

Challenges – Requirements Idea 1

Advantages	Disadvantages
Wi-Fi	
<ul style="list-style-type: none"> - Easy for beginners - No need of controller - Many devices use this technology 	<ul style="list-style-type: none"> - High energy usage - Network saturation - No mesh
Bluetooth	
<ul style="list-style-type: none"> - Available in all smartphones - No need of controller - Many brands - Low cost 	<ul style="list-style-type: none"> - Frequency saturation - Low compatibility between brands - No mesh - Low range
ZigBee	
<ul style="list-style-type: none"> - High compatibility with different brands - Low cost - Many devices for many purposes - Status return 	<ul style="list-style-type: none"> - Controller needed - Frequency saturation - Functionality errors when pairing devices from different brands.
Z-wave	
<ul style="list-style-type: none"> - Mesh - Reliability - High personalization - Status return - No frequency saturation 	<ul style="list-style-type: none"> - Too expensive - Controller needed - No compatibility in other continents
EnOcean	
<ul style="list-style-type: none"> - Devices and sensor with no battery - Status return - No need of controller 	<ul style="list-style-type: none"> - Low compatibility - Low devices - No mesh - Too expensive