

iOS SDK error handling

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When stream status 'kFPWCSSStreamStatusFailed' 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
kFPWCSSStreamStatusInfo	
kFPWCSSStreamStatusInfoFailedByIceError	Failed by ICE error
kFPWCSSStreamStatusInfoFailedByIceTimeout	Failed by ICE timeout
kFPWCSSStreamStatusInfoFailedByKeepAlive	Failed by ICE keep alive
kFPWCSSStreamStatusInfoFailedByDtlsFingerprintError	Failed by DTLS fingerprint error
kFPWCSSStreamStatusInfoFailedByDtlsError	Failed by DTLS error
kFPWCSSStreamStatusInfoFailedByHlsWriterError	Failed by HLS writer error
FPWCSSStreamStatusInfoFailedByRtmpWriterError	Failed by RTMP writer error
kFPWCSSStreamStatusInfoFailedByRtpActivity	Failed by RTP activity
kFPWCSSStreamStatusInfoStoppedBySessionDisconnect	Stopped by session disconnect
kFPWCSSStreamStatusInfoStoppedByRestTerminate	Stopped by rest /terminate
kFPWCSSStreamStatusInfoStoppedByPublisherStop	Stopped by publisher stop
kFPWCSSStreamStatusInfoStoppedByUser	Stopped by user
kFPWCSSStreamStatusInfoFailedByError	Failed by error
kFPWCSSStreamStatusInfoFailedToAddStreamToProxy	Failed to add stream to proxy
kFPWCSSStreamStatusInfoDistributorStopped	Distributor stopped
kFPWCSSStreamStatusInfoPublishStreamIsNotReady	Publish stream is not ready
kFPWCSSStreamStatusInfoStreamNotFound	Stream not found
kFPWCSSStreamStatusInfoStreamNameAlreadyInUse	Stream name is already in use
kFPWCSSStreamStatusInfoMediasessionIdNull	MediaSessionId is null
kFPWCSSStreamStatusInfoMediasessionIdAlreadyInUse	MediaSessionId is already in use
kFPWCSSStreamStatusInfoSessionNotReady	Session not ready
kFPWCSSStreamStatusInfoSessionDoesNotExist	Session does not exist
kFPWCSSStreamStatusInfoRtspHasWrongFormat	Rtsp has wrong format
kFPWCSSStreamStatusInfoFileHasWrongFormat	File has wrong format
kFPWCSSStreamStatusInfoFailedToConnectToRtspStream	Failed to connect to rtsp stream
kFPWCSSStreamStatusInfoRtspStreamNotFound	Rtsp stream not found
kFPWCSSStreamStatusInfoRtspAgentShutdown	RtspAgent shutdown
kFPWCSSStreamStatusInfoStreamFailed	Stream failed
kFPWCSSStreamStatusInfoNoCommonCodecs	No common codecs
kFPWCSSStreamStatusInfoBadUri	Bad URI
kFPWCSSStreamStatusInfoGotExceptionWhileStreamingFile	Got exception while streaming file
kFPWCSSStreamStatusInfoRequestedStreamShutdown	Requested stream shutdown

kFPWCSSStreamStatusInfoFailedToReadFile	Failed to read file
kFPWCSSStreamStatusInfoFileNotFound	File not found
kFPWCSSStreamStatusInfoFailedToConnectToOriginStream	Failed to connect to origin stream
kFPWCSSStreamStatusInfoCdnStreamNotFound	CDN stream not found
kFPWCSSStreamStatusInfoFailedToGetAgentStorage	Failed to get agent storage
kFPWCSSStreamStatusInfoAgentServicingOriginStreamIsShuttingDown	Agent servicing origin stream is shutting down
kFPWCSSStreamStatusInfoTerminatedByKeepAlive	Terminated by keep-alive
kFPWCSSStreamStatusInfoTranscodingRequiredButDisabled	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 the Two Way Streaming example code, implementation file ViewController.m

1. Stream publishing and playback error handling

```
FPWCSSApi2Model streamStatusToString(), stream getStatus(), stream getStatusInfo()
```

```

view.text = [FPWCSEApi2Model streamStatusToString:[stream getStatus]];
switch ([stream getStatus]) {
    case kFPWCSSStreamStatusFailed:
    {
        view.textColor = [UIColor redColor];
        switch ([stream getStatusInfo]) {
            case kFPWCSSStreamStatusInfoSessionDoesNotExist:
                view.text = @"Actual session does not exist";
                break;
            case kFPWCSSStreamStatusInfoStoppedByPublisherStop:
                view.text = @"Related publisher stopped its stream or lost connection";
                break;
            case kFPWCSSStreamStatusInfoSessionNotReady:
                view.text = @"Session is not initialized or terminated on play ordinary stream";
                break;
            case kFPWCSSStreamStatusInfoRtspStreamNotFound:
                view.text = @"Rtsp stream is not found, agent received '404-Not Found'";
                break;
            case kFPWCSSStreamStatusInfoFailedToConnectToRtspStream:
                view.text = @"Failed to connect to rtsp stream";
                break;
            case kFPWCSSStreamStatusInfoFileNotFound:
                view.text = @"File does not exist, check filename";
                break;
            case kFPWCSSStreamStatusInfoFileHasWrongFormat:
                view.text = @"Failed to play vod stream, this format is not supported";
                break;
            case kFPWCSSStreamStatusInfoStreamNameAlreadyInUse:
                view.text = @"Server already has a publish stream with the same name, try using different
one";
                break;
        }
        break;
    }
    ...
}

```