# Simple, scalable, standardized

The future is stand-alone lighting that works with the intuitive Philips field app

Simplifying the connectivity challenge

Taking the first steps into connected lighting demands all your skills. From knowing which lighting components will work best together, to setting up and configuring a new lighting network in precisely the right way. So your solution delivers all the connectivity features that you have promised your customers.

It's been a challenge that has required a great deal of time and effort. Until now. Because we've made it incredibly easy to create and control a flexible and scalable wireless lighting network with guaranteed interoperability. And you can do it using only a Bluetooth connection and an intuitive new app.

When connected lighting is this simple, scalable and standardized, it's time to step up to the next level.
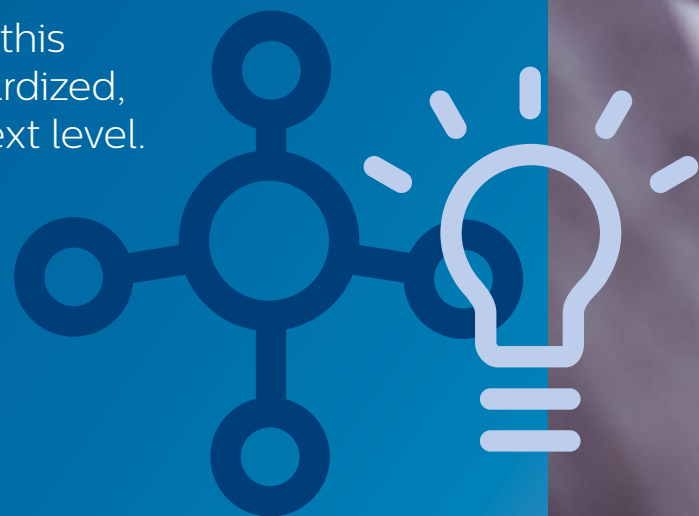
Achieve seamless connectivity

The Philips field app MC is an innovative way of enabling lighting components to work seamlessly together to deliver all the amazing benefits of lighting automation. It guarantees the reliable interoperability of luminaires, drivers, sensors, switches, and even gateways. That's because the entire solution is built around Bluetooth Low Energy (BLE) and Zigbee protocols. So it also offers the flexibility to upgrade, enhance and expand your connected lighting at any time in the future.

Quick and simple set up
The lighting network set up and configuration is designed to be quick and simple. Lights can be commissioned into the network with our innovative point and trigger approach (using a torch), or via a Bluetooth list-based function. This saves time and money by enabling installers to configure a wireless connected network in the field – even when no internet connection is available.

A three-tier model
It's a completely scalable concept with wireless components that are easy to design into the lighting network to add more features and functionality whenever they are required. So you can create a simple stand-alone solution, a sophisticated gateway solution or anything else in between. And you can do it without locking into one single vendor or facing compatibility problems with new products or component releases.

Open standards, more choice
We're committed to pioneering new advances in the connected lighting industry. That's why our solutions are based on open source standards like BLE and Zigbee. We also offer software development kits and components that are compatible with a wide range of third party products. So you can break down the barriers to connected lighting, and take confident steps towards a brighter, connected future.

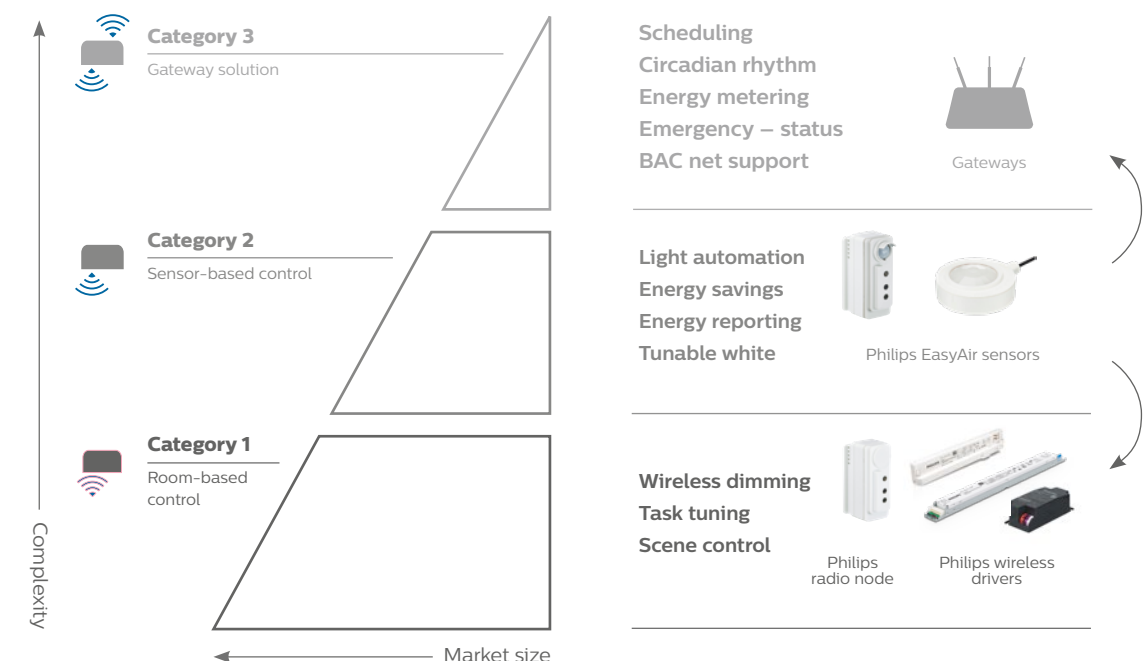# Philips field app MC use cases at a glance

Figure 1: Three levels of lighting connectivity.

Let's take a look at our three-tier model
in more detail.

Category 1
Get started with a simple, stand-alone solution

This cost-effective option uses the Philips field app MC to set up a simple network with wireless drivers and manual switches to control lighting functions.

· Enjoy wireless dimming or scene setting.
· Personalize light levels to suit different tasks and needs.
· Enable energy savings with occupancy detection and daylight harvesting by adding external room-based sensors like the Philips EasyAir Occupancy Daylight ZGP sensors.

In this connected lighting network there's no need for a gateway or hard wiring. The lighting controls and dimming functions are done by wireless switches and the network is fully functional at all times – even without the Philips field app MC.

Ideal for:
An EasyAir SNS410 MC improves the strength of the radio performance. The design-in can also be extended to industry applications.

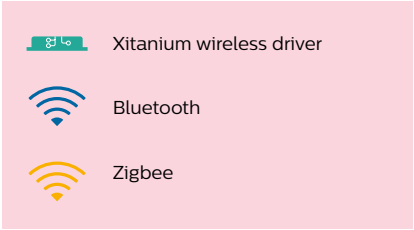Xitanium wireless driver

Bluetooth

Zigbee

Figure 2: **Want a stand-alone connected lighting network with wireless dimming?**
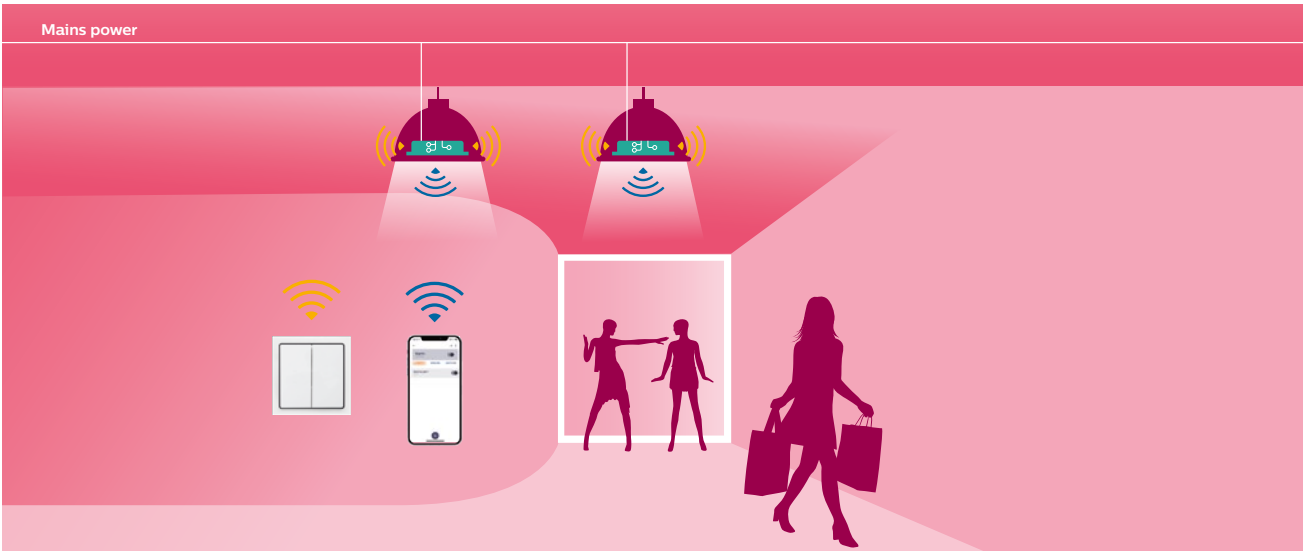Easy. Just download the app and configure the drivers into a network.

Figure 3: **Need to expand the network?**
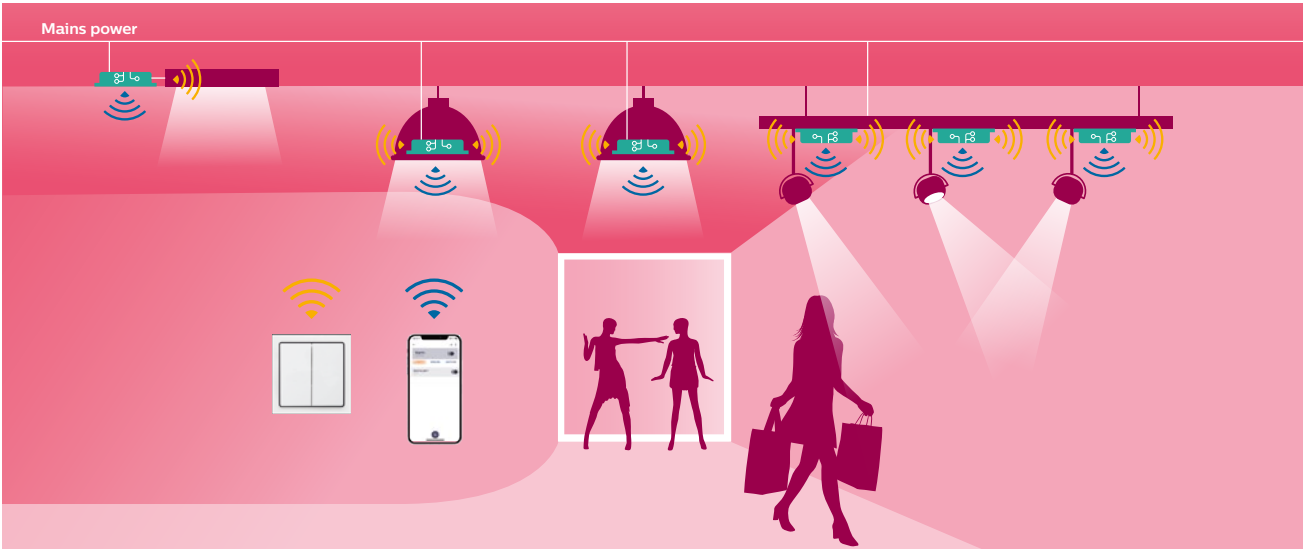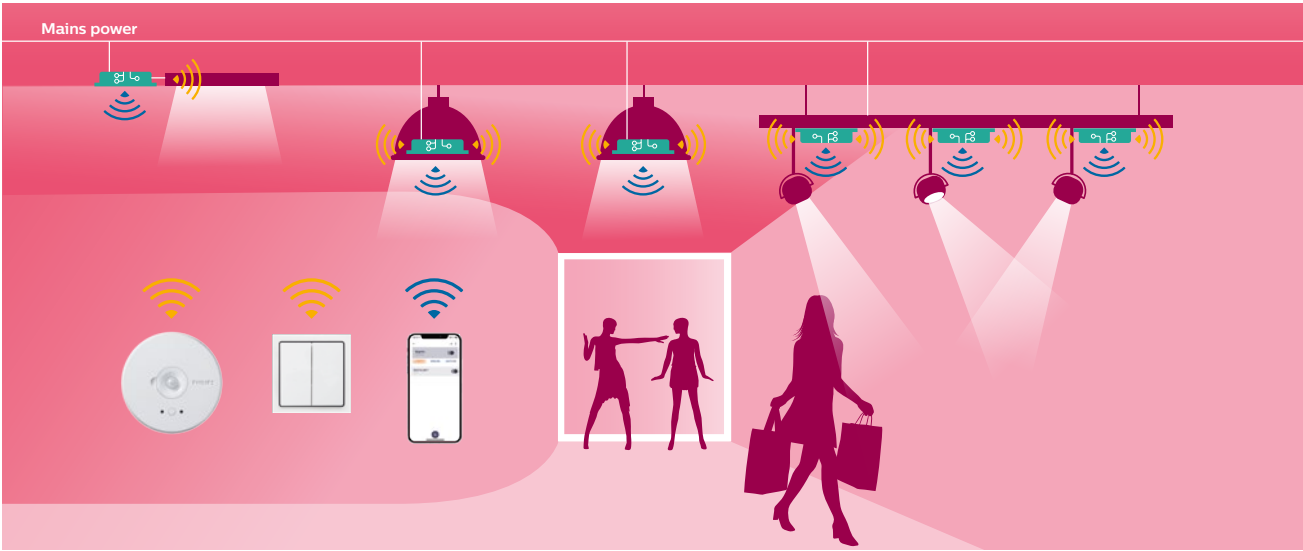No problem. Use the app to add more luminaires to the existing network at any time.

Figure 4: **Want more control over areas?**
Simply add more functions to your lighting network by adding room-based sensors.

Category 2
Get more control with a stand-alone lighting network with granular dimming

This solution offers an extra degree of control over your lighting system for valuable energy savings and a more comfortable lighting experience.

· Use motion detection to switch lights on and off, up or down with a Philips EasyAir SNS210 sensor in every luminaire.
· Enjoy touchless dimming control per individual, group or subgroups for optimum comfort.
· Maximize energy savings with motion detection and daylight harvesting.
· Access energy reports via the phone app.
This wireless lighting network set up enables automated lighting without a gateway. It is a great solution for refurbishment projects offering re-use of existing DALI luminaires to maximize value for money.

Ideal for:
Offices (corridors, conference rooms), schools (classrooms, canteen, toilets) and hospitals (wards, reception).
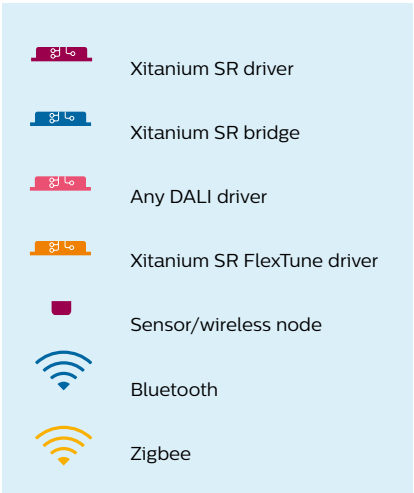
	Xitanium SR driver
	Xitanium SR bridge
	Any DALI driver
	Xitanium SR FlexTune driver
	Sensor/wireless node
	Bluetooth
	Zigbee

Figure 5: **Want an extra degree of control?**
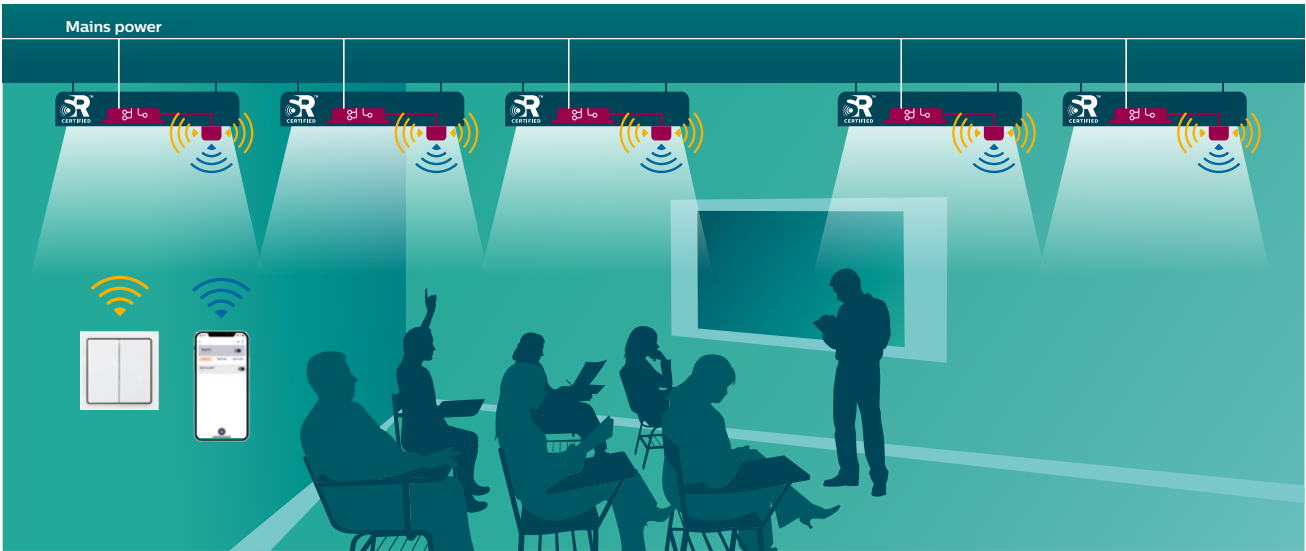*Just add EasyAir SNS210 sensors to every SR-powered luminaire in your network.*

Figure 6: **Using existing wired DALI luminaires?**
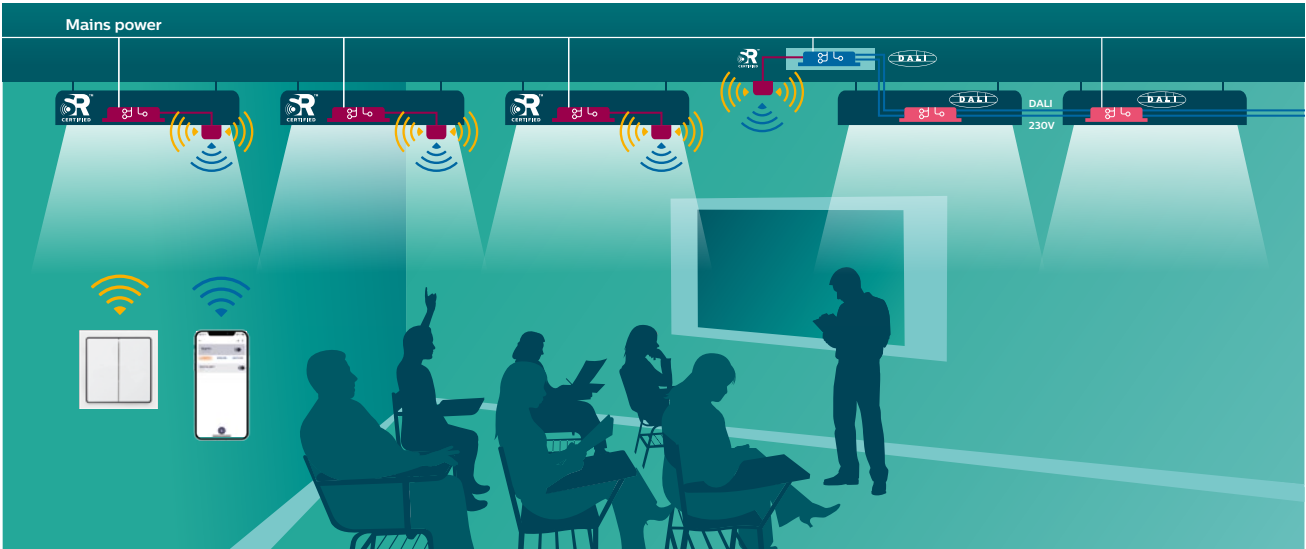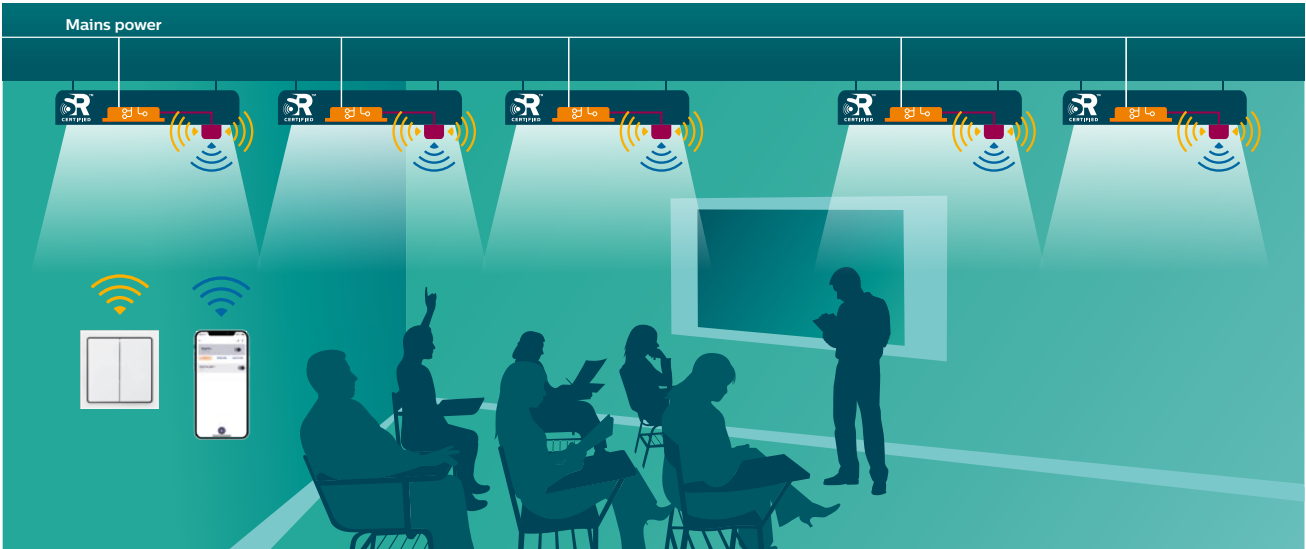*Simple. Add them into the network at any time using an SR bridge.*

Figure 7: **Need more ambience?**
Create a tunable white system using a Xitanium SR FlexTune driver and EasyAir SNS210 sensor.

Category 3
Get full integration with an IoT solution with gateway

This fully-integrated, connected network adds value beyond illumination to deliver significant commercial, operational and financial advantages.

· Builds on category 1 and 2 solutions with a Zigbee gateway.
· Adds advanced features such as scheduling, monitoring and energy reporting.
· Enables complex scenarios for different lighting behaviors.
· Includes direct reporting via the gateway dashboard to reduce costs and downtime.

This Internet of Things (IoT) category solution works with Signify-trusted gateway partners and is enabled by gateway software.

Ideal for:
Ambitious infrastructure plans in offices, schools, retail and hospitality applications.

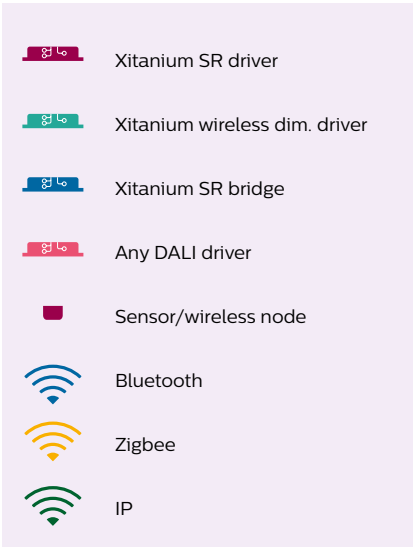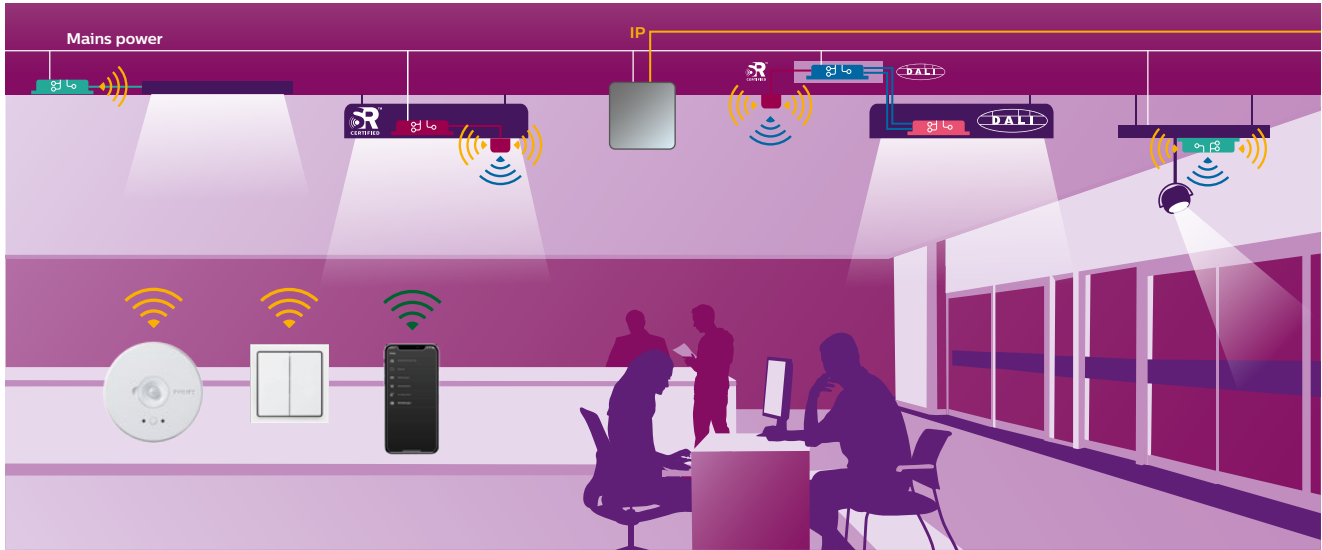|	
	Xitanium SR driver
	Xitanium wireless dim. driver
	Xitanium SR bridge
	Any DALI driver
	Sensor/wireless node
	Bluetooth
	Zigbee
	IP

Figure 8: An integrated IoT solution for indoor lighting architecture.

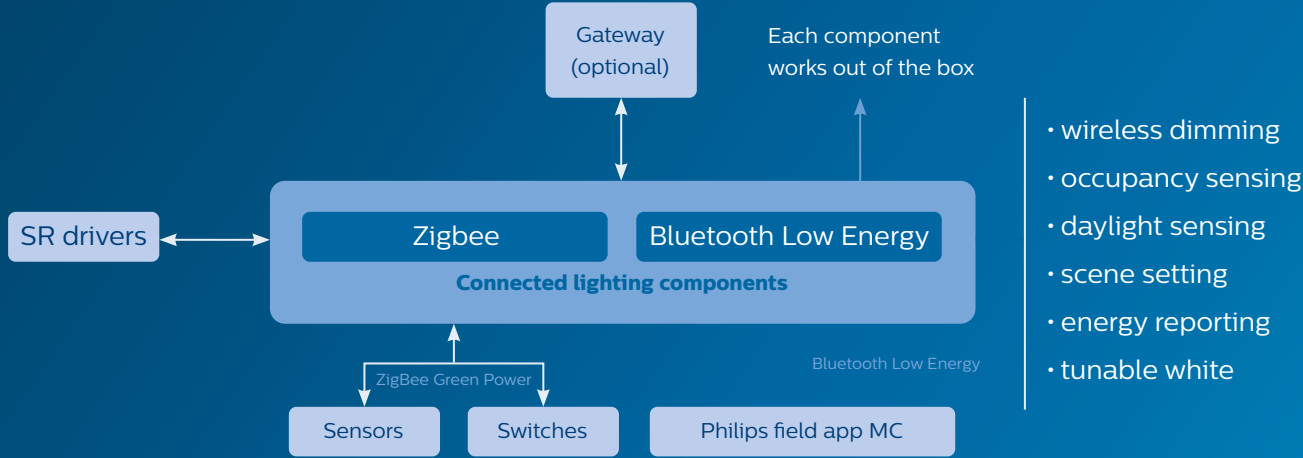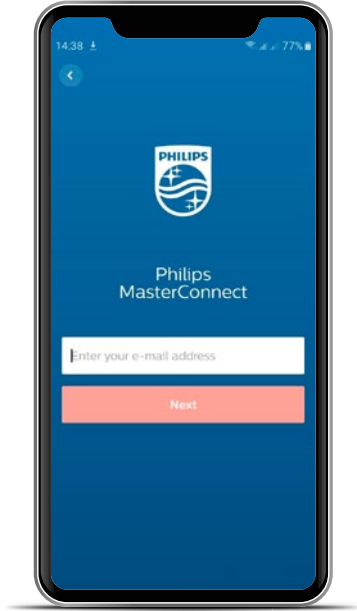# All open standards within one connected lighting network

Figure 9: The Philips field app MC enables connected lighting networks based on open standards.

Download the app today
Take the next steps towards simple, scalable, standardized connected lighting. To learn more about lighting components that work with the Philips field app MC for a wide range of applications, access **www.philips.com/fieldappmc**. Or download the Philips field app MC and get connected now.

www.philips.com/masterconnect