SIPStudio

Addition to SIPSim
SIP-based services
simulation

SIPStudio: Enhancing SIPSim

SIPStudio is a sophisticated addition to RADCOM's SIPSim that provides extended flexibility in both call flow and scenario generation for the SIPSim core application. The SIPStudio retains the highest call load figures of the SIPSim while still handling an infinite number of different calls flows and programmable behaviors.

As the SIP protocol becomes more widely used, the number of applications using SIP continues to grow. These applications use SIP flows that are much more complicated than regular VoIP call flows. SIPStudio is specially designed to allow description tailoring and execution of these SIP flows under huge loads, as dictated by the regular SIPSim. SIPStudio greatly simplifies the creation, generation and monitoring of complicated SIP flows and combines several flows into a complex scenario of a single run.

Combining Performance and Flexibility in a Single Machine

Fundamental to SIPStudio is its ability to combine full scriptable operation with the largest performance numbers, in terms of both the number of concurrent calls that can be held open and the number of calls per second opened by the generator.

The advanced design of SIPStudio allows it to program any desired call flow into the operation while generating up to 3,000 flows per second and keeping up to 500,000 of these flows open at any given moment. This level of performance is unprecedented, with rival SIP call generators normally required to make huge compromises on performance in order to run slightly different call flows on their machines.

The benefits of such flexibility and proven performance are evident when testing medium and complex scenarios: a single SIPStudio can replace many competing units for all types of testing, meaning huge savings on capital expenses.

SIPStudio Highlights

- **Call flow control:** With the new SIPSim XML-based call flow engine, control individual call flows allowing for every imaginable SIP call behavior
- **Simple GUI:** New, simpler SIPStudio GUI
- **Scenario options:** Newly formed call flow and scenario capabilities provide a simple hierarchical approach to managing and activating the high load into the UUT
- **Same high performance:** With added flexibility and new features, still has the same high performance of the older SIPSim
- **Multiple codecs:** The new SIPStudio infrastructure easily delivers multiple codecs
- **Simple construction of complex scenarios:** Very simple, Excel-like composition of simulation scenarios
- **Improved session statistics:** Much finer resolution for session statistics.
- **Easy setup:** Configuration of SIP phones and SIP destinations has been simplified

Target Users

Network Element Developers: SBC; signaling; gateway; softswitches
Design and Verification Labs: QA, performance or development labs

User Environments

VoIP technologies, IMS technologies, 3G technologies
Voice, Video, Instant Messaging (IM), Presence

Supported RFCs, Methods and Protocols

INVITE, BYE, ACK, CANCEL, REGISTER, OPTIONS, NOTIFY, SUBSCRIBE, REFER INFORMATION, UPDATE, MESSAGE, PUBLISH, PRACK

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SIPStudio

Specifications

R70, Rack-mount 2U		**R1000**, Rack-mount 2U	
Number of LIMs: up to 3		Number of LIMs: up to 2	
Width:	430mm	Width:	440mm
Height:	89mm (2U)	Height:	89mm (2U)
Depth:	540mm	Depth:	475mm
Weight:	9.5 Kg	Weight:	9.0 Kg

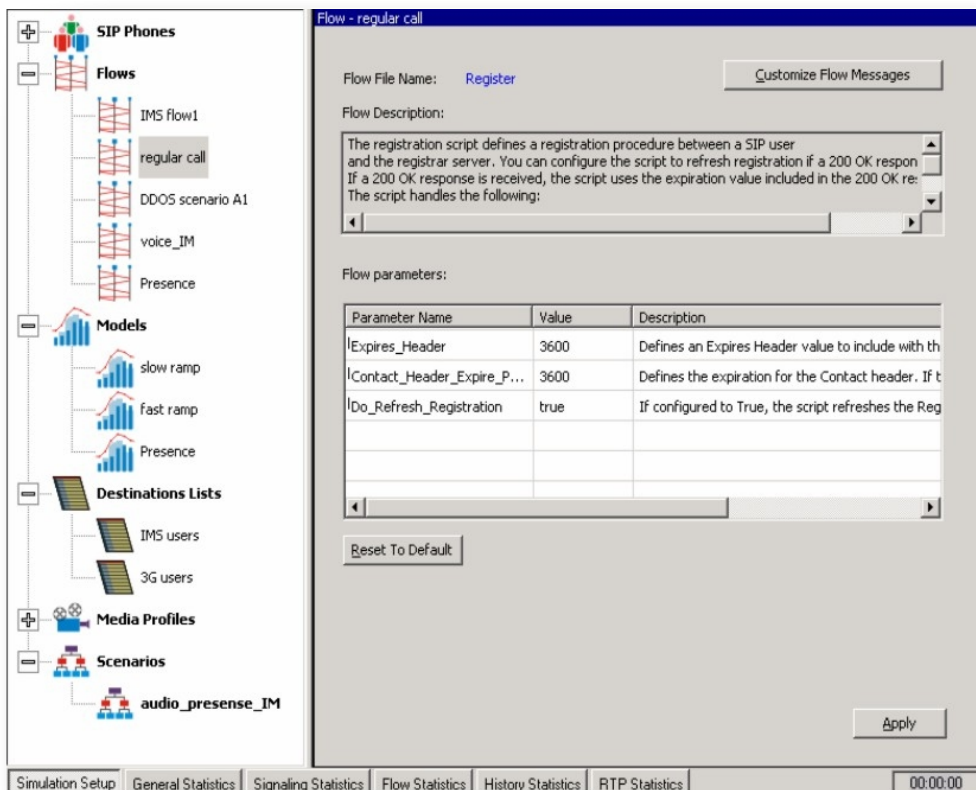
Performance

Signaling

Call open rate:	3,000 calls/sec
Simultaneous calls:	500,000
BHCA:	6,000,000

Signaling + media

Call open rate:	1,000
Simultaneous calls:	50,000 (500,000 with signaling)
BHCA:	3,000,000



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