OEM specific HID architecture overview

HU

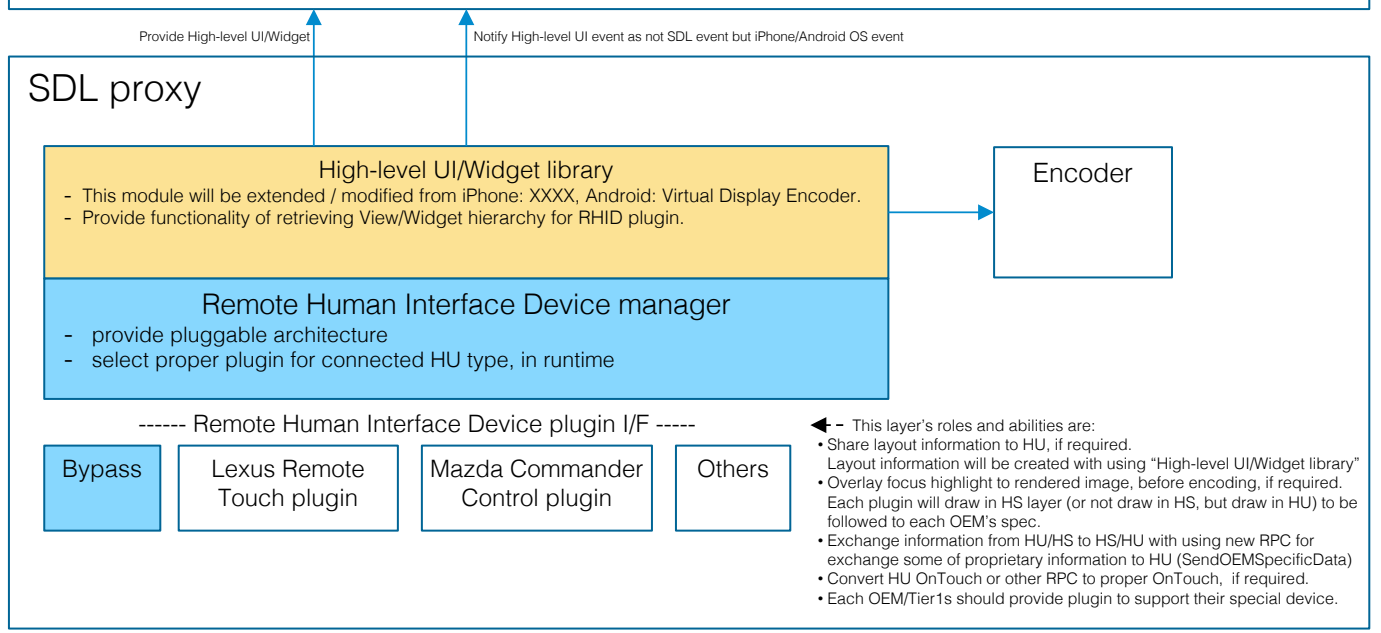
SDL HMI
- Handle HU specialized device. Properly interpret special devices' event to SDL RPC. If required, proprietary RPC shall be used. The RPC can be handled by proper plugin.

SDL core
- Unnecessary to add new RPC (SDL Core 4.4 can be used)

Specific Device

HS

SDL app
- Unnecessary to customize for each HU's special device
- Easy to migrate iOS/Android app to SDL VPM support
- Unnecessary to draw focus highlight
- Unnecessary to control focus movement (If app hope to control then, it may be controlled)
- If Apps using themselves UI/Widget (current Sygic app) then Apps must be customized with using each plugin directly.



OEM specific HID architecture Alternative#1

Alternative #1: No new RPCs are added to support the plug-in interface. Rather, SystemRequest and other existing RPCs will be repurposed. Since the custom behaviors will be encapsulated in the plug-in and will only work in the repurposed way with the OEM head unit, there is no impact on other SDL implementations.

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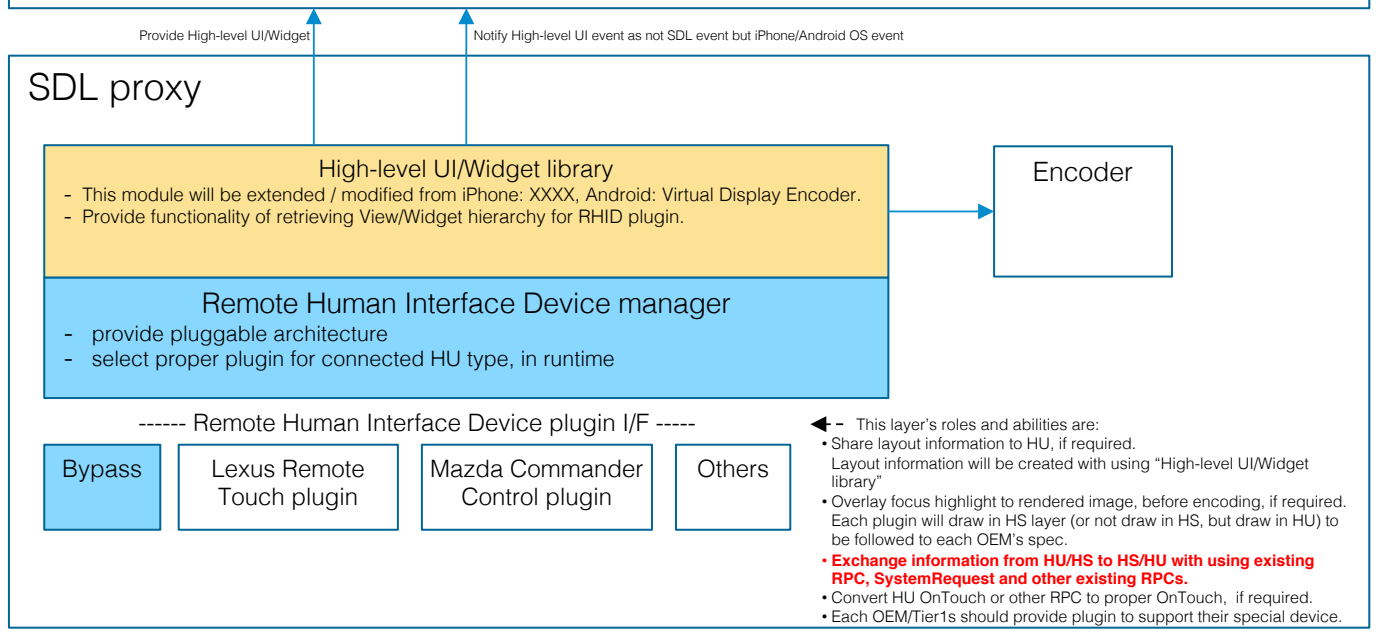

OEM specific HID architecture Alternative#2

Alternative #2: All of I/F which plug-in requires, will be implemented as MOBILE RPC. Plugin architecture will not be required, SDL HMI may be implemented OEM specific device control with using these RPC. However, this functionalities may be depend on Android/iOS architecture. So, it will be difficult to generalize because of another architecture.