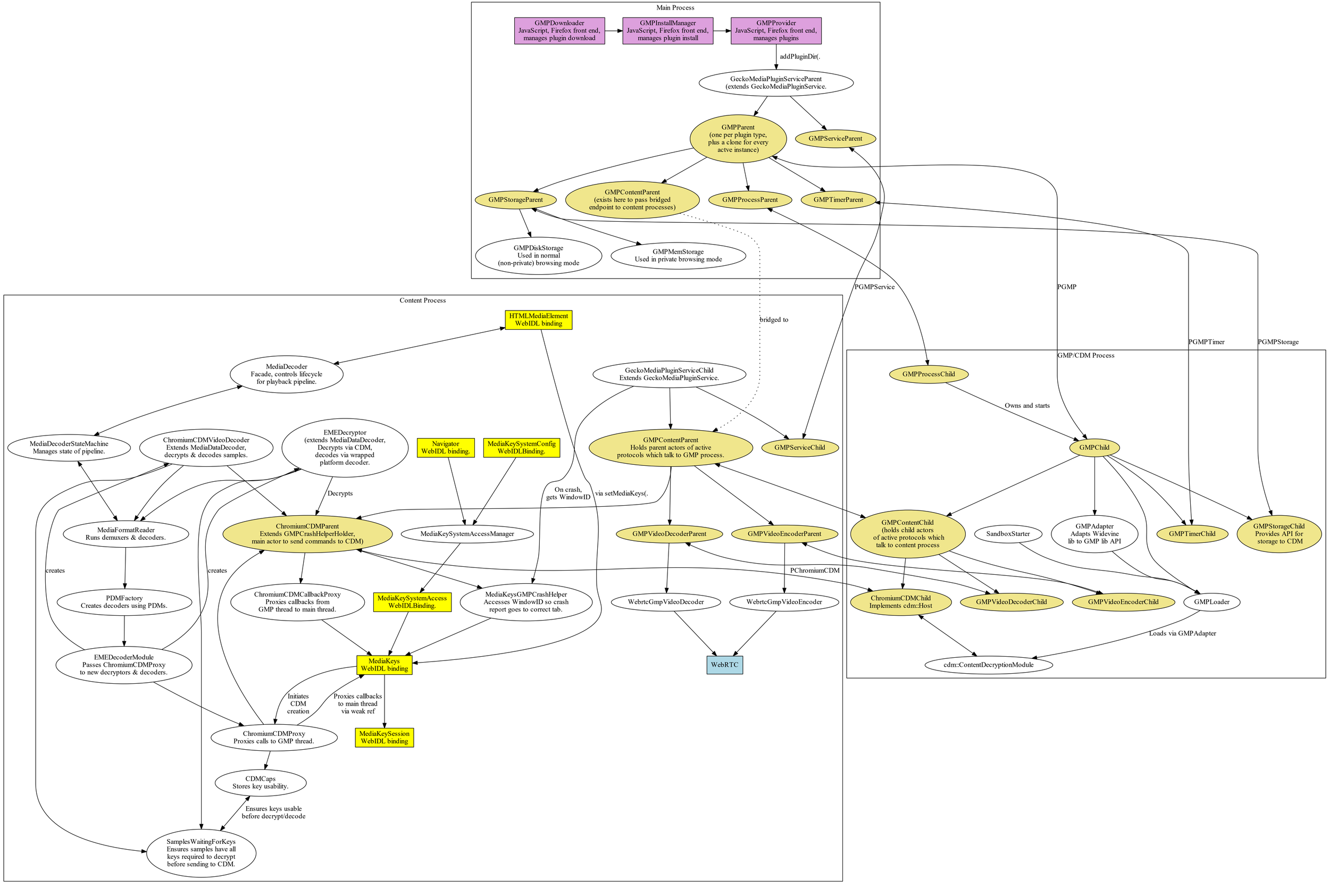
Main Process
GMPDownloader
JavaScript, Firefox front end,
manages plugin download
GMPInstallManager
JavaScript, Firefox front end,
manages plugin install
GMPProvider
JavaScript, Firefox front end,
manages plugins
addPluginDir(.
GeckoMediaPluginServiceParent
(extends GeckoMediaPluginService.
GMPParent
(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
PGMPTimer
PGMPStorage
bridged to
Content Process
HTMLMediaElement
WebIDL binding
MediaDecoder
Facade, controls lifecycle
for playback pipeline.
GeckoMediaPluginServiceChild
Extends GeckoMediaPluginService.
MediaDecoderStateMachine
Manages state of pipeline.
ChromiumCDMVideoDecoder
Extends MediaDataDecoder,
decrypts & decodes samples.
EMEDecryptor
(extends MediaDataDecoder,
Decrypts via CDM,
decodes via wrapped
platform decoder.
Navigator
WebIDL binding.
MediaKeySystemConfig
WebIDLBinding.
GMPContentParent
Holds parent actors of active
protocols which talk to GMP process.
GMPServiceChild
Decrypts
On crash,
gets WindowID
via setMediaKeys(.
MediaFormatReader
Runs demuxers & decoders.
ChromiumCDMParent
Extends GMPCrashHelperHolder,
main actor to send commands to CDM)
MediaKeySystemAccessManager
GMPVideoDecoderParent
GMPVideoEncoderParent
creates
creates
PChromiumCDM
PDMFactory
Creates decoders using PDMs.
ChromiumCDMCallbackProxy
Proxies callbacks from
GMP thread to main thread.
MediaKeySystemAccess
WebIDLBinding.
MediaKeysGMPCrashHelper
Accesses WindowID so crash
report goes to correct tab.
WebrtcGmpVideoDecoder
WebrtcGmpVideoEncoder
EMEDecoderModule
Passes ChromiumCDMProxy
to new decryptors & decoders.
MediaKeys
WebIDL binding
WebRTC
Initiates
CDM
creation
Proxies callbacks
to main thread
via weak ref
ChromiumCDMProxy
Proxies calls to GMP thread.
MediaKeySession
WebIDL binding
CDMCaps
Stores key usability.
Ensures keys usable
before decrypt/decode
SamplesWaitingForKeys
Ensures samples have all
keys required to decrypt
before sending to CDM.
GMP/CDM Process
GMPProcessChild
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
GMPVideoDecoderChild
GMPVideoEncoderChild
GMPLoader
Loads via GMPAdapter
cdm::ContentDecryptionModule