Cf	PASS SECURITY	
	Attacking VoIP	
	Walter Sprenger walter.sprenger@csnc.ch	
	GLÄRNISCHSTRASSE 7 POSTFACH 1671 CH-8640 RAPPERSWIL Tel.+41 55-214 41 60 Fax+41 55-214 41 61 team@csnc.ch www.csnc.ch	







C (Introduc	tion
	 Protocols Signaling SIP/SIPS (Session Initiation Protocol) H.323 (ITU-T standard for multimedia on packet network) Skype (peer to peer network, proprietary) Media Transport	
	 Other Protocols RSVP, 802.1q (Resource Reservation Protocol) DNS (Domain Name System) ENUM (Electronic Numbering) STUN (Simple Traversal of UDP over NATs) 	Page 5















Cf	PASS
	SIP & RTP - Protocols
	GLÄRNISCHSTRASSE 7 POSTFACH 1671 CH-8640 RAPPERSWIL Tel.+41 55-214 41 60 Fax+41 55-214 41 61 team@csnc.ch www.csnc.ch























C (APASS	Threats to VoIP
	 Attacking the VoIP Infrastructure (Prof. VoIP components are often based on systems. If the systems are not adeq hardened an intruder could break into attacks can be targeted against the V. VoIP components are a gateway from network. Weaknesses in the gateway attacker to access the data network. If an attacker compromises VoIP Infra. Eavesdrop on conversations/connection. Deny service Redirect traffic to expensive numbers. Listen to voice mails Capture SIP credentials Phone for free Modify dial plans 	xies, PBX, Registrar) well known operating uately protected and o the system. IP based OIP infrastructure. The POTS to the data would allow an astructure, he could: on statistics



~	A A PASS	Threats to VoIP
	 Other threats Availability Service is based on the data network 	k. No phone calls can be
 ▼ 3 ↓ 4 ↓ 5 ↓ 6 	 Placed when there is: No electricity Network outages Network problems (DNS, Firewather the computer network is down business up? With phone conversation How do you call emergency numbers 	all, VoIP Infrastructure) n, how do you hold your ons? s?
	 Annoyances As real VoIP services do not cost, th phone calls (called SPIT) as before. How about letting your phone ring a that calls VoIP phones at random! 	ere will be much more SPAM t night? Think about a worm
	© Compass	Page 27







C	APASS
	Conclusion
4 5 6	
	GLÄRNISCHSTRASSE 7 POSTFACH 1671 CH-8640 RAPPERSWIL
	Tel.+41 55-214 41 60 Fax+41 55-214 41 61 team@csnc.ch www.csnc.ch



Cf	PASS SECURITY	
	Dis	cussion
	GLÄRNISCHSTRASSE 7 POSTFACH 1671 CH-8640 RAPPERSWIL Tel.+41 55-214 41 60 Fax+41 55-214 41 61 team@csoc.ch.www.csoc.ch	



