

## Local Wireless Digital Flow

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### Organization: Kone

**Overview:** KONE has built a digital platform enabling the users to call the elevators wirelessly. Our Open APIs can be easily integrated with 3<sup>rd</sup> party solutions. Remote call giving from mobile, calling the elevator from home before leaving can be easily achieved now. There are still challenges in this area when the connectivity and cost are the main concerns. A local reliable wireless solution to address few concerns is expected from Kone.

**Current Challenges:** The elevator components and main controller is now connected using wired interfaces. With the existing architecture the passengers can give a destination call using DOP(Destination Operating Panel) in advance before entering inside the car. DOPs are connected to Kone controller via ethernet interface, installed in each floor at interested places. However, the solution is costly and requires proper installation. A Local wireless medium from controller to other components can replace the existing local architecture which is costly to establish.

**Business Requirements:** Technology Partner. WIFI network throughout the elevator shaft and floor lobbies. Any wireless connectivity enabled device should be able to connect and communicate to our controller in the created network. Single SSID, deterministic and adjustable WIFI range in each floors. Extendable to use with any WIFI enabled device inside the building. Cost effective and remotely configurable. Existing building internet should be possible to give to this network. A mobile application on connecting to this WIFI network should make calls automatically.

**Use cases:** 1. Local remote call from a mobile phone or WIFI enabled terminal. 2. Send sensor data to cloud connecting to the WIFI network from any interested place in the elevator system.