



SIMNOVUS
innovation made simple

DATASHEET

SIMNOVATOR® - MEDIA PACK

VERSION

1.0.0

BY

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PRODUCT OVERVIEW

FEATURES

- Methods as defined in RFC 3261: REGISTER, INVITE, OPTIONS, INFO, CANCEL, BYE
- Authentication: HTTP Digest
- IP Version: IPv4
- Transport: UDP, TCP
- SDP based on RFC 4566
- RTP and RTCP based on RFC 3550 and RFC 3551
- Precondition based on RFC 3312 and RFC 4032
- Supported Codecs:
 - AMR-NB,
 - AMR-WB
- WAV file playback and recording
- MOS Score Calculation

INTRODUCTION

The Simnovator-Media is part of the Simnovator-Essentials Add-On pack to Simnovator (UE Simulator).

It provides the voice capability (VoLTE or VoNR) to the simulated LTE, Cat-M or 5G NR UEs. Flexible deployment options allow running it on the same machine as the UE Simulator or independently on another machine or VM instance connected to the UE simulator.

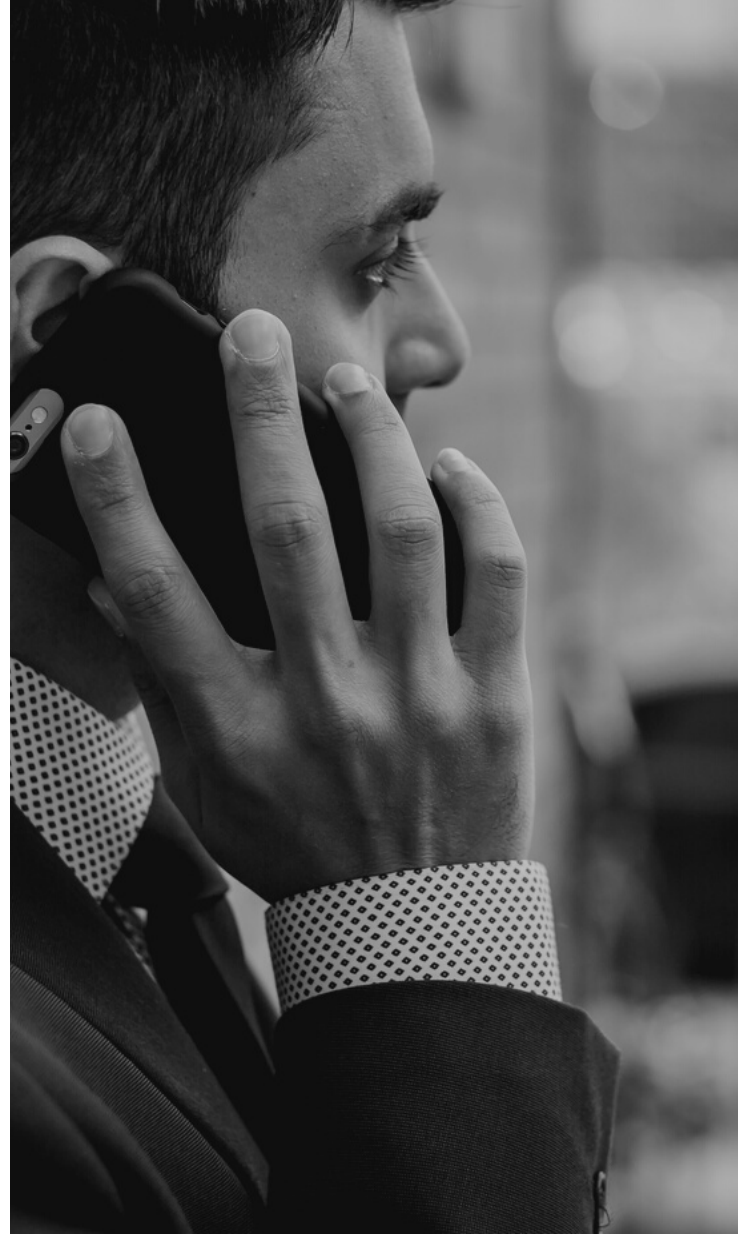
Supports up to 256 simultaneously registered UEs.

LOGGING

- Detailed log for each simulated subscriber.
- Each log entry contains the following information
 - Timestamp as per RFC 3339
 - Message Name
 - Direction: Tx or Rx
 - Length of the message
 - IP of the UE and the P-CSCF
 - Decoded SIP Message with SDP parameters

STATISTICS

- Updated message counters for SIP during the call
- Detailed media statistics for each UE at the end of the call.
- Option to also check the Global media statistics
- Per UE statistics contains the following information.
 - Total duration of the session
 - MOS
 - Mean Jitter
 - Total pkts sent or received
 - Total pkts lost
 - Mean RTT



MISCELLANEOUS

- Implementation of SCTP to interact with external applications for the creation and deletion of VoLTE clients.
- Sample wav files in different languages and of variable lengths available to be used during the tests.
- Supported OS: Ubuntu 18

UPCOMING FEATURES

- IP version: IPv6
- IPSec for SIP

