



MRCP server

Product Data Sheet

IEC, Inc.
2010

www.iec-sw.com

This product is an MRCP server shell that implements MRCP V1 and V2. It has a flexible C++ interface for easy integration of 3rd party voice technologies. All that's required is implementation of several functions that implement specific voice operations. The product handles the MRCP interface, RTP streaming, resource management.

Features:

- MRCP v1, v2
- SRGS, NLSML, SSML
- ASR-MRCP (Fonix) - Under development.
- TTS-MRCP (Cepstral)
- External technology plugin for easy integration with 3rd party voice technologies
- RTP stream management—outgoing for TTS, incoming for ASR.

Available Plugins:

- TTS—Based on Cepstral TTS engine. Available from IEC

Typical Capacity

- Maximum Media Sessions : 300.
- Cepstral TTS 80 Sessions .

Management :

- GUI
- Command Line Interface

System Requirements:

- CPU 1.0 GHz Or Greater
- Memory 512 MB or more
- Storage 1 GB or as required for media storage

OS Availability:

- Windows (2000-XP-2003)
- Linux : Kernel 2.6+(RedHat ES 4)

TTS Interface:

- int TTS_Initialize_Static (SitXercesHelper *) ;
- int TTS_Synthesize (MrcpSession * , const string & ssml) ;
- int TTS_Initialize (MrcpSession *) ;
- int TTS_Shutdown (MrcpSession *) ;
- int TTS_SetParameter (MrcpSession * , const string & name, const string & value, bool global) ;
- int TTS_GetParameter (MrcpSession * , const string & name, string & value) ;
- int TTS_AudioData (MrcpSession * , void * & data, unsigned int & length, bool & last) ;
- int TTS_Kill(MrcpSession * sptr) ;
- int TTS_Delete(MrcpSession * sptr) ;

ASR Interface:

- ASR_result ASR_Initialize_Static () ;
- ASR_result ASR_Initialize (MrcpSession *) ;
- ASR_result ASR_DefineGrammar (MrcpSession * , const string & grammar_type, const string & grammar_id, const string & grammar) ;
- ASR_result ASR_Recognize (MrcpSession * , const string &) ;
- ASR_result ASR_AddBuffer (MrcpSession * , void * data, unsigned int len) ;
- ASR_result ASR_Shutdown (MrcpSession *) ;
- ASR_result ASR_SetParameter (MrcpSession * , const string & name, const string & value, bool global) ;
- ASR_result ASR_GetParameter (MrcpSession * , const string & name, string & value) ;
- ASR_result ASR_Start_timer (MrcpSession *) ;
- ASR_result ASR_Insert_dtmf (MrcpSession * , const char digit) ;
- ASR_result ASR_Reset (MrcpSession *) ;