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Android for Wearables vs. Linux Android

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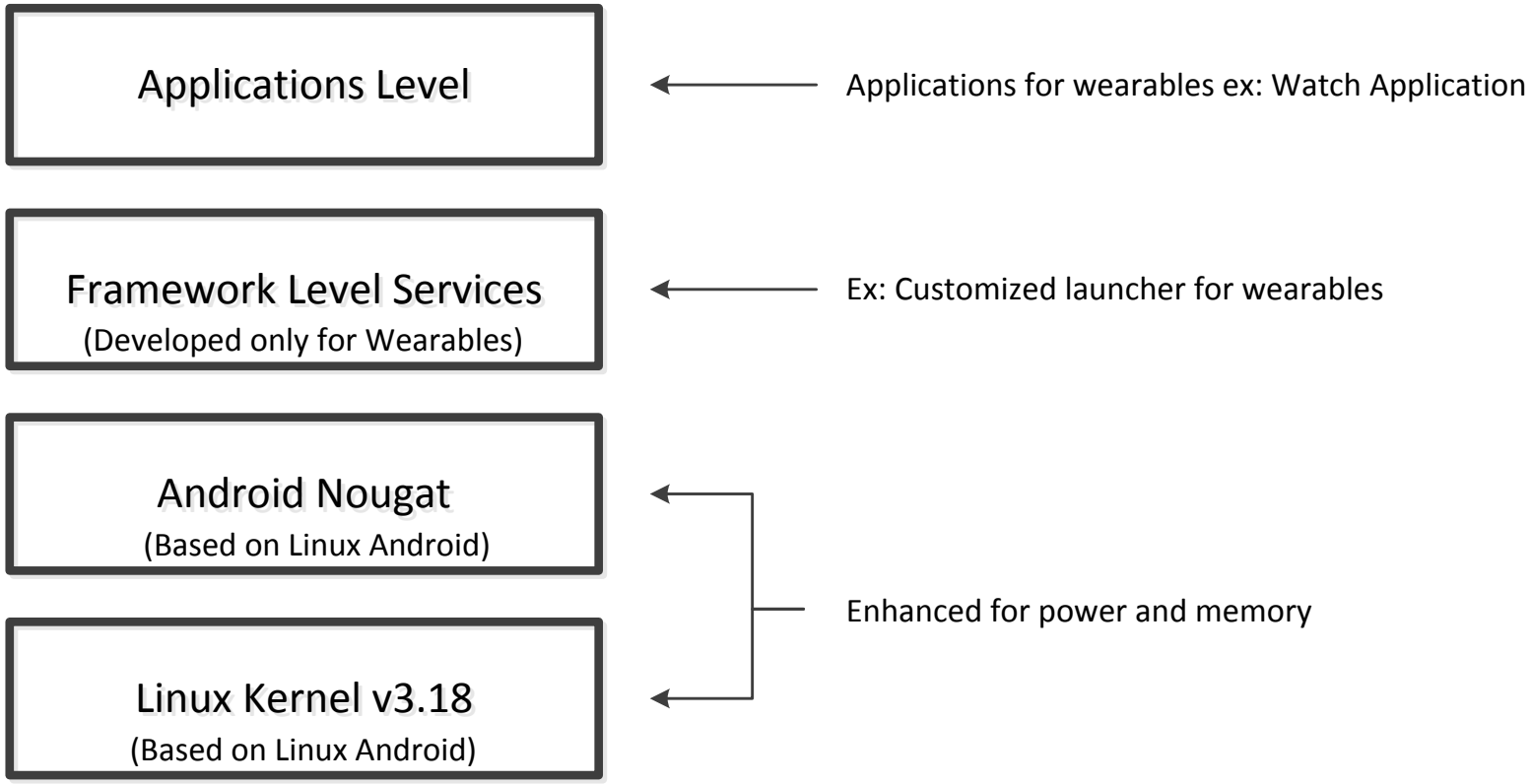
Android for Wearables

- Android for Wearables (LAW) is based on Android Nougat and is typically used on wearable devices such as smart watches. It is enhanced for smaller battery capacities, RAM size, and display sizes
- Some framework level services in Android (LA) are leveraged in Android for Wearables
  - Since wearable devices have limited resources, services are selectively picked. Services that are not required to be running are left out to reduce load
- Main features of Android for Wearables:
  - Display that is always on to show time, heart rate, notifications, etc.
  - Able to receive alerts from a companion device

High Level Architecture



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- Most use cases on LAW are low in complexity therefore, the following are some limitations and requirements:
  - Memory Footprint
    - Typical wearable devices have smaller RAM compared to smartphones and tablets. Most wearable devices have 512MB
    - The number of services that can be executed at a given time is limited due to a smaller RAM
  - Storage Requirements
    - It is recommended to have 4GB of storage for wearable devices
  - Power Limitations
    - CPU and GPU frequency is reduced to meet power and performance requirements
    - CPU cores is set to 2 once boot is complete
- Applications
  - UIModeType is set to watch on applications running on Android for Wearables. This enables watch style UI navigations

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Questions?

Please contact sales@intrinsyc.com

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