



Zukünftige Möglichkeiten der VoIP- Technologie: Is VoIP-Spam (SPIT) a hazard for the SIP business?

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Three categories of SIP Spam

- Call Spam
- Instant Message Spam
- Presence Spam

The majority of the information's in this presentation is based on the IETF draft:
„SIP and Spam“ (draft-rosenberg-sipping-spam-00)



Comparing telemarketing with SPIT

For 10 seconds commercial	PSTN telemarketing (T1 line)	SPIT (500Kbps uplink)
Simultaneous calls	24	90
Call attempts per second	2.4	62
Costs per (successful) call	250 000 microcents	215 microcents

SPIT will become a problem!



Possible solutions I

- Content Filtering
How to filter something which is not delivered yet?
- Black & White Lists
Black: Infinite address/domain space.
White: Initial communication problem.
- Consent-Based Communication
Combine with SIP Presence and B&W lists.
How avoid „Consent Congestion“ (no content)?



Possible solutions II

- Touring Tests
Can be extended for multimedia.
- Computational Puzzle
Today's devices are too different.
- Legal Action
Probably there will always be „open“ countries and open relays.
- Payment at Risk
Missing micropayment solutions.



Possible solutions III

- Trust Circle
Does it scale?
- VoIP Clearinghouses
A centralized (monopolistic) approach.
- Sender Checks
No advantage, because TLS and certificates provide a better trust model.



Conclusion

- **Use the built in Authentication**
- **Use TLS to enable trust networks**
- **Learn from Email:
act now before it is too late!**



The advantage of ENUM?!

- Don't bill for the use of the PSTN breakout.
- Bill the user when he entered a PSTN number.
- Thus you participate in the progress of ENUM.

Any questions?



snom phones have
ENUM support built in.

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