

# Hacking VoIP: Protocols, Attacks, and Countermeasures

Himanshu Dwivedi



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Voice over Internet Protocol (VoIP) networks have freed users from the tyranny of big telecom, allowing people to make phone calls over the Internet at very low or no cost. But while VoIP is easy and cheap, it's notoriously lacking in security. With minimal effort, hackers can eavesdrop on conversations, disrupt phone calls, change caller IDs, insert unwanted audio into existing phone calls, and access sensitive information.

*Hacking VoIP* takes a dual approach to VoIP security, explaining its many security holes to hackers and administrators. If you're serious about security, and you either use or administer VoIP, you should know where VoIP's biggest weaknesses lie and how to shore up your security. And if your intellectual curiosity is leading you to explore the boundaries of VoIP, *Hacking VoIP* is your map and guidebook.

*Hacking VoIP* will introduce you to every aspect of VoIP security, both in home and enterprise implementations. You'll learn about popular security assessment tools, the inherent vulnerabilities of common hardware and software packages, and how to:

- Identify and defend against VoIP security attacks such as eavesdropping, audio injection, caller ID spoofing, and VoIP phishing
- Audit VoIP network security
- Assess the security of enterprise-level VoIP networks such as Cisco, Avaya, and Asterisk, and home VoIP solutions like Yahoo! and Vonage
- Use common VoIP protocols like H.323, SIP, and RTP as well as unique protocols like IAX
- Identify the many vulnerabilities in any VoIP network

Whether you're setting up and defending your VoIP network against attacks or just having sick fun testing the limits of VoIP networks, *Hacking VoIP* is your go-to source for every aspect of VoIP security and defense.

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