

#parseString(XmlPullParser,String,String):String

+getBufferedPositionUs():long

-restartFrom(long):void

-clearCurrentLoadable():void

-updateLoadControl():void

-getNextLoadPositionUs():long -resumeFromBackOff():void -maybeStartLoading():void -doChunkOperation():void

-isMediaChunk(Chunk):boolean -isPendingReset():boolean -getRetryDelayMillis(long):long

-notifyLoadCanceled(long):void -notifyLoadError(IOException):void -notifyUpstreamDiscarded(long,long):void

-usToMs(long):long

long,long,long):void

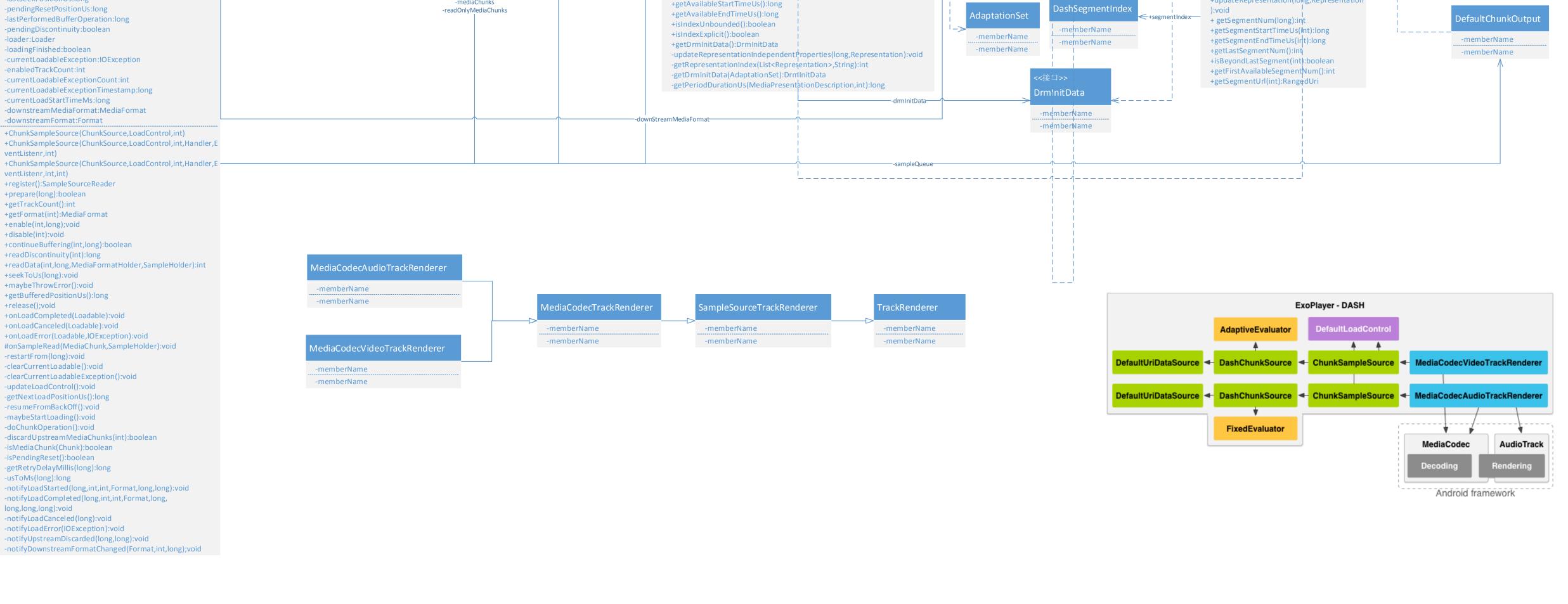
+onLoadCompleted(Loadable):void +onLoadCanceled(Loadable):void

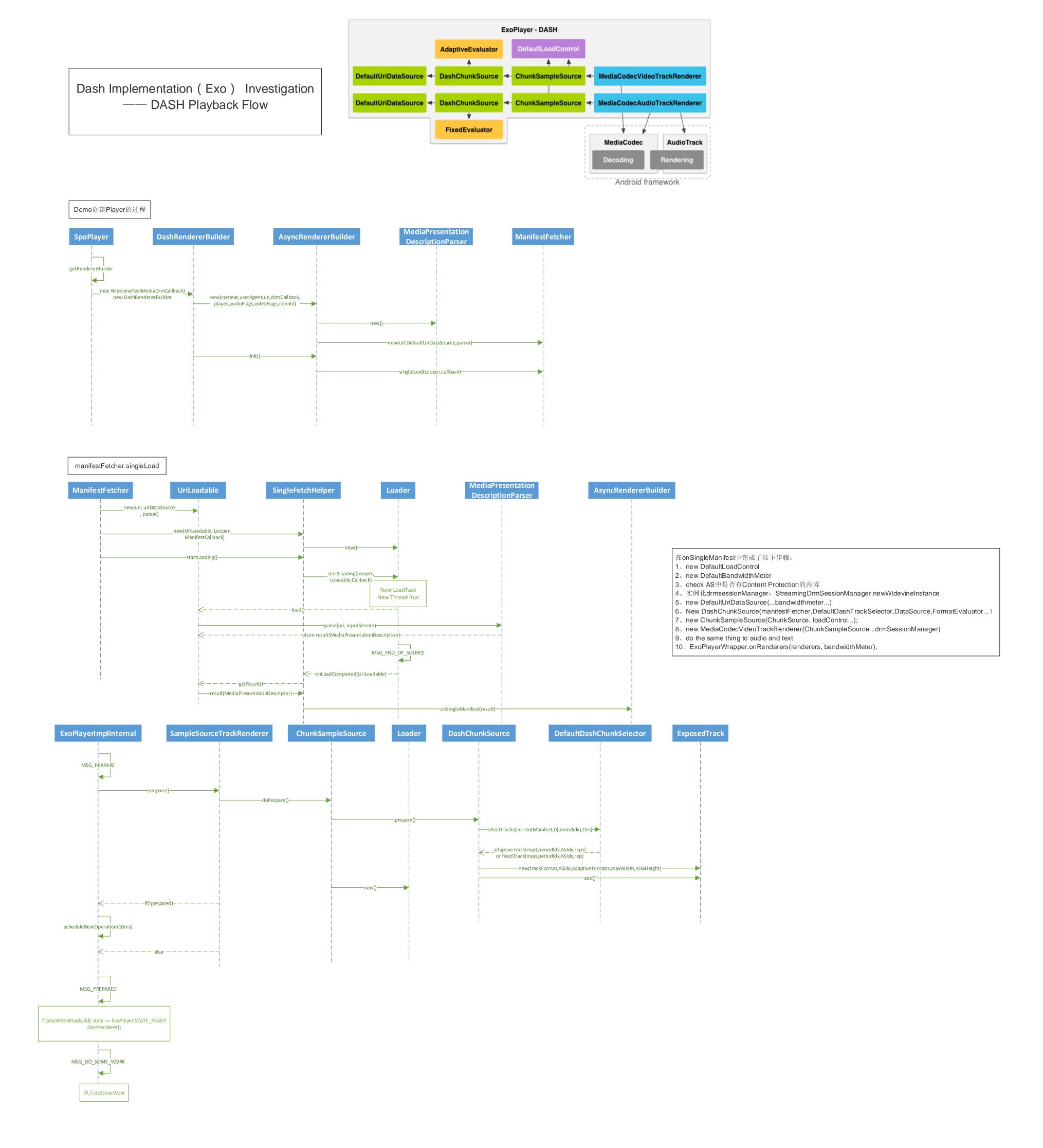
+onLoadError(Loadable,IOException):void

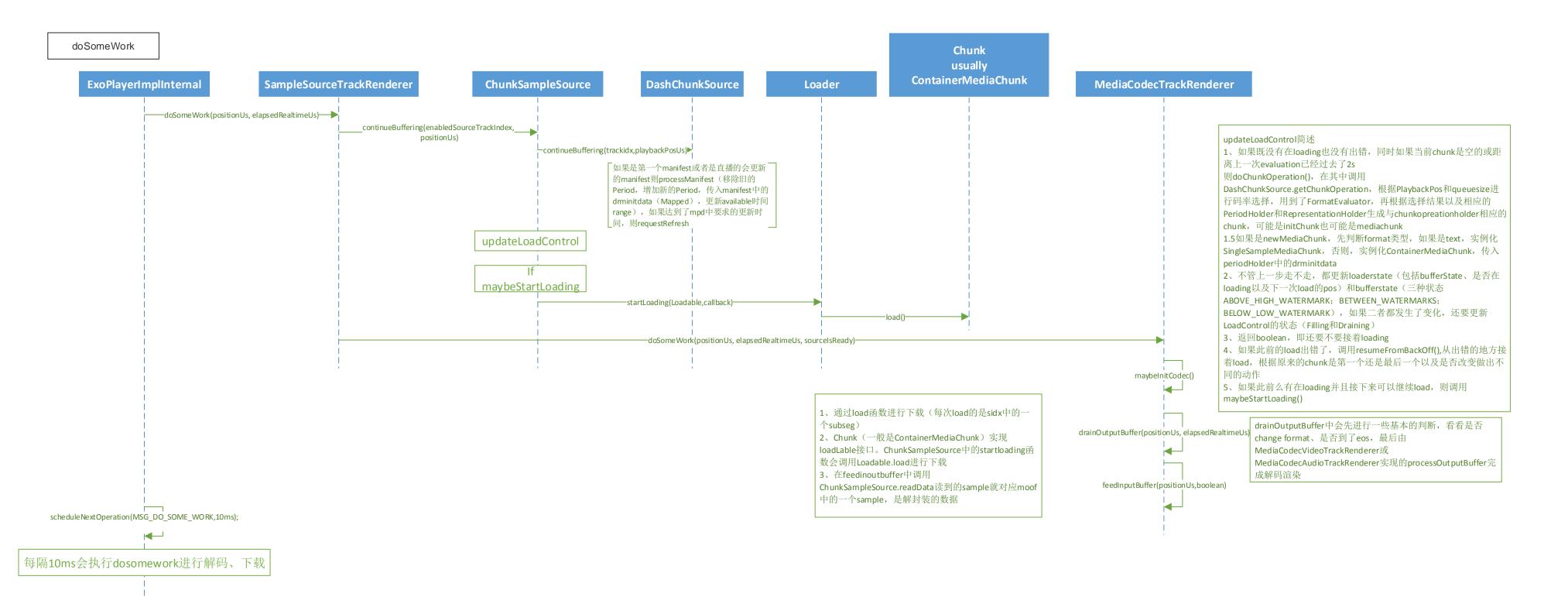
-clearCurrentLoadableException():void

-discardUpstreamMediaChunks(int):boolean

+release();void

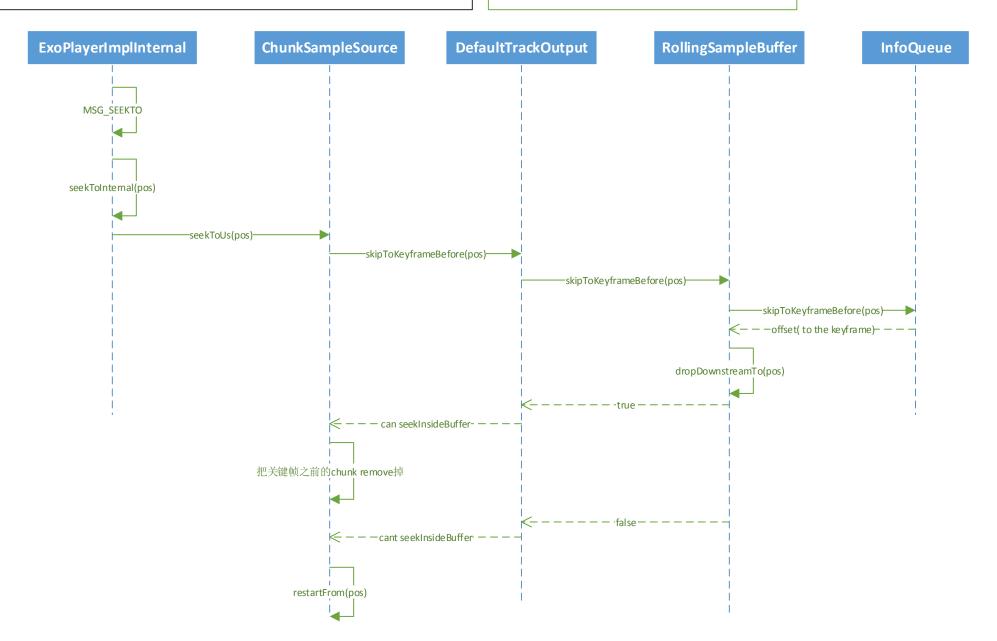






Dash Implementation (Exo) Investigation —— DASH Seek Flow

Seek流程简述:假设需要seek到pos位置,则先找到在pos之前且距pos最近的keyframe位置,设为posA,如果posA在buffer中,直接切换过去,如果不在,则从posA位置重新开始一个playback流程



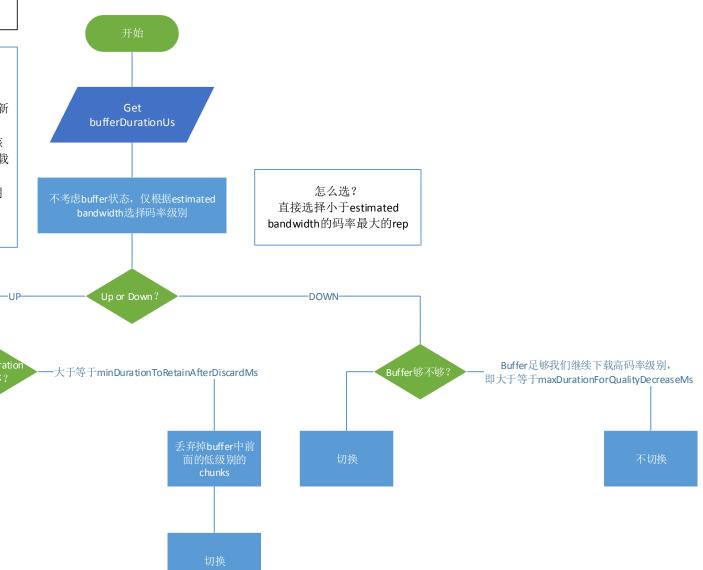
Dash Implementation (Exo) Investigation — Default Adaptive Algorithm

定义了三个阈值

- 1、minDurationForQualityIncreaseMs=10000: 要想切换更高的format级别,buffer至少要有这么多的数据,否则可能在下载新的更高级别rep的过程中buffer耗尽
- **2**、maxDurationForQualityDecreaseMs=25000:如果buffer中的数据量超过该值,就算带宽降低了,也不用切换到低码率级别,因为buffer的量足够接着下载高码率级别
- **3**、minDurationToRetainAfterDiscardMs=25000:有时候如果切换到了一个明显更高的级别,需要remove掉buffer中原有的一些chunk,腾出空间,但是buffer中要始终保持至少这么多数据

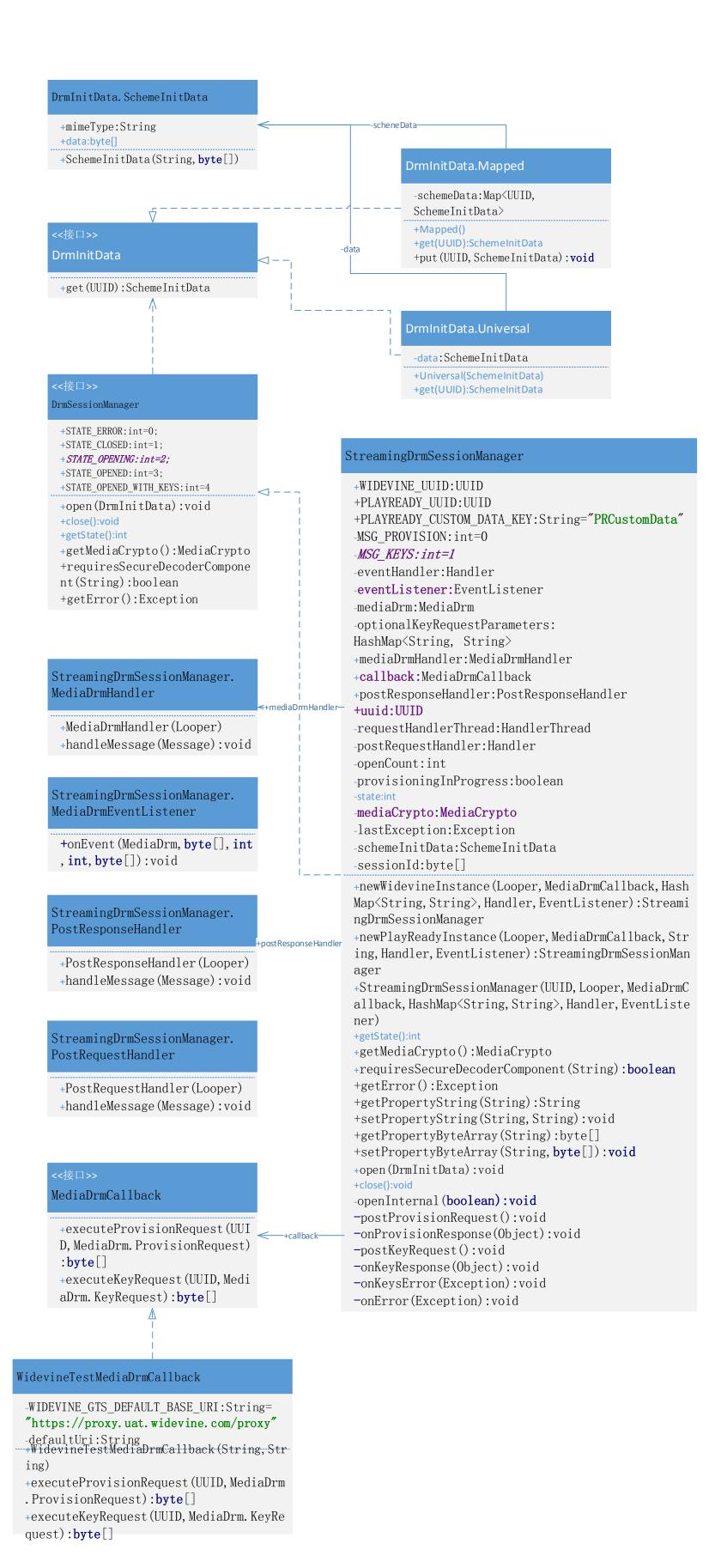
Buffer不够下载高码率分片了

即小于minDurationForQualityIncreaseUs





Dash Implementation (Exo) Investigation —— DRM Related Things



从ContentProtection元素 中解析使用的DRM方法以 及相应的初始信息

