value service

- Central SIP proxy, database, media server

Service supporting couple of 10000 users

- SIP Express Router supported 50000 subscribers

Advantages

- Short time to roll out
- Low initial investment

However

- System not prepared for service pick-up
- Hardly any fail-over strategy



# Issues to Consider

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VoIP is a reality now

- More than 500000 estimated users in Germany, and more than 100 Billion Minutes per month worldwide

Devices, standards and bandwidth are available at reasonable prices

- But no overall security solution

While still not an issue, in order to achieve the reputation of PSTN as reliable and secure one must think of

- Misconfigured users
- Malicious users
- SPAM



# Research and Development

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With no security solution VoIP will not advance

- No security = Lower trust
- Lower trust = lower usage
- Lower usage = lower investment
- Lower investment = lower development and research
- Lower development and research = No security



# Research and Development

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Research is a corner stone in the development of secure VoIP infrastructures

- Security solutions known from email, http and PSTN are not directly applicable to VoIP
- As VoIP is already in deployment, efficient solutions will only be possible with close cooperation of industry and academia
- Fokus was first to provide a reliable and scalable VoIP server
- Fokus is working intensively on providing solutions for achieving highly reliable and secure VoIP infrastructures

