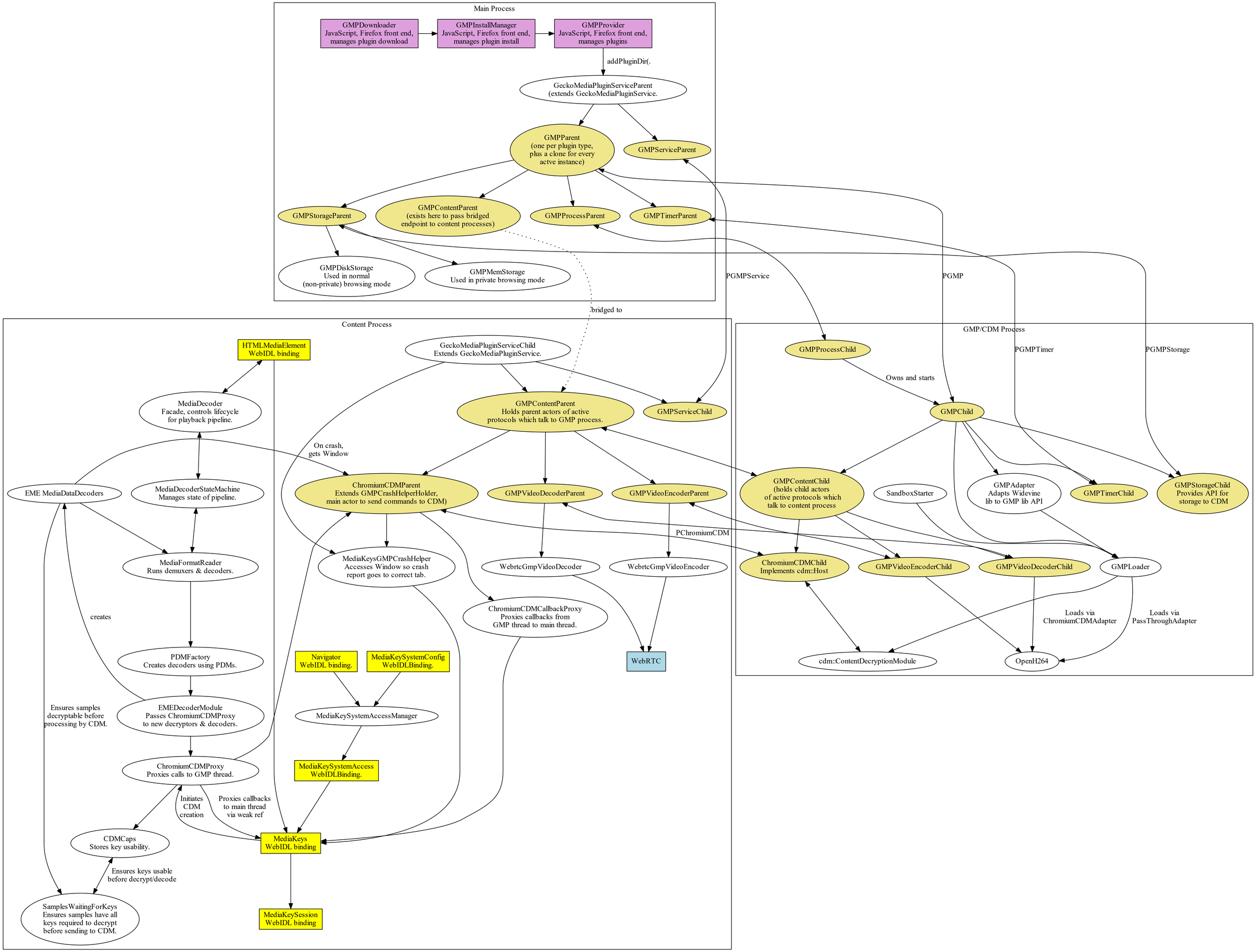
Main Process
GMPDownloader
JavaScript, Firefox front end, manages plugin download
GMPInstallManager
JavaScript, Firefox front end, manages plugin install
GMPProvider
JavaScript, Firefox front end, manages plugins
addPluginDir(.
GeckoMediaPluginServiceParent
(extends GeckoMediaPluginService.
GMPParent
(one per plugin type, plus a clone for every actve instance)
GMPServiceParent
GMPStorageParent
GMPContentParent
(exists here to pass bridged endpoint to content processes)
GMPProcessParent
GMPTimerParent
GMPDiskStorage
Used in normal (non-private) browsing mode
GMPMemStorage
Used in private browsing mode
PGMPService
PGMP
bridged to
Content Process
HTMLMediaElement
WebIDL binding
GeckoMediaPluginServiceChild
Extends GeckoMediaPluginService.
MediaDecoder
Facade, controls lifecycle for playback pipeline.
GMPContentParent
Holds parent actors of active protocols which talk to GMP process.
GMPServiceChild
On crash, gets Window
EME MediaDataDecoders
MediaDecoderStateMachine
Manages state of pipeline.
ChromiumCDMParent
Extends GMPCrashHelperHolder, main actor to send commands to CDM)
GMPVideoDecoderParent
GMPVideoEncoderParent
PChromiumCDM
MediaFormatReader
Runs demuxers & decoders.
MediaKeysGMPCrashHelper
Accesses Window so crash report goes to correct tab.
WebrtcGmpVideoDecoder
WebrtcGmpVideoEncoder
creates
ChromiumCDMCallbackProxy
Proxies callbacks from GMP thread to main thread.
PDMFactory
Creates decoders using PDMs.
Navigator
WebIDL binding.
MediaKeySystemConfig
WebIDLBinding.
WebRTC
Ensures samples decryptable before processing by CDM.
EMEDecoderModule
Passes ChromiumCDMProxy to new decryptors & decoders.
MediaKeySystemAccessManager
ChromiumCDMProxy
Proxies calls to GMP thread.
MediaKeySystemAccess
WebIDLBinding.
Initiates CDM creation
Proxies callbacks to main thread via weak ref
CDMCaps
Stores key usability.
MediaKeys
WebIDL binding
Ensures keys usable before decrypt/decode
SamplesWaitingForKeys
Ensures samples have all keys required to decrypt before sending to CDM.
MediaKeySession
WebIDL binding
GMP/CDM Process
GMPProcessChild
PGMPTimer
PGMPStorage
Owns and starts
GMPChild
GMPContentChild
(holds child actors of active protocols which talk to content process
SandboxStarter
GMPAdapter
Adapts Widevine lib to GMP lib API
GMPTimerChild
GMPStorageChild
Provides API for storage to CDM
ChromiumCDMChild
Implements cdm::Host
GMPVideoEncoderChild
GMPVideoDecoderChild
GMPLoader
Loads via ChromiumCDMAdapter
Loads via PassThroughAdapter
cdm::ContentDecryptionModule
OpenH264