

# IxVoice TAPI 2.x Test Library



## Key Features

- TAPI call generator for testing call managers and IP-PBX systems
- Simulates real-world TAPI applications
- Predefined bulk call and feature test scenarios

## Automatic Bulk Call, Endurance, Load and Stress Testing

The TAPI test library is included in the IxVoice framework, and implements functions that exercise the features exposed by Microsoft Telephony Application Programming Interface versions 2.0, 2.1 and 2.2.

The TAPI test library can be used to generate calls on thousands of channels and perform capacity testing, measure the performance, and retrieve information about the call volume limit of the SUT. The TAPI test scenarios are used to route signaling and media streaming to the IP-PBX via a data link and test advanced IP-PBX features like call hold, call transfer, call conference, etc.

## Applications

- Feature testing under normal and load conditions
- IP-PBX Testing
- Qualify overall new devices and IP network functionality

## Bulk Call Generation

- Simulate multiple TAPI users
- Concurrent call setups per host
- Multiple concurrent connections with media streaming per host
- Full control of the SUT load

## IP-PBX Feature Testing

- Test a basic set of core features: intercom calling, call forwarding, hold/retrieve, transfer, forward, divert conference etc.
- Test advanced PBX features: automatic callback, busy station signaling, call pickup, call waiting, Normal Call Duration, Normal inter-call duration
- Multi-interface TAPI to Analog, TAPI to Analog to IP (core and advanced features)
- Performance Testing
- Endurance, load, stress (BHCC)
- Maximum number of active calls
- Maximum number of simultaneous calls setup
- Maximum number of hold call-backs
- Maximum number of transfers and transfer call-backs
- Maximum number of participants to a conference



- Maximum number of forwards in loop
- Performance on multiple interfaces TAPI to Analog, TAPI to Analog to IP

## **TAPI to Analog to IP**

- BHCC on multiple interfaces
- WAN Impairments

## **Functions**

### *Basic Call Control*

- Open
- Set Call Privilege
- Make Call/Answer
- Drop/Deallocate Call
- Close
- Get Call Info

### *Call Feature*

- Add To Conference
- Complete Transfer
- Forward
- Handoff/Wait Call
- Hold/Swap Hold/Unhold
- Prepare Add to Conference
- Remove From conference
- Redirect
- Setup Conference
- Setup Transfer
- Blind Transfer
- Park/Unpark

### *Media Exchange Functions*

- Monitor Digits
- Play/Record
- Generate/Gather Digits

## **Call Measurements**

### *Call Control*

- BHCC
- Originated Calls/Connected Calls
- Received Calls/Answered Calls
- Accepted Calls/Rejected Calls
- Dropped Calls/Disconnected Calls
- Deallocated Calls

### *Voice*

- Successful/Failed Playbacks
- Successful/Failed Recordings

### *Tones*

- Generated/Detected DTMFs



- Monitored DTMF
- Generated/Detected Tones
- Monitored Tones

### **Statistics**

- Transfer Setups
- Successful Transfers
- Conference Setups
- Successful Conferences
- Held/Unheld Calls
- Redirected Calls
- Parked/Unparked Calls
- Handed-off Calls
- Received handed-off calls

### **Global Settings**

- Configurable global timeout value for TAPI library
- User-defined call privileges and media modes

### **Product Ordering Information**

921-4009

IxVoice API TAPI 2.x Test Library License

