MAPS™ Remote Controller (PKS111 and PKS113)

Multi-node Multi -Interface Emulation

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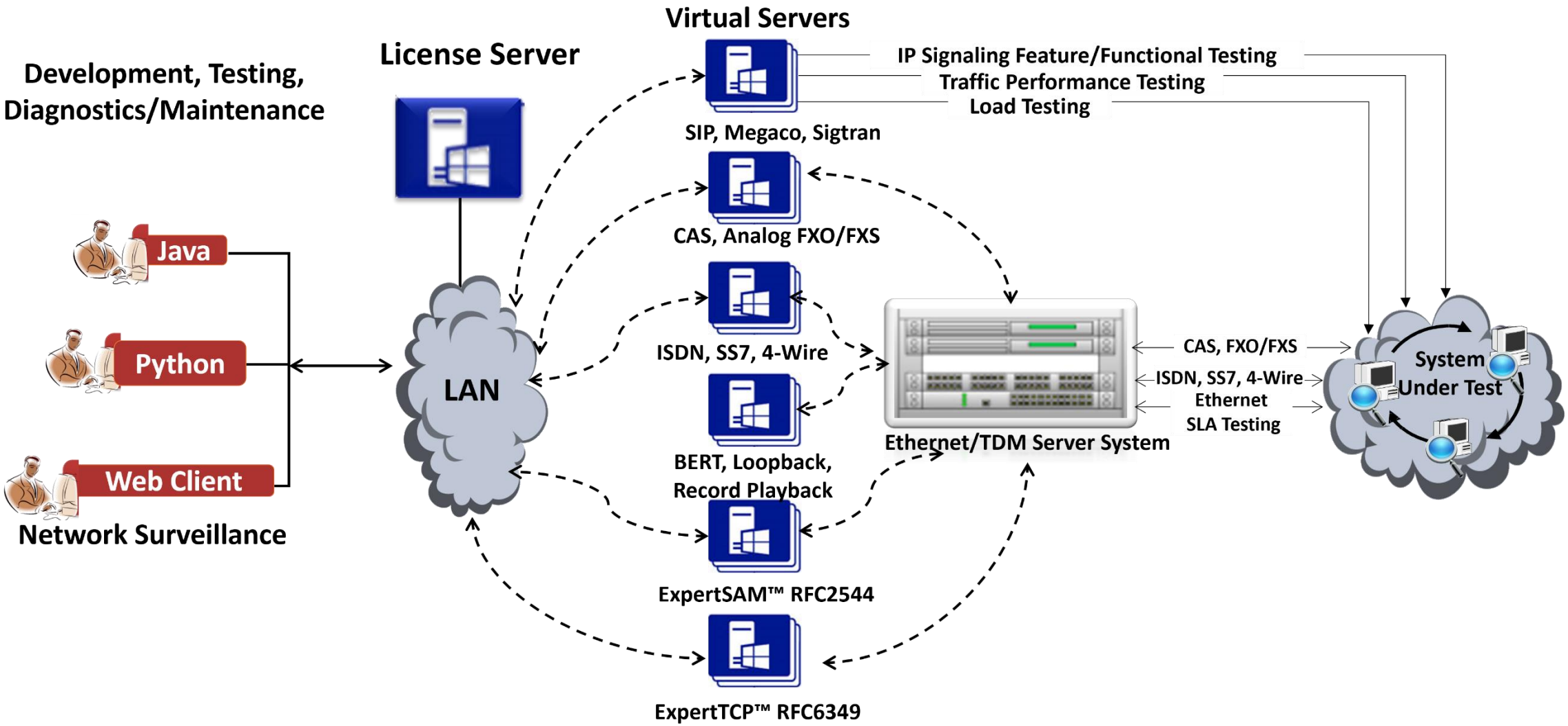
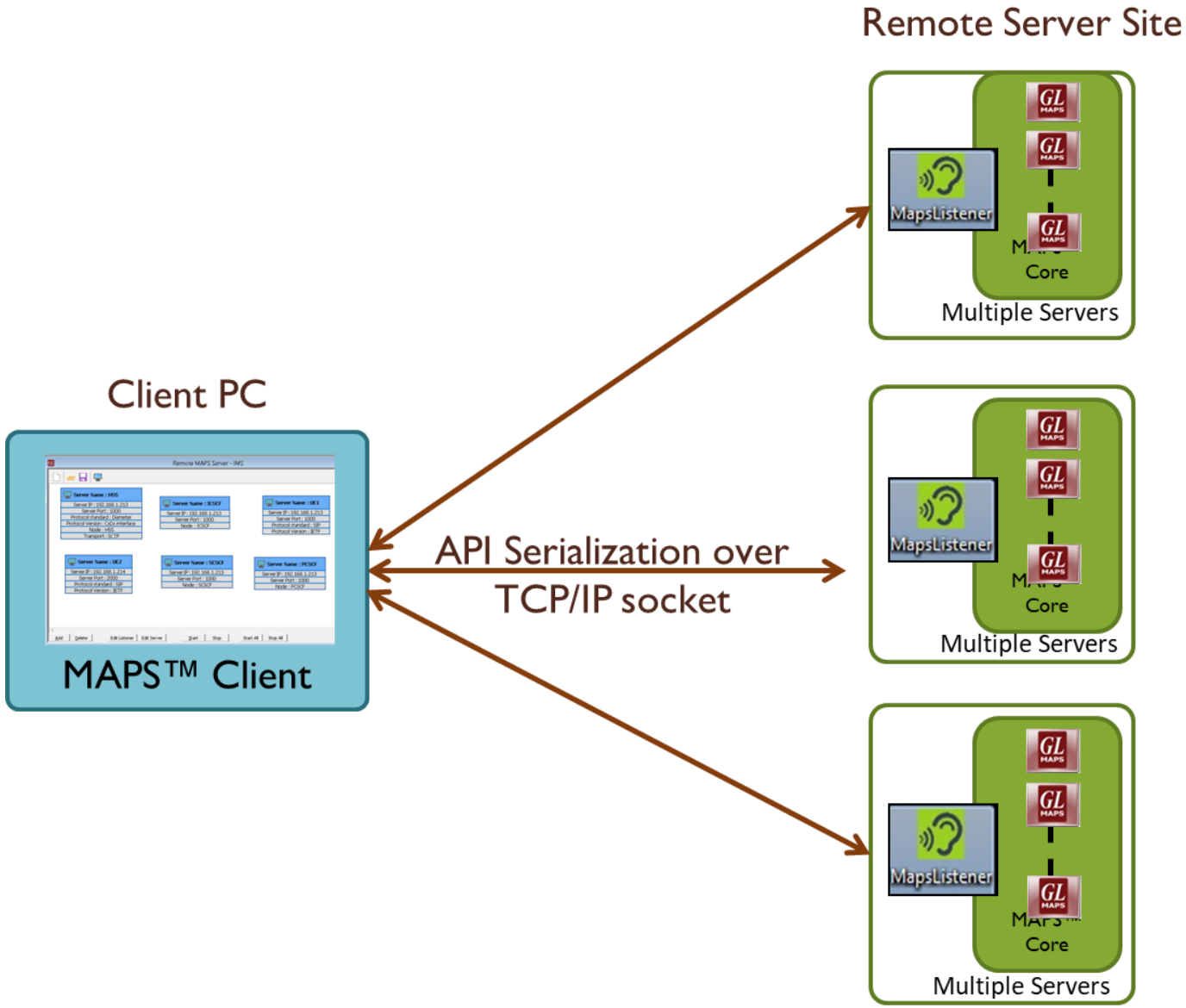
Remote MAPS™ Architecture



Network Architecture



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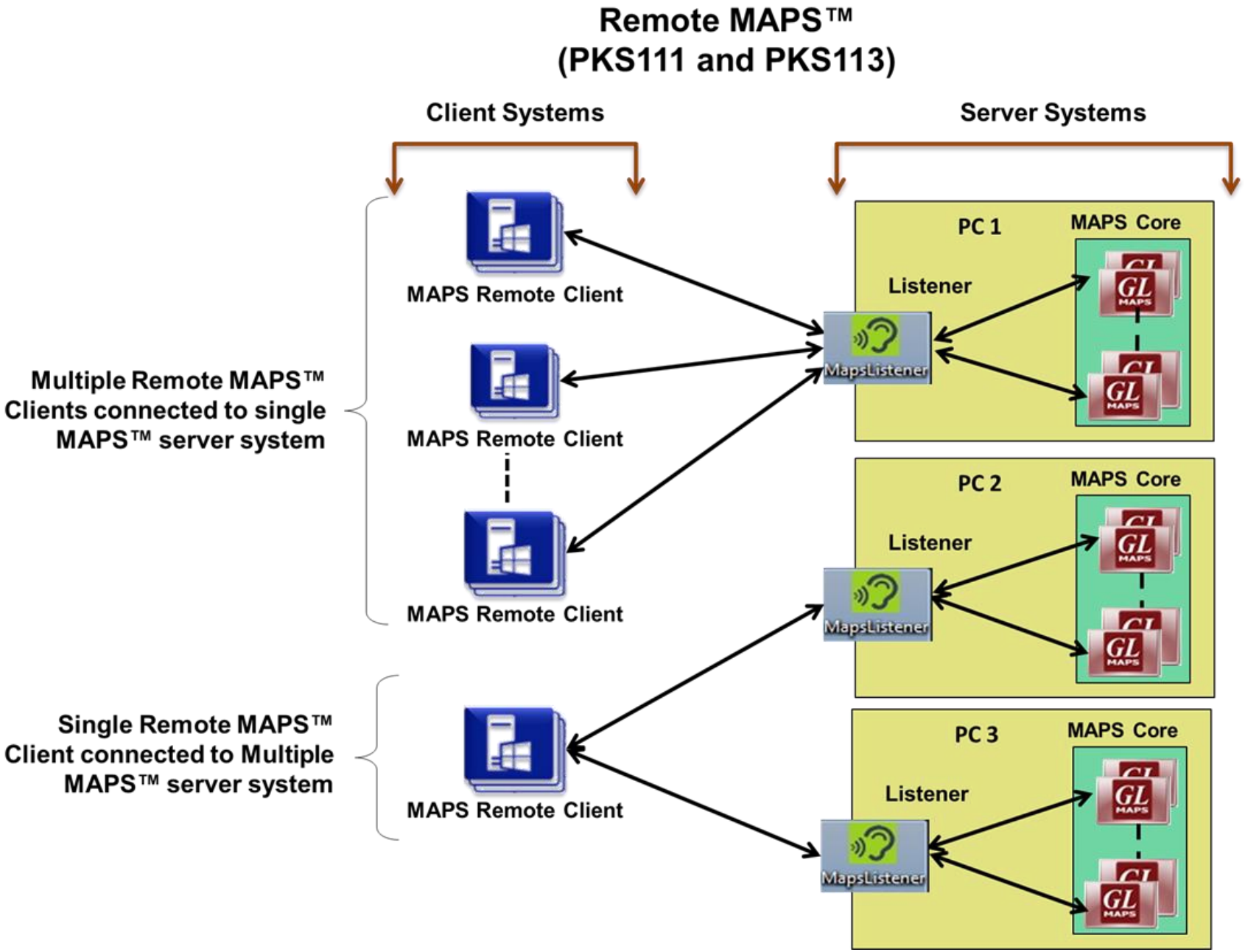
Features

- A single Remote Client GUI to remotely control/monitor all the network interfaces and elements emulated by MAPS™ Servers; one or more MAPS™ applications can be installed in a single Sever
- Allows integrated testing of different networks - Wireless, IP, TDM, and Analog (CAS, FXO, SIP, IMS, UMTS, ...)
- Suitable for testing any core network, access network, and inter-operability functions
- Remote MAPS™ provides access to all the functions of MAPS™ such as Testbed, Call generation, Call reception, Statistics and Results
- Client-server communication is facilitated through a Listener over TCP/IP
- Each Listener equates an independent instance of MAPS™ application at the server side. Each listener is associated with an Admin user
- Unlimited number of Remote client users can be defined at the server
- “Admin” has privileges to start /stop Testbed setup access, configuration files
- MAPS™ Remote Client to control one or more MAPS™ Server (PKS111) or at the MAPS™ Server systems (MAPS™ Server with Multi-user capability – (PKS113)
- Simultaneous traffic generation/reception at 100% on all servers

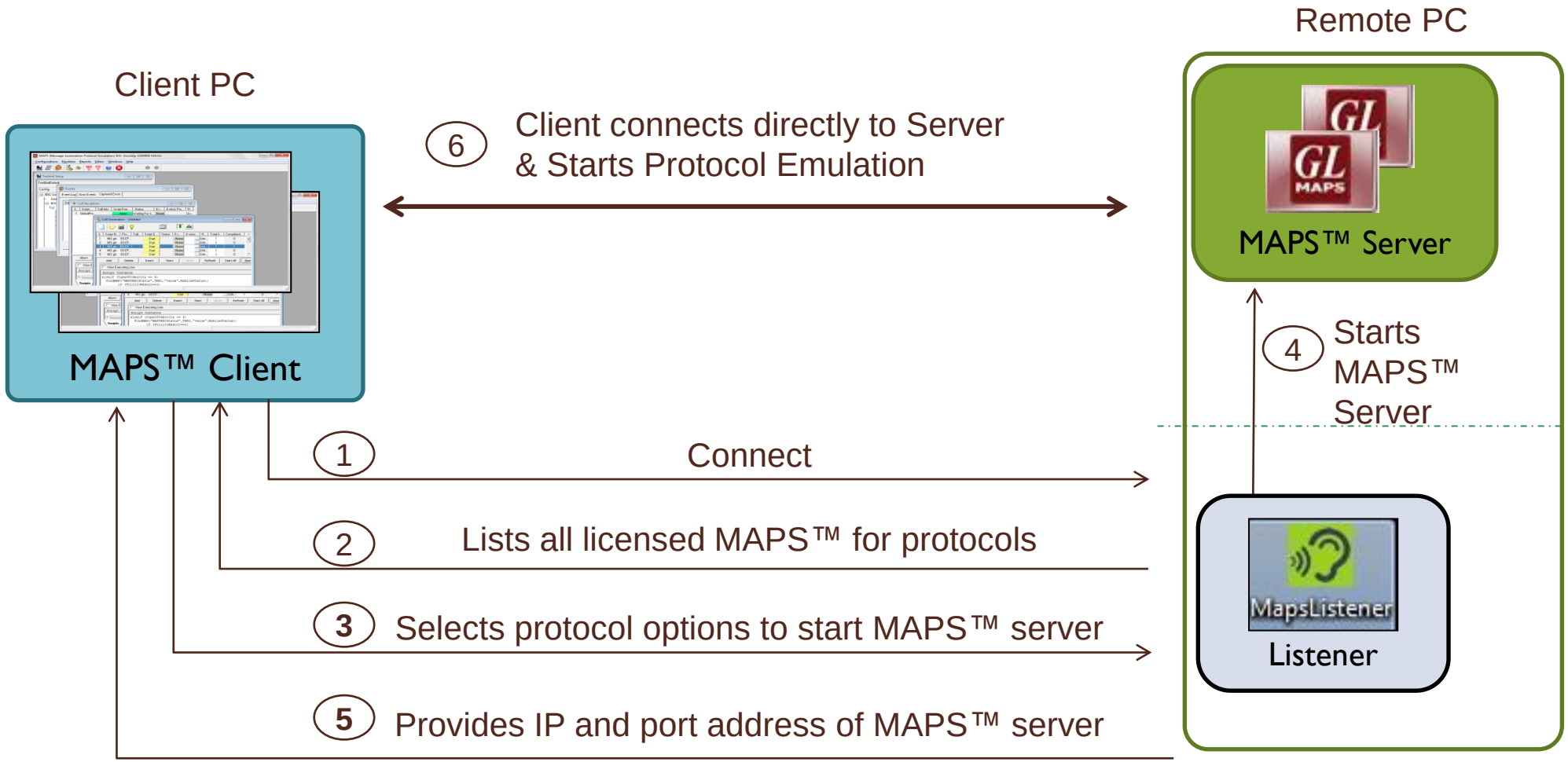
Working Principle



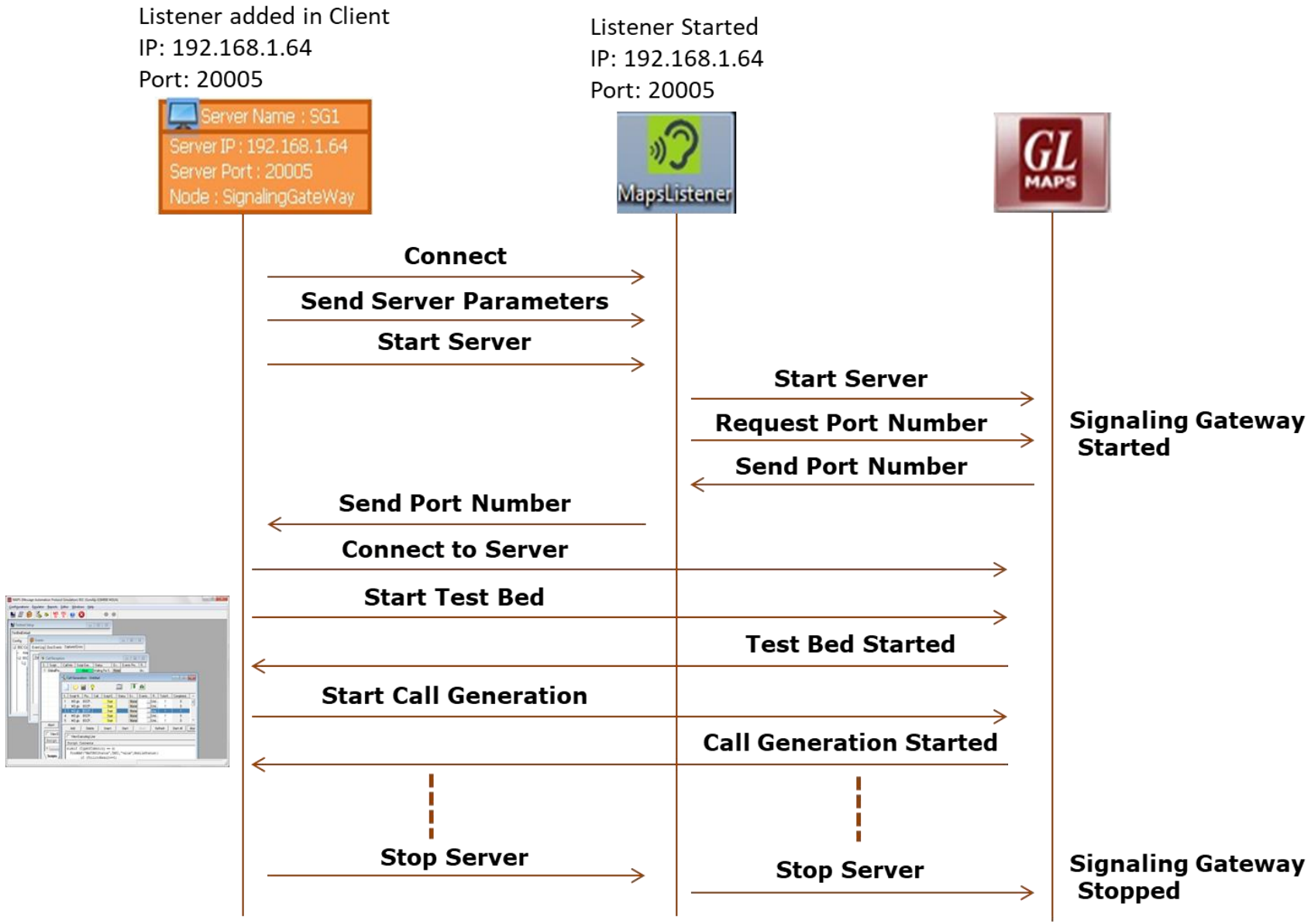
Software and License Requirements

	PKS 111	PKS 113
Client System	**Software Required:** MAPS™ Remote Client software **License Required:** MAPS™ Remote Client license (PKS111) **Configuration Required:** • Start Node Configuration • Admin User – Starts/Stops Test Bed • Other Users – Register Subscriber Profiles, Perform Call Emulation	**Software Required:** MAPS™ Remote Client software **License Required:** -nil- **Configuration Required:** • Start Node Configuration • Admin User – Starts/Stops Test Bed • Other Users – Register Subscriber Profiles, Perform Call Emulation
Server System	**Software Required:** • MAPS™ Emulator Core software • MAPS™ Remote Server software **Configuration Required:** • User Configuration • Listener Configuration • Protocol Configuration **License Required:** • MAPS™ Emulator Core license	**Software Required:** • MAPS™ Emulator Core software • MAPS™ Remote Server software **Configuration Required:** • User Configuration • Listener Configuration • Protocol Configuration **License Required:** • MAPS™ Emulator Core license • MAPS™ Multi User Server License (PKS113)

Client–Server Communication via Listener

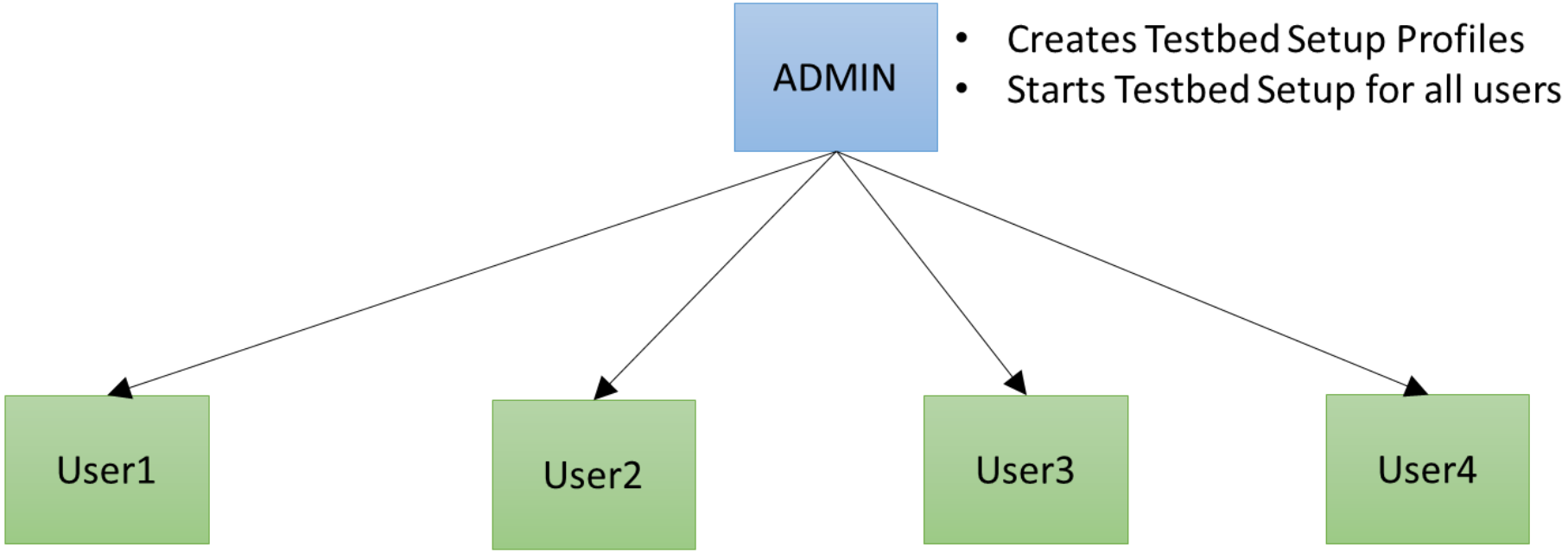


Remote MAPS™ Call Flow



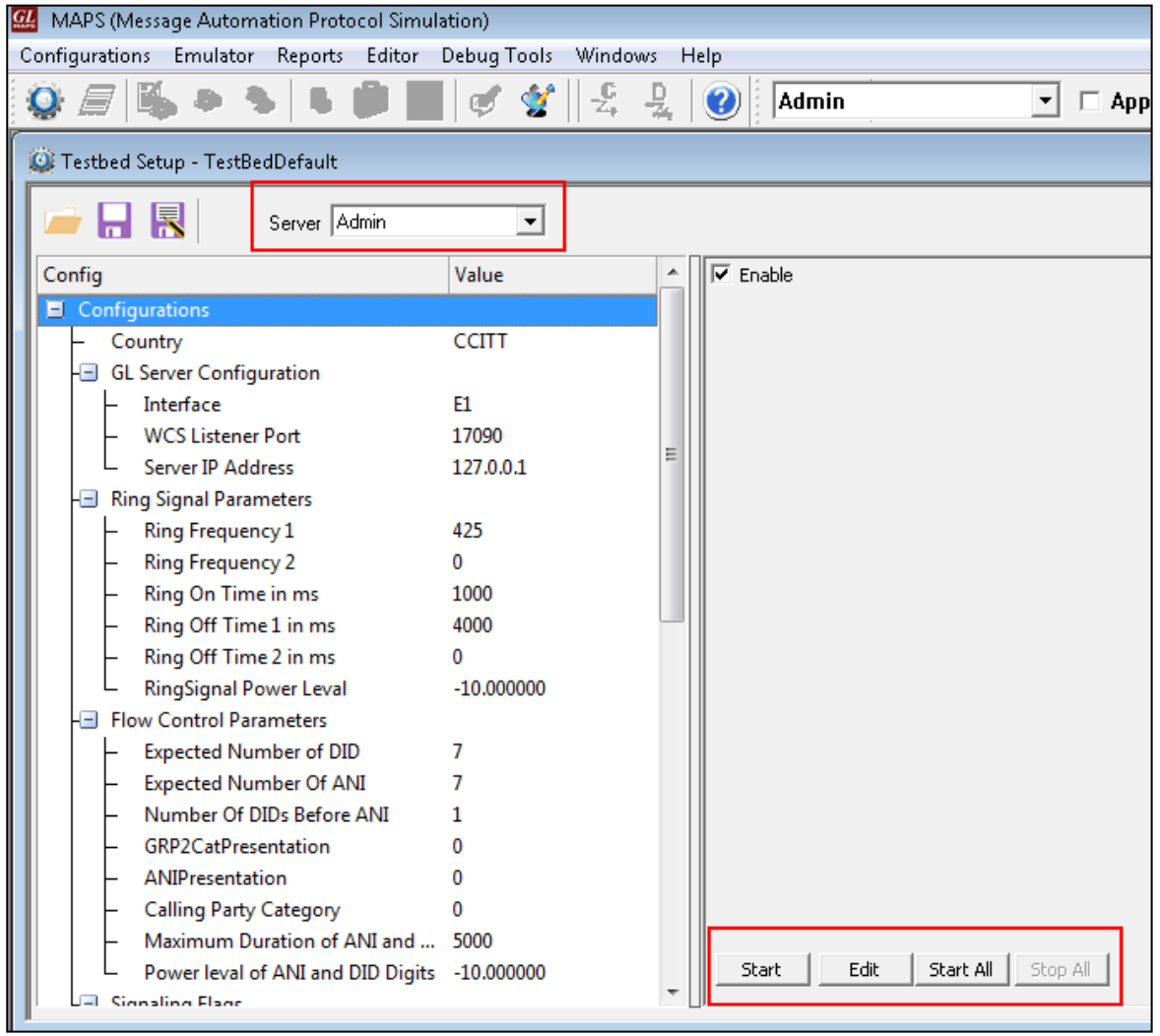
Multiple Users

- Multiples users can be created on each MAPS™ Server. One Admin user must be created to manage the test bed setup

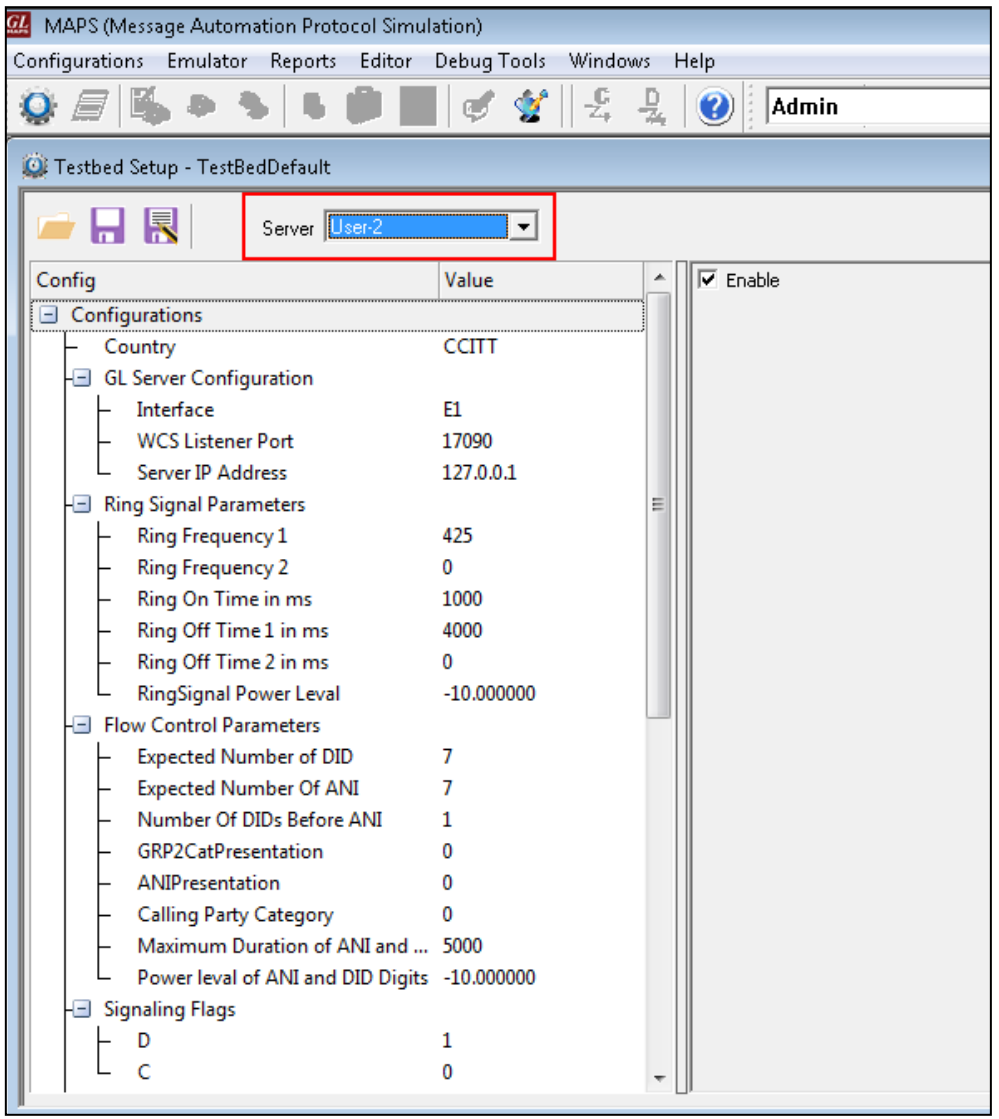


Testbed Setup Configurations

For Admin



For Users



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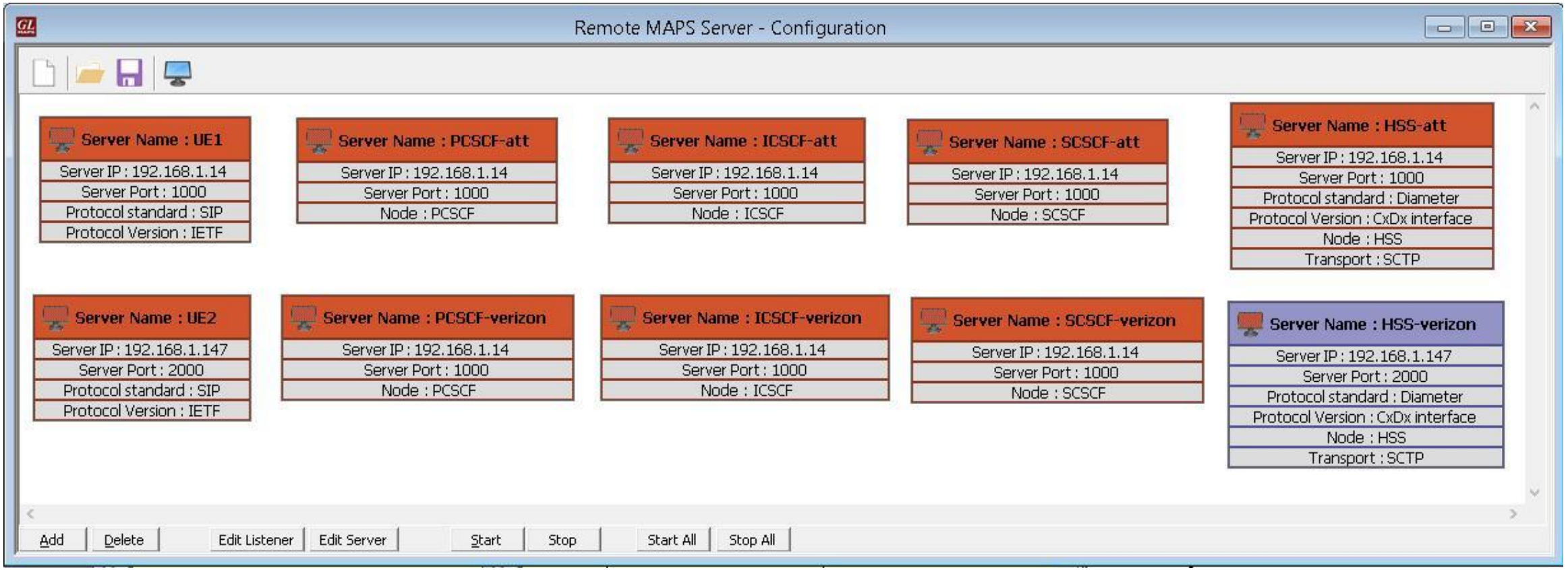
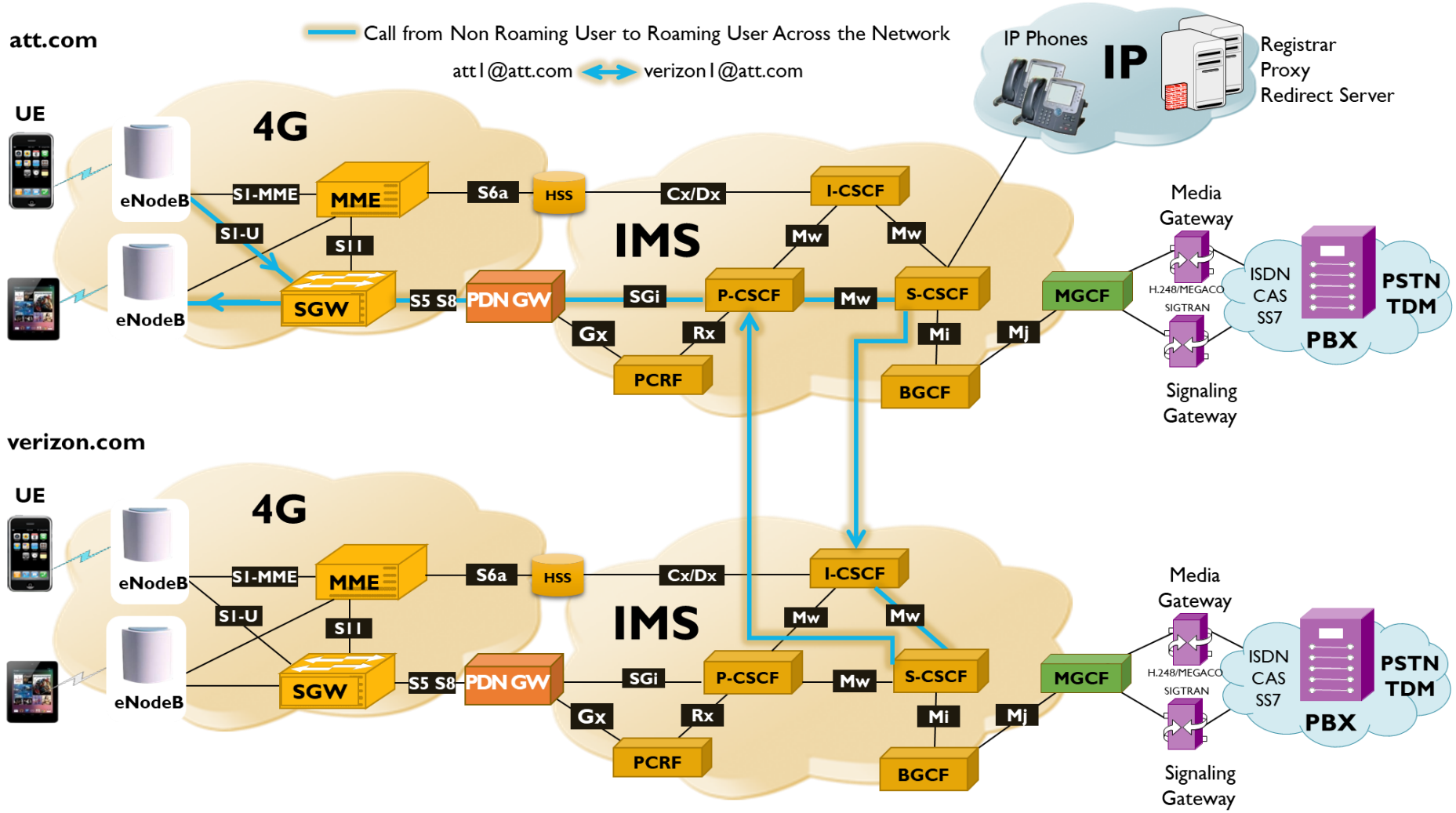
Remote MAPS™ for IMS Network

Remote MAPS™ Server Configuration



End-to-end Call from Non-Roaming User to Non-Roaming User Across the Network



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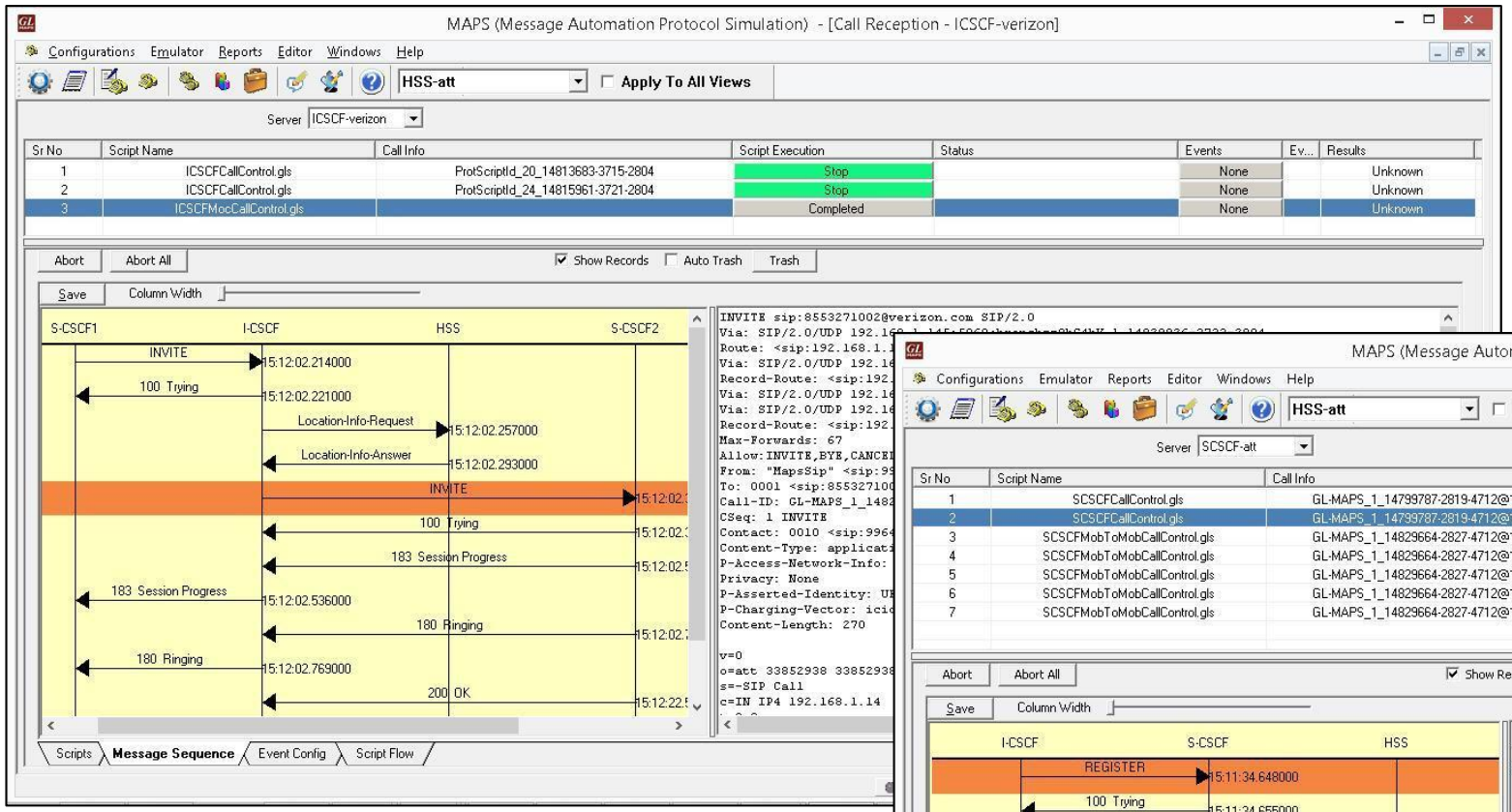
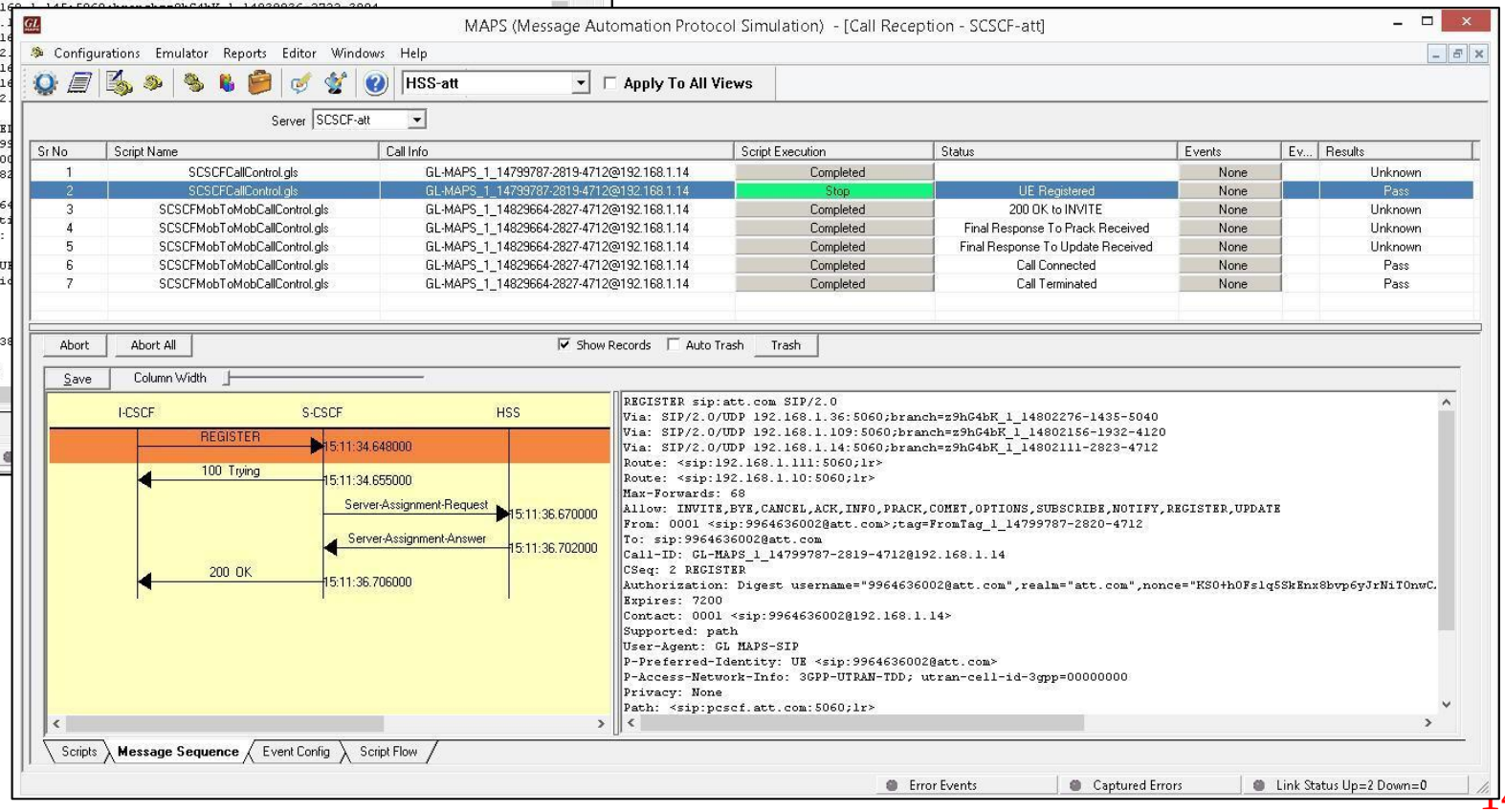
End-to-End Registration and Call Control Procedures

Call Reception at Verizon Network



Call Reception at ATT Network



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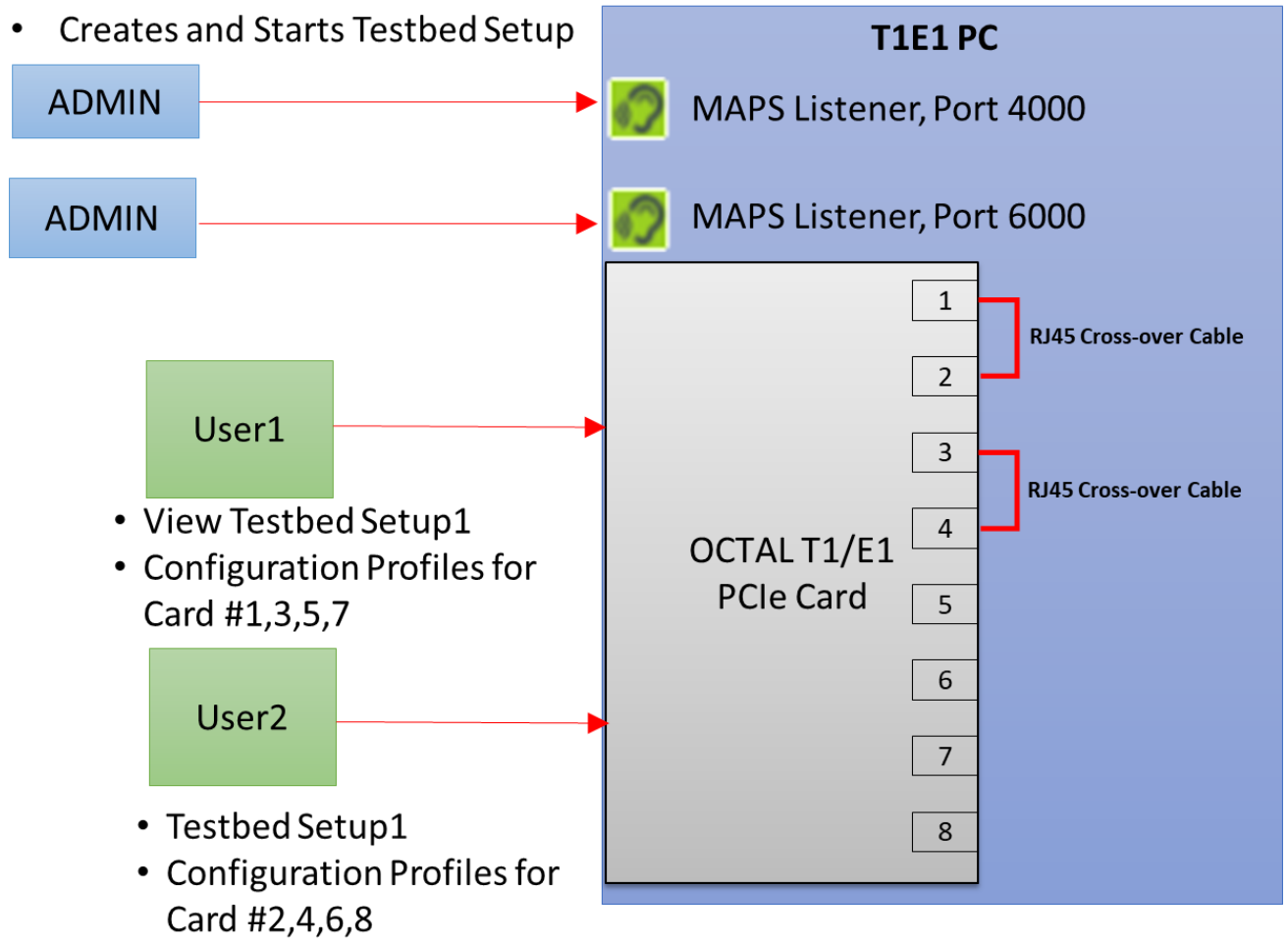
Remote MAPS™ for TDM Network

Remote MAPS™ Server Configuration for T1E1

- Remote MAPS™ to show how multiple users share the channel resources on a single T1 E1 Server to emulate calls



Thank you