



# Session Initiation Protocol (SIP): Controlling Convergent Networks (McGraw-Hill Communication Series)

By Travis Russell



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## Session Initiation Protocol (SIP): Controlling Convergent Networks (McGraw-Hill Communication Series) By Travis Russell

### Build a next-generation telecommunications infrastructure

Consolidate divergent networks into one seamless, high-performance communications landscape using cutting-edge SIP technology, tools, and techniques. *Session Initiation Protocol (SIP): Controlling Convergent Networks* explains how to deliver Internet phone calls, IMs, video streams, and teleconferences across legacy, wireless, and wireline networks. Learn how to manage SIP sessions, build layers and proxies, interpret control codes, set up gateways, and comply with IETF and 3GPP standards. You'll also get details on using the latest methods, maximizing QoS, and implementing security measures.

- Initiate, modify, and terminate IETF-compliant SIP sessions
- Construct SIP messages, requests, proxies, functions, and layers
- Interconnect WiFi, WiMax, VoIP, and wireline networks
- Incorporate TDM and SS7 systems using media and signaling gateways
- Determine user locations with REGISTER and presence techniques
- Augment functionality using RFCs and packet cable extensions
- Prevent hijacking, tampering, DoS, DDoS, and BOTS attacks
- Implement reliable authentication, encryption, and intrusion detection policies



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### Editorial Review

#### About the Author

**Travis Russell** is a senior manager at Tekelec with more than 25 years of experience in data and voice networks. He has numerous patents and patents pending, and is the author of several books including *Signaling System #7* and *The IP Multimedia Subsystem (IMS)*.

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