

IVI-EG

1.Apr.2021
TOYOTA MOTOR CORPORATION
Woven Alpha, Inc.

■ Plan

#	date	Discussion Topics
1	Dec. 8, 2020	Kickoff, LifecycleManagement,
2	Jan. 7, 2021	LifecycleManagement, HelathMonitoring, + “HAL”, <i>Yocto Recipe</i>
3	Jan. 21, 2021	HelathMonitoring, PowerManagement, + α
4	Feb. 4, 2021	PowerManagement, AppFW related, Quick introduction to TestFW from Jan-Simon,

5	Apr. 1, 2021	PowerManagement(10min), Feature plan task(related with Virt-EG)(10min), +α

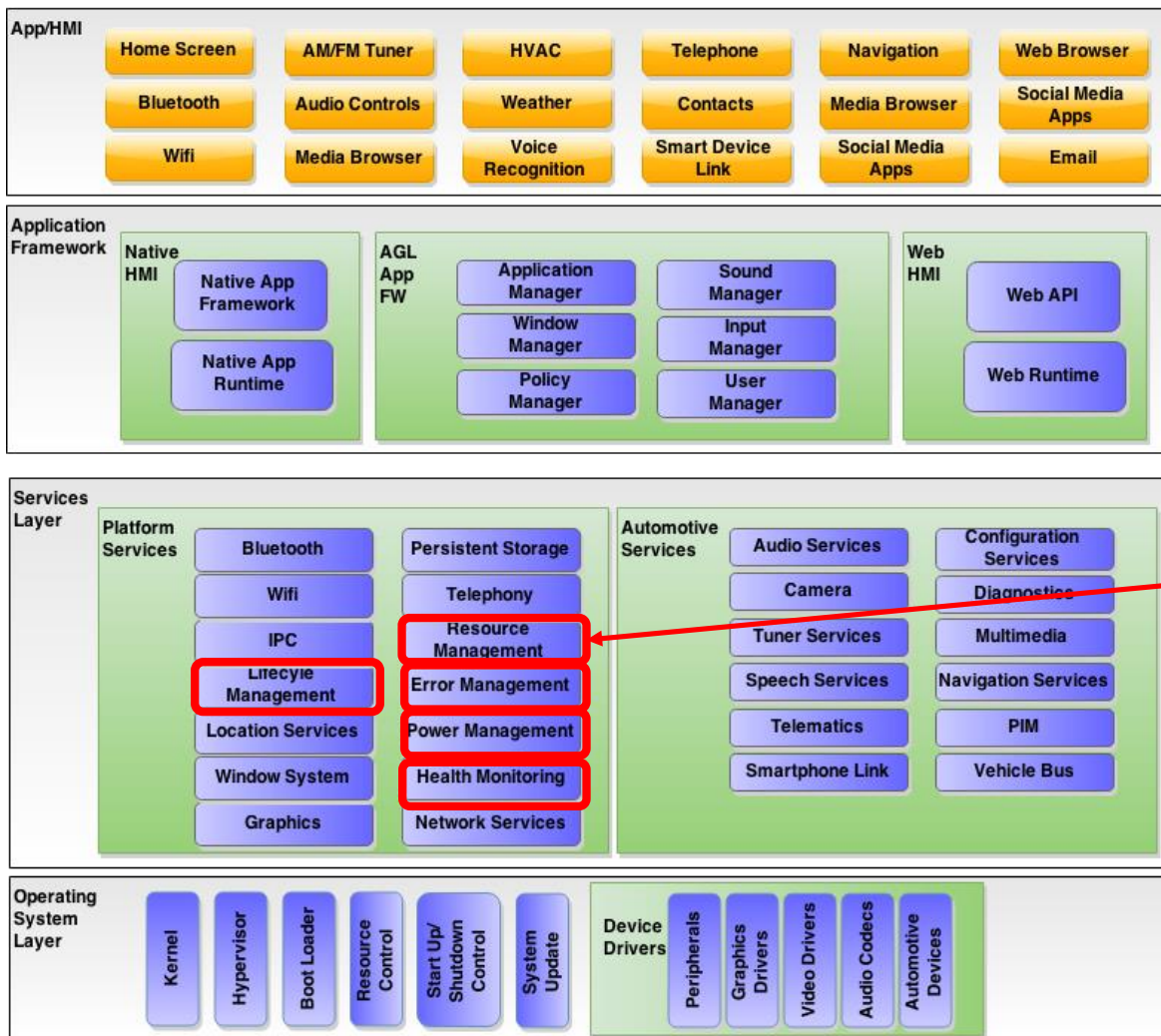
■ In Trial period, we contrituted Basesystem.

■ Along to the activity, we've explained the features.

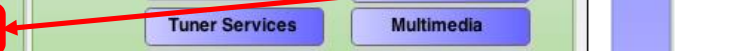
- At this time, I will explain Power Management feature.

Implementation in Production Readiness

Architecture Diagram in AGL Spec ver1.0



- System Manager
 - Health Monitoring
 - Lifecycle Management
 - Power Management

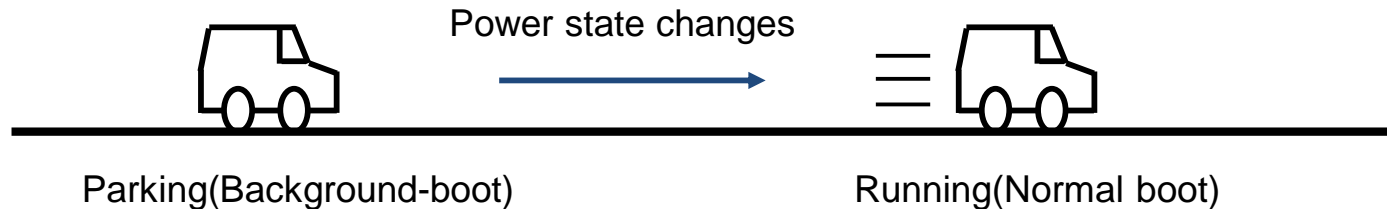


■ What is Power Management?

- The function manages Power state transition

■ Related product use cases (state transition)

e.g.)



■ When the situation above,

- Power service sends the power state transition request information to system_manager.
 - Transition states : Normal-boot, Pre-boot, Background-boot, Shutdown
 - System manager sends power state transition request for resident_service.
 - System_manager sends the completion notification to Power service.
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- Why is such a power state change necessary?
 - Because the functions to be controlled vary depending on the state of the power supply.
 - These change depending on the car model(OEM), grade, and type of electric transmission device.
- In IVI, for example, there are the functions which are required by OEM when the power status as follows.

Shutdown(no power on) : nothing

Pre-boot : SoC, memory, BT/Wifi (because of setup needs)

Background-boot : IVI display works (includes Pre-boot state)

Normal-boot : All (e.g. radio antenna will be powered)

- IVI-008 task in the Feature planning sheet
 - Adapt Product Readiness HAL to VirtIO I/F to separate HAL implementation from device driver implementation (related to VIRT-003)
 - What is needed to proceed the task?(clarifies AI)
 - What is the most important (really needed) for AGL?
 - At next SAT, Jerry-san explains the each needs the prioritization
 - At 22 SAT, collect the prioritized list and make prioritization.
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