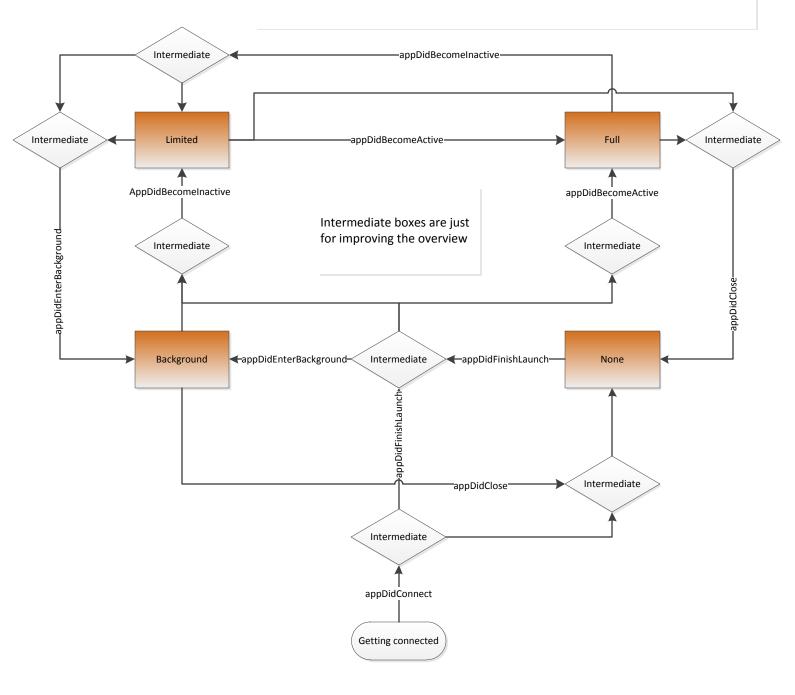


<u>iOS:</u> (no equivalent exist) -> SDL:appDidConnect (telling the app it got connected and registered) <u>iOS:</u> (no equivalent exist) -> SDL:appDidDisconnect (telling the app it got disconnected or unregistered)

<u>iOS:applicationWillFinishLaunchWithOptions -> SDL: (no equivalent planned)</u> (Can be added between onProxyOpened and RegisterAppInterface) (Used hardly ever in the wild therefore not planned) iOS:applicationDidFinishLaunchWithOptions -> SDL:appDidFinishLaunch (called on first transition to any HMI level other than NONE) iOS:applicationWillTerminate -> SDL: appDidClose (HMI NONE can be treated as an unlaunched app) (also called when getting connected and immediately entering any level other than NONE)

iOS:applicationDidEnterBackground -> SDL:appDidEnterBackground (transition to HMI BACKGROUND) iOS:applicationWillEnterForeground -> SDL:appDidBecomeInactive iOS:applicationWillResignActive -> SDL:appDidBecomeInactive (transition to HMI LIMITED) (similar to the state on iOS between foreground and background) iOS:applicationDidBecomeActive -> SDL:appDidBecomeActive (transition to HMI FULL, the real foreground state)



Similar to SDLLifecycleManager

SDLApplication (class)

+ sharedApplication

+ configuration: SDLApplicationConfiguration - proxy: SDLProxy

- + windows: [SDLWindow] { get; }
- + keyWindow: SDLWindow { get; }
- + delegate: id<SDLApplicationDelegate>

+ menuManager: SDLMenuManager

+ localization: SDLLocalization

+ language: Language

- + systemVersion: String
- + sdlVersion: String
- + msgVersion: SDLMsgVersion
- + vehicleType: SDLVehicleType
- + supportedDiagnosticModes: [Int]
- + prerecordedSpeech: [PrerecordedSpeech]
- + speechCapabilities: [SpeechCapabilities]
- + vrCapabilities: [VrCapabilities]
- + audioPassThruCapabilities: [AudioPassThruCapabilities]
- + hmiZoneCapabilities: [HmiZoneCapabilities]
- + buttonCapabilities: [ButtonCapabilities]
- + hmiCapabilities: HMICapabilities
- + displayLanguage: Language
- + displayCapabilities: DisplayCapabilities
- + presetBankCapabilities: PresetBankCapabilities
- + softButtonCapabilities: [SoftButtonCapabilities]

Similar to SDLManagerDelegate Equivalent notifications for notification center

SDLApplicationDelegate (protocol)

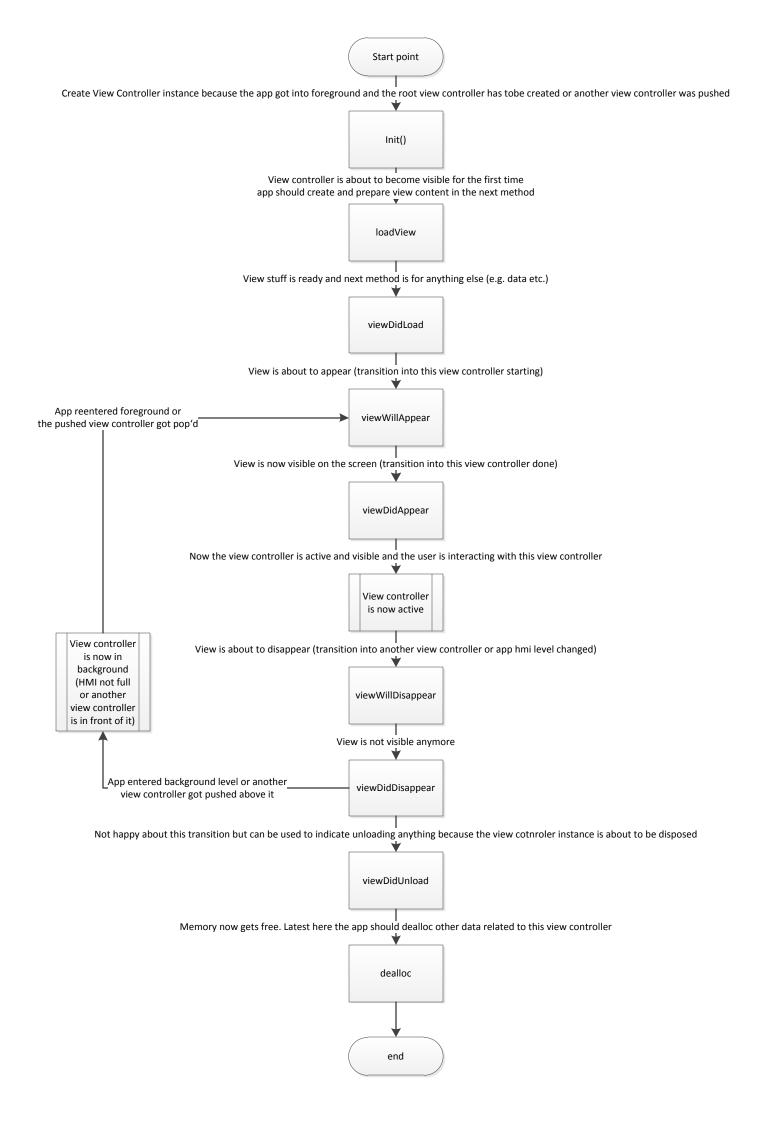
- + appDidConnect(app: SDLApplication)
- + appDidDisconnect(app: SDLApplication)
- + appDidFinishLaunch(app: SDLApplication) + appDidClose(app: SDLApplication)
- + appDidEnterBackground(app: SDLApplication)
- + appDidBecomeInactive(app: SDLApplication)
- + appDidBecomeActive(app: SDLApplication)
- + appWillChangeRegistration(app: SDLApplication) + appDidChangeRegistration(app: SDLApplication)

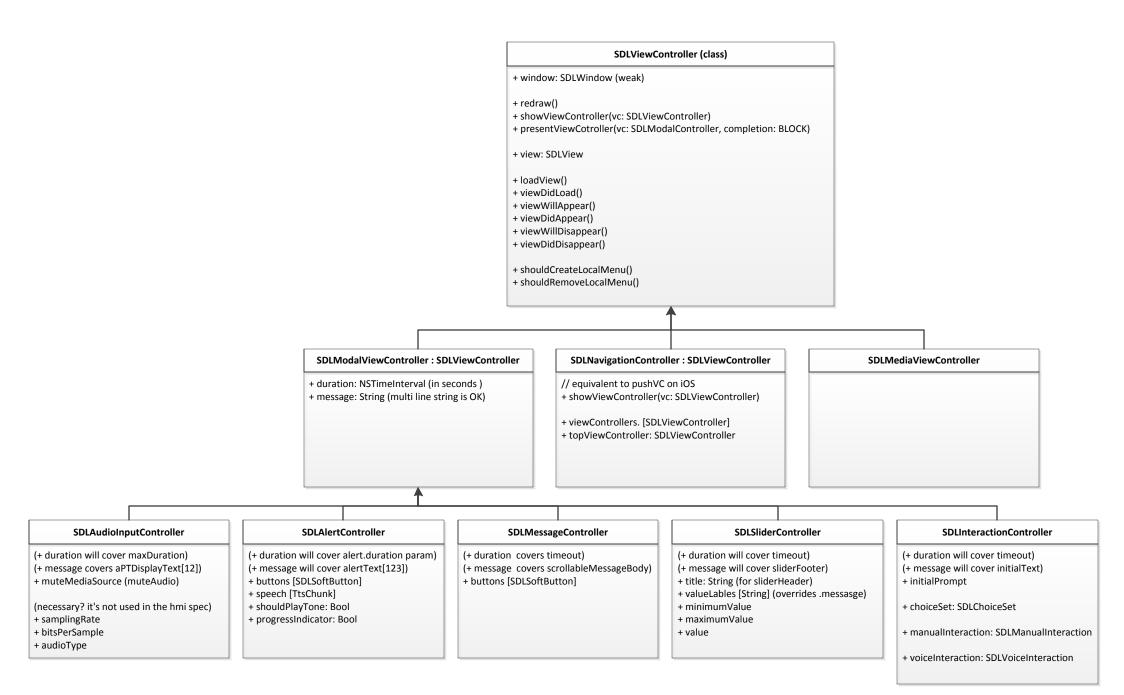
SDLApplicationConfiguration

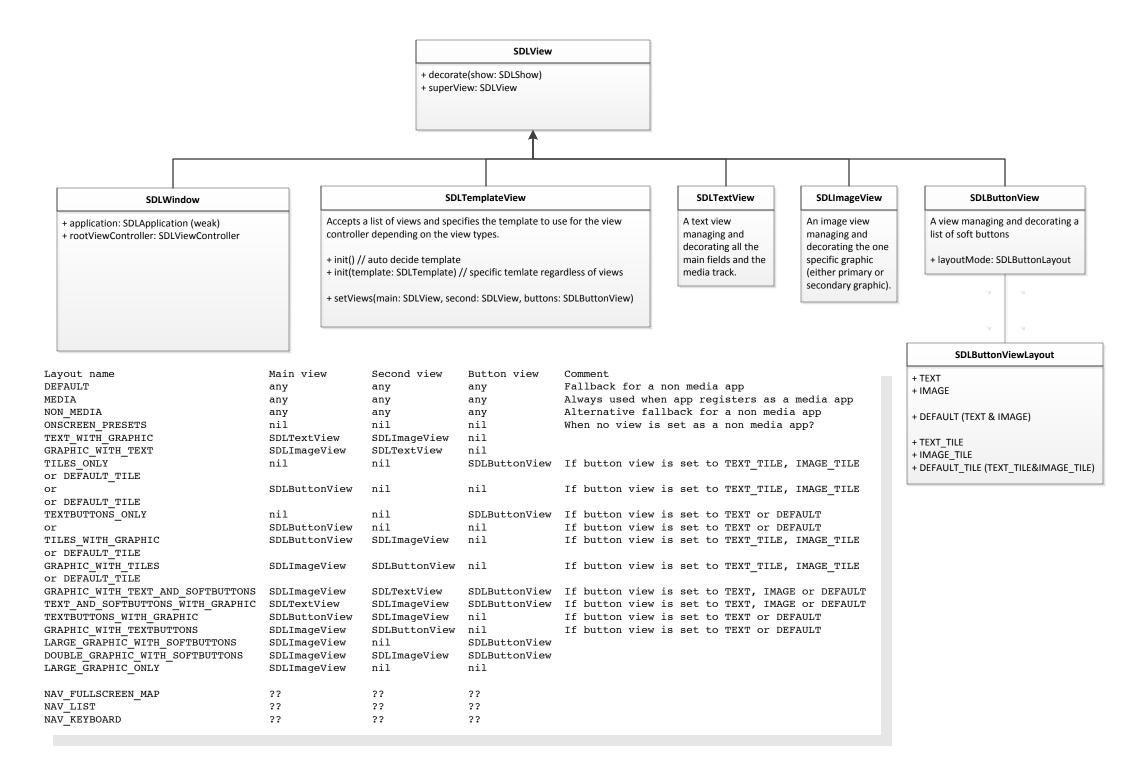
- + appName: String
- + shortAppName: String
- + speechAppName: [SDLTTSChunk]
- + voiceRecognitionAppNames: [String]
- + appId: String
- + applcon: SDLFile
- + tcpDebug (Mode | IPAddress | Port)
- + resumeHash (TODO how to support consecutive cycles)
- + appType: SDLAppHMIType (includes isMedia type)
- + language: SDLLanguage (needed? Why not auto set or use first element of supported languages)
- + languagesSupported: [SDLLanguage]
- + securityManager [SDLSecurityType.Class]
- + logOutputSettings: SDLLogOutput (bitmask)
- deviceInfo: SDLDeviceInfo
- appInfo: SDLAppInfo

+ lockScreenConfiguration

SDLApplicationMain(principalClass, delegateClass, configuration)







SDLChoiceSet: NSMutableOrderedSet<SDLChoiceItem>

+ dynamicSet: Bool

If dynamic it will treat internally each choice Item as a separate interaction choice set. This way the app can reuse each choice item in any desired order (e.g. spotify and "recently played" playback queues).

This can dramatically improve the performance in specific use cases and makes it extremely easy for the app developer when interacting with a choice set that receives only small but recent changes.

Limitation is that only 100 choice items can be performed within an interaction (with some rare exceptions).

It not dynamic this choice set can contain > 100 items which are divided internally to match API limitations

SDLChoiceSetManager

- choiceSets: [Int: SDLChoiceSetInternal]

+ createChoiceSet(SDLChoiceSet) Creates one or more choice sets but with respect to the existing ones (or those that are being created).

SDLChoiceSetInternal

+ choiceSet: [Int: String] + status: (Creating or Created)

The first int is the choice set id that contains multiple choices. Each choice is described by the unique id and name.

A choice can occur multiple times in different sets. Therefore they will have different choice ids.

SDLChoiceItem

+ choiceName: String (internal identifier)

- + text
- + detailedText
- + rightHandText
- + voiceCommands: [String]
- + image: SDLImage
- + rightHandImage: SDLImage

SDLManualInteraction

+ layout: SDLInteractionLayout

+ keyboardProperties: SDLKeyboardProperties

SDLInteractionLayout

- + LIST + TILE
- + KeyboardOnly

SDLVoiceInteraction

+ helpPrompt

+ timeoutPrompt

+ helpItems

Work in progress

SDLMenultem
- id: Int + name: String + index: Int
- generateID()

SDLMenu

SubMenus but also the root menu (defining the menu name property in global properties)

+ items: [SDLMenultem]

+ action (BLOCK)	+ action (BLOCK)	

SDLMenuManager

- + beginLocalMenuTransaction()
- + beginGlobalMenuTransaction()

SDLGlobalPropertiesManager

- + helpPrompt + timeoutPrompt
- + voiceHelpItems

Work in progress