



## LOAD

### High density per dollar

- Generate thousands of SIP sessions
- Generate millions of busy hour calls
- Runs on a standard PC
- Equally at home on a laptop or server

## SCRIPTING

### Fully scriptable XML engine

- Easy-to-use wizard
- Simulate any SIP endpoint
- Includes dozens of examples
- Simulate "other than normal" scenarios

## MEDIA

### Complete media testing

- Supports any audio or video codec
- QoS analysis with MOS and R Factor
- RFC 2833 and INFO DTMF support
- Advanced path confirmation tests

# WinSIP 3.2 Technical Specifications

## Features

### Internal Stack RFC support (VoIP and extensions)

#### SIP

- RFC 2543 (SIP I)
- RFC 2976 (INFO)
- RFC 3261(SIP II)
- RFC 3262 (PRACK)
- RFC 3265 (SUBSCRIBE/ NOTIFY)
- RFC 3311 (UPDATE)
- RFC 3425 (MESSAGE)
- RFC 3515 (REFER)
- RFC 3892 (Referred By)
- RFC 4028 (Session Timer)

#### Media

- RFC 1889 (RTP I)
- RFC 2327 (SDP)
- RFC 3550 (RTP II)

#### Other

- RFC 2617 (MD5 Digest Authentication)
- RFC 2833 (Named Telephony Events)

### Modes of Operation

- TestML XML Scripting
- Initiate Calls (Scripted)
- Answer Calls (Scripted)
- Unattended Answer (Unscripted)
- Multiline Initiate
- Multiline Answer
- Proxy/ Registrar Test (Scripted)
- Proxy Server (Pre/ un-configured)

### Diagnostic Capabilities

- Signal, connectivity, load, torture testing
- Media Jitter/ Latency
- Call, Session, and QoS summary reports
- Extensive Error Tracking
- Delay/ Stop on error
- Media Path Confirmation (RFC 2833 DTMF)
- Media Content Confirmation (Tone Test)
- Optional R Factor and MOS scoring module

### Call Control

- UDP/ TCP
- Variable t1 timer
- Initial Delay
- Post-Dial Delay
- Ring Duration
- Media Start Events
  - None
  - 180 Ringing
  - 183 Session Progress
  - 200 OK
  - ACK
- Media Play List
- Call Repetitions
  - Single
  - Repeat Infinitely
  - Repeat Specified Iterations
- Call Duration
- Inter Call Delay (success)
- Inter Call Delay (error)
- Stop on Error
- DTMF Events
- Error Injection

### Codec Support

#### Audio (Extensible)

- G .711 Alaw, mUlaw
- G .722.1
- G .723 5.3Kb/s
- G .723 6.3Kb/s
- G .729 Annex A
- EVRCO
- iLBC
- AMR NB

#### Video (Extensible)

- H.261 QCIF, CIF, 4CIF, 16CIF
- H.263 QCIF, CIF, 4CIF, 16CIF

