iMeet Documentation Phase-1

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

* Small brief of 45% open sources project which are used in iMeet.
* Little bit explanation of each and every module.

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| Projects | Work | Modified portions/ Usable portions | Codebase | Code location and installation | Status |
| Kamailio  **(kamailio-4.0)**  **(For processing SIP mechanism from browser)** | 1. Open source SIP server and able to handle thousands of call setups per second.  2. SIP session maintain.  3. Session Conversion.  4. SIP to XMPP conversion  5. XMPP to SIP conversion | 1. Custom media  proxy.  2. Customize SIP and  RTP messaging.  3. Session Conversion.  4. SIP to XMPP conversion  5. XMPP to SIP conversion | Still not available | Still not available |  |
| FreeSWITCH  **(FreeSWITCH-1.2)**  **(For processing video mechanism from browser)** | 1. Voice , video and  messaging. | 1. **Codec embed with FreeSWITCH :**  **(i)** **G-729**(audio data compression algorithm for voice that compresses digital voice in packets of 10 ms duration. ). iMeet is using this codec.  **(ii) OPUS** (highly versatile audio codec.) This codec is compatiable for FreeSWITCH.  (**iii) G.711 ulaw** (codec for iptelephony).  (iv)**SILK.( SILK** is an audio compression format and audio codec developed by Skype**)** | Still not available | Still not available |  |
| **2. Freeswitch addons:**  (i) libvpx (video compression format)  (ii) ffmpeg (video compression format). iMeet use this compression format. |
| Red5  **(version 0.9)**  Red5 is an Open Source Flash Server written in Java | 1. Streaming Audio/Video  2. Recording Client Streams  3. Shared Objects  4. Live Stream Publishing  5. Remoting.  6. RTMP to Voice/SIP  conversion. | 1. RTMP to SIP/ Voice conversion. | Still not available | Still not available |  |
| SWFTOOL  (latest windows version 0.9.0 )  (latest linux version 0.9.2.tar.gz)  **SWFTools** is an open software tool suite for creating and manipulating flash files. | Flash document conversion. | Flash document conversion. | Still not available | Still not available |  |
| Nginx  (nginx version-1.4.5) | Location based routing. |  | Still not available | Still not available |  |