**iMeet Documentation Phase-3**

**Objectives:** Documentation Phase-1 will include the following sections:

* 90% open sources projects, Addons, custom sources which are used in Voice-video-chat.
* Little bit explanation of each and every module.

|  |  |  |  |
| --- | --- | --- | --- |
| Addons | Basic functionality | Why we use it in iMeet | Status |
| resiprocate | * reSIProcate is both open-source and commercial products. * consists of a stack and a collection of applications. ReSIProcate used for stun,turn ,instant messaging servers or clients. | * Handling NAT mechanism . |  |
| redis | * used in messaging or client to client chatting. | * used to client to client messaging in same server port. |  |
| kamailio | * SIP server * responsible session maintain, establish. * audio-video-messaging. | * used in voice-video. |  |
| nginx | * HTTP and reverse proxy server, as well as a mail proxy server. * Used to handle RTMP and HTTP data from browser. | * Send RTMP data to red5 and HTTP data to web client. |  |
| popcorn.js | * Popcorn.js is a JavaScript library that allows video, audio and other media to control and be controlled by arbitrary elements of a webpage. | * Processing the voice video data on webpage. |  |
| STUN TURN ICE | * STUN,TURN and ICE module is used to know the each client IP and PORT address and to establish connectivity channel by which call will be go through. * Must needed for VoIP communication. | * NAT traversal mechanism. |  |
| swftools | * Collection of utilities for working with Flash files. * Reading SWF files, combine them and creat swf files from other content file. | * convert image data in to swf format. |  |
| AudioDSP | * audio codec. * designed to convert analog voice to digital voice over IP. | * convert analog voice data to digital format. |  |
| WASAPI | * Windows audio session API(WASAPI) enables client applications to manage the flow of audio data between application and audio endpoint device. | * media stream handled for windows platform |  |
| CUDA | * Windows media library. | * used in media handling for windows. |  |
| DirectShow | * Multimedia framework and API for windows. | * used in windows media. |  |
| WinMF | * Measurement software. |  |  |
| MEDIASTREAMER2 | * Powerful and light weighted streaming engine specialized for voice/video telephony applications. | * responsible for receiveing and sending multimedia stream in linphone voice/videe capture, encode decode and rendering. |  |
| oRTP | * Real-Time transport protocol libray. | * RTP stack for linphone, SIP compatible internet phone. |  |
| activemq | * used in messaging or client to client chatting. | * used in client-client messaging in different server port. |  |
| imagemagick | * use for image editing into bitmap image. |  |  |
| MCU | * Multipoint control unit is a device commonly used to bridge videoconferencing connections. * Multipoint control unit is an endpoint on the LAN that provides the capability for three or more terminals and gateways to participate in a multipoint conference. | * multiple user video conferencing. |  |
| RTPPROXY | * use for bypass RTP data. | * as direct RTP data direct pass is not possible. * So after encryption of RTP data, RTPPROXY break that encryption and bypass that RTP data. |  |
| RTMPT WITH RED5 | * RED 5 perform RTMP tunnelling. * Convert RTMP data to SIP data. | * use to convert rtmp data to sip data. |  |
| SQLITE(client) | * SQLite is a software library implements self-contained, server-less, zero-configuration, transactional SQL database engine. * SQLite is the most widely deployed SQL database in the world. | * used to store all history and data in client end. |  |
| Mysql(server) | * database. | * use to store all the history and data for each and every user in iMeet server. |  |
| quilt | * tools used for VoIP service |  |  |
| Ghostscript | * an interpreter for the PostScript language and for PDF |  |  |
| FLEX | * used to create flash file. | * flash file create. |  |
| Tomcat/JBOSS | * application server. |  |  |
| XCAP | * xml configuration access protocol is an application layer protocol that allows a client to read, write and modify application configuration data in XML format on a server. | * read, write and modify application configuration data in XML format. |  |
| MSRP | * a protocol transmit a series of related instant messages in the contest of a communication session. * instantiate session with SDP and SIP or other rendezvous method. | * needed for file transfer in SIP |  |
| T.140: Text Over IP | * text over IP medium is T.140. used to pass text over IP. | * use T.140 in text passing over IP. |  |