iOS SDK error handling

- Errors list
- Error handling code example

When stream status 'kFPWCSStreamStatusFailed' is received, stream getStatusInfo method returns the code of error occurred, that can be converted to the description string with streamStatusToString method. Errors occurred during SIP call are handled the same way.

Errors list

Error	Description string
kFPWCSStreamStatusInfo	
kFPWCSStreamStatusInfoFailedByIceError	Failed by ICE error
kFPWCSStreamStatusInfoFailedByIceTimeout	Failed by ICE timeout
kFPWCSStreamStatusInfoFailedByKeepAlive	Failed by ICE keep alive
kFPWCSStreamStatusInfoFailedByDtlsFingerprintError	Failed by DTLS fingerprint error
kFPWCSStreamStatusInfoFailedByDtlsError	Failed by DTLS error
kFPWCSStreamStatusInfoFailedByHlsWriterError	Failed by HLS writer error
FPWCSStreamStatusInfoFailedByRtmpWriterError	Failed by RTMP writer error
kFPWCSStreamStatusInfoFailedByRtpActivity	Failed by RTP activity
kFPWCSStreamStatusInfoStoppedBySessionDisconnect	Stopped by session disconnect
kFPWCSStreamStatusInfoStoppedByRestTerminate	Stopped by rest /terminate
kFPWCSStreamStatusInfoStoppedByPublisherStop	Stopped by publisher stop
kFPWCSStreamStatusInfoStoppedByUser	Stopped by user
kFPWCSStreamStatusInfoFailedByError	Failed by error
kFPWCSStreamStatusInfoFailedToAddStreamToProxy	Failed to add stream to proxy
kFPWCSStreamStatusInfoDistributorStopped	Distributor stopped
kFPWCSStreamStatusInfoPublishStreamIsNotReady	Publish stream is not ready
kFPWCSStreamStatusInfoStreamNotFound	Stream not found
kFPWCSStreamStatusInfoStreamNameAlreadyInUse	Stream name is already in use
kFPWCSStreamStatusInfoMediasessionIdNull	MediaSessionId is null
kFPWCSStreamStatusInfoMediasessionIdAlreadyInUse	MediaSessionId is already in use
kFPWCSStreamStatusInfoSessionNotReady	Session not ready
kFPWCSStreamStatusInfoSessionDoesNotExist	Session does not exist
kFPWCSStreamStatusInfoRtspHasWrongFormat	Rtsp has wrong format
kFPWCSStreamStatusInfoFileHasWrongFormat	File has wrong format
kFPWCSStreamStatusInfoFailedToConnectToRtspStream	Failed to connect to rtsp stream
kFPWCSStreamStatusInfoRtspStreamNotFound	Rtsp stream not found
kFPWCSStreamStatusInfoRtspAgentShutdown	RtspAgent shutdown
kFPWCSStreamStatusInfoStreamFailed	Stream failed
kFPWCSStreamStatusInfoNoCommonCodecs	No common codecs
kFPWCSStreamStatusInfoBadUri	Bad URI
kFPWCSStreamStatusInfoGotExceptionWhileStreamingFile	Got exception while streaming file
kFPWCSStreamStatusInfoRequestedStreamShutdown	Requested stream shutdown

kFPWCSStreamStatusInfoFailedToReadFile	Failed to read file
kFPWCSStreamStatusInfoFileNotFound	File not found
kFPWCSStreamStatusInfoFailedToConnectToOriginStream	Failed to connect to origin stream
kFPWCSStreamStatusInfoCdnStreamNotFound	CDN stream not found
kFPWCSStreamStatusInfoFailedToGetAgentStorage	Failed to get agent storage
kFPWCSStreamStatusInfoAgentServicingOriginStreamIsShuttingDown	Agent servicing origin stream is shutting down
kFPWCSStreamStatusInfoTerminatedByKeepAlive	Terminated by keep-alive
kFPWCSStreamStatusInfoTranscodingRequiredButDisabled	Transcoding is required, but disabled
kFPWCSCallStatusInfo	
kFPWCSCallStatusInfoNormalCallClearing	Normal call hangup
kFPWCSCallStatusInfoFailedBySessionCreation	Failed by session creation
kFPWCSCallStatusInfoFailedByIceError	Failed by ICE error
kFPWCSCallStatusInfoFailedByRtpActivity	Failed by RTP activity
kFPWCSCallStatusInfoFailedByRtmpWriterError	Failed by RTMP writer error
kFPWCSCallStatusInfoFailedByDtlsFingerprintError	Failed by DTLS fingerprint error
kFPWCSCallStatusInfoFailedByDtlsError	Failed by DTLS error
kFPWCSCallStatusInfoFailedByError	Failed by error
kFPWCSCallStatusInfoFailedByRequestTimeout	Failed by request timeout
kFPWCSCallStatusInfoTranscodingRequiredButDisabled	Transcoding is required, but disabled

Error handling code example

As an example. let's take theTwo Way Streaming example code, implementation file ViewController.m

1. Stream publishing and playback error handling

FPWCSApi2Model streamStatusToString(), stream getStatus(), stream getStatusInfo()

```
    view.text = [FPWCSApi2Model streamStatusToString:[stream getStatus]];
    switch ([stream getStatus]) {
        case kFPWCSStreamStatusFailed:
        {
            view.textColor = [UIColor redColor];
            switch ([stream getStatusInfo]) {
                case kFPWCSStreamStatusInfoSessionDoesNotExist:
                    view.text = @"Actual session does not exist";
                    break;
                case kFPWCSStreamStatusInfoStoppedByPublisherStop:
                    view.text = @"Related publisher stopped its stream or lost connection";
                    break;
                case kFPWCSStreamStatusInfoSessionNotReady:
                    view.text = @"Session is not initialized or terminated on play ordinary stream";
                    break;
                case kFPWCSStreamStatusInfoRtspStreamNotFound:
                    view.text = @"Rtsp stream is not found, agent received '404-Not Found'";
                    break;
                case kFPWCSStreamStatusInfoFailedToConnectToRtspStream:
                    view.text = @"Failed to connect to rtsp stream";
                    break;
                case kFPWCSStreamStatusInfoFileNotFound:
                    view.text = @"File does not exist, check filename";
                    break;
                case kFPWCSStreamStatusInfoFileHasWrongFormat:
                    view.text = @"Failed to play vod stream, this format is not supported";
                    break;
                case kFPWCSStreamStatusInfoStreamNameAlreadyInUse:
                    view.text = @"Server already has a publish stream with the same name, try using different
one";
                    break;
            }
            break;
        }
        ...
    }
```