

February 2023

Amdocs Smart Lighting



Smart Lighting

Cities that work

We believe that cities have reached a key moment in history. Advances in technology now mean that cities can perform better, delivering more for their inhabitants in smart, energy efficient ways.

Amdocs is passionate about enabling local government to take advantage of the potential of technology within our cities, and delivering on the potential of the Smart City.

The Challenge:

Running a modern city is a huge undertaking that requires balancing sometimes competing needs.

Lighting the Way

City inhabitants will rightly demand that spaces be well lit to ensure they are safe, comfortable and usable. These spaces also need to balance that with the need to reach ever-increasing environmental requirements, the need to minimize power consumption, and avoiding the creation of glare or blue light.

Providing Internet Access

Modern city inhabitants and visitors need internet access, as do those who work within them. Increased access to the internet can improve the safety and wellbeing of inhabitants. Further, it can support tourism outcomes which in turn grow city revenue.

Aiding City Management

Smart lighting can move beyond the management of the lighting itself, with the addition of IoT sensors to provide real-time data on the city. City managers can see live environmental data (noise, temperature, humidity, air quality), can monitor density of people and movement (for example traffic), and can identify distress signals.

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The Solution:

The Amdocs Smart Lighting solution delivered in partnership with Juganu, is a unified platform to manage your Lighting, deliver internet access and aid city management through with AI applications. It is all configured to run within a contained secure private network.

Existing fixtures are replaced with Juganu units, configured to run within an Amdocs private network environment on Azure cloud. Minimizing the cost of implementation while maximizing the benefit to city inhabitants and management.

The Benefits:

By delivering Smart Lighting through Amdocs and Juganu, city managers are enabled to:

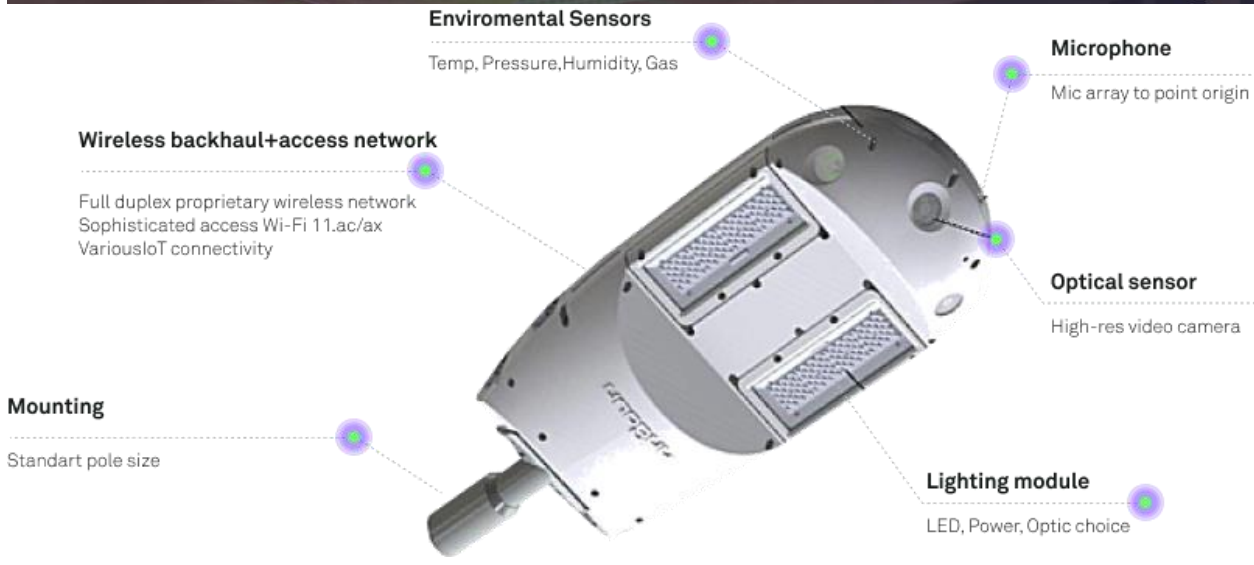
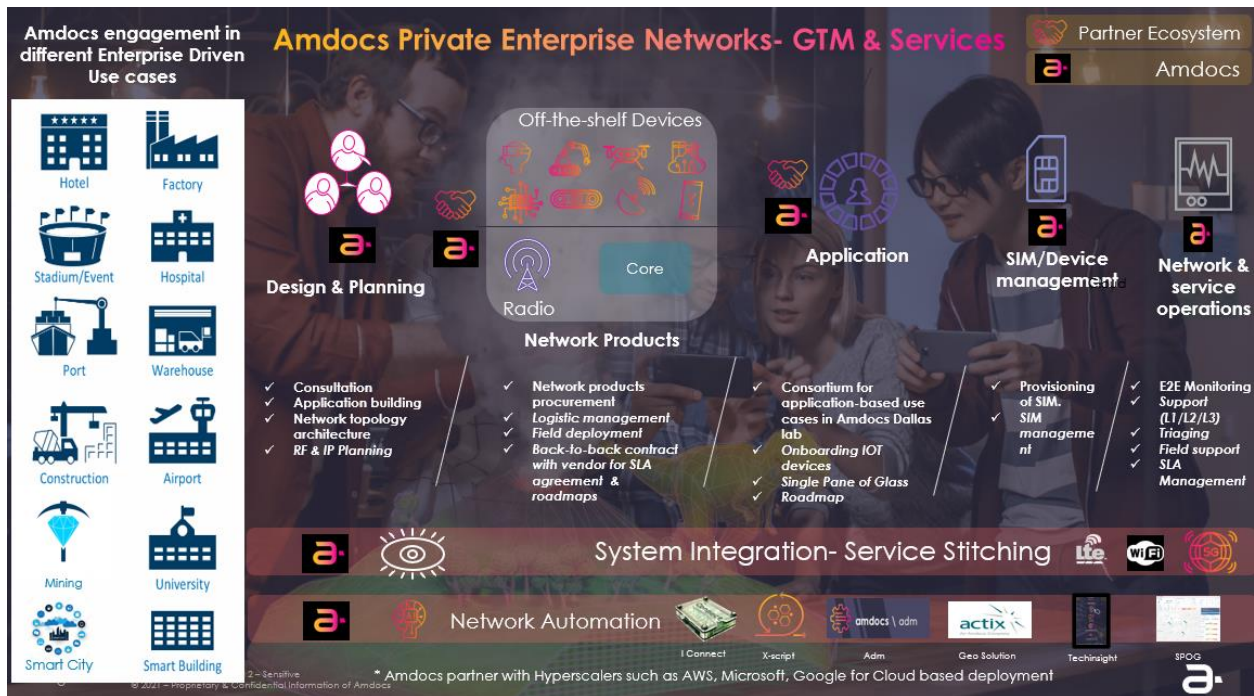
- Maximize lighting performance and live time with high quality LED lighting, reducing energy costs by up to 80%
- Publicly available WiFi network through a private 5G network, which can be supported by a variety of digital services
- Minimize lighting glare, and light pollution
- Restricted area monitoring and alerts
- People, density and heatmaps by area
- Traffic management
- CV2X support
- Audio AI - abnormal noise detection
- Environmental data
- IoT framework for additional 3rd party apps

Amdocs 5G Lab Youtube Video:

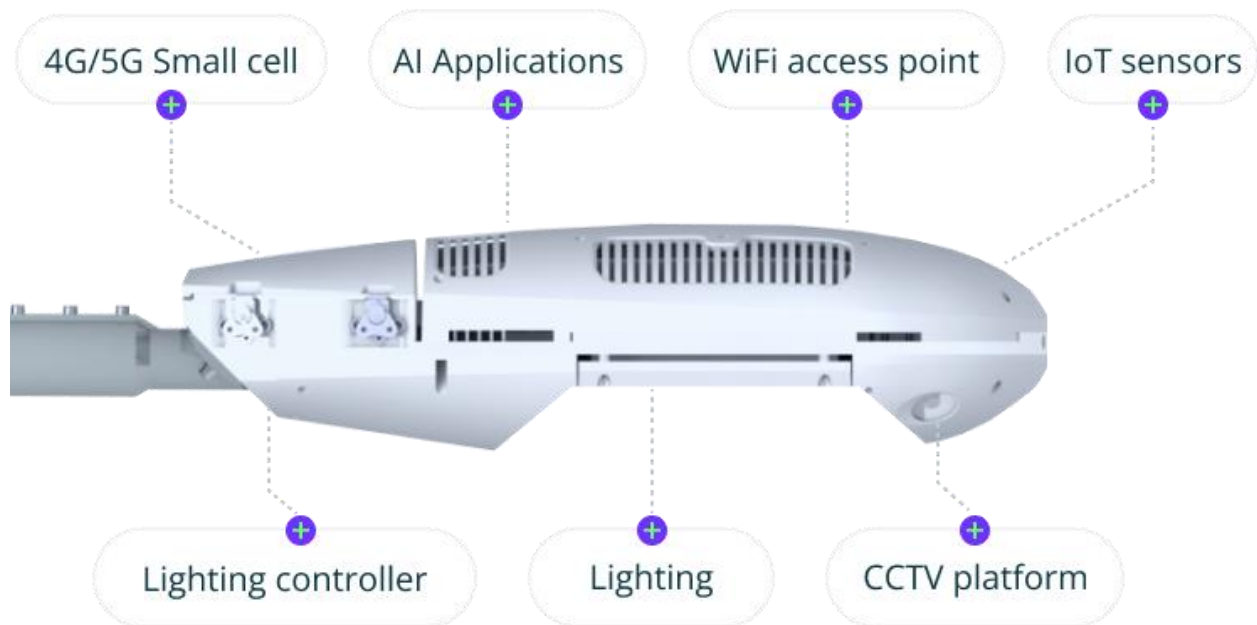
Amdocs/5G OI Lab spotlight Big 5G Event

<https://www.youtube.com/watch?v=ho5rbfTleml>

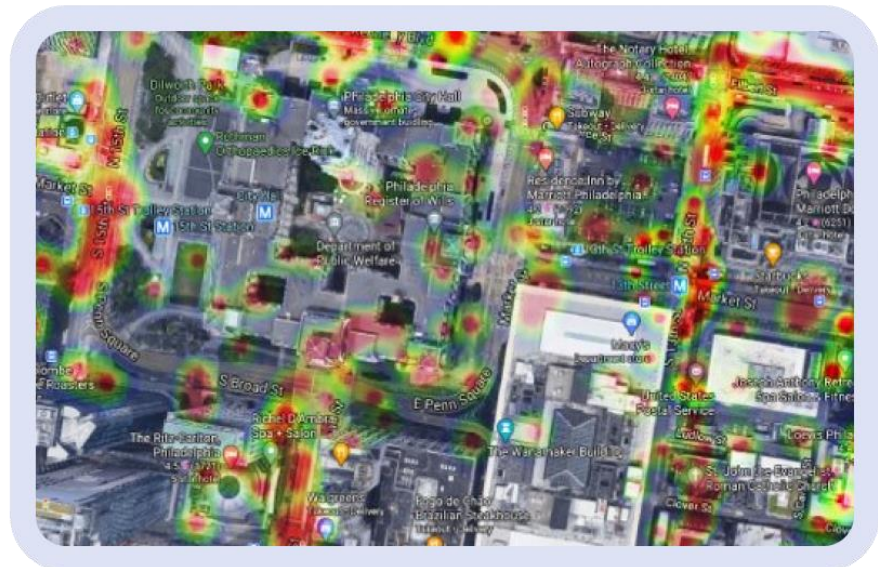
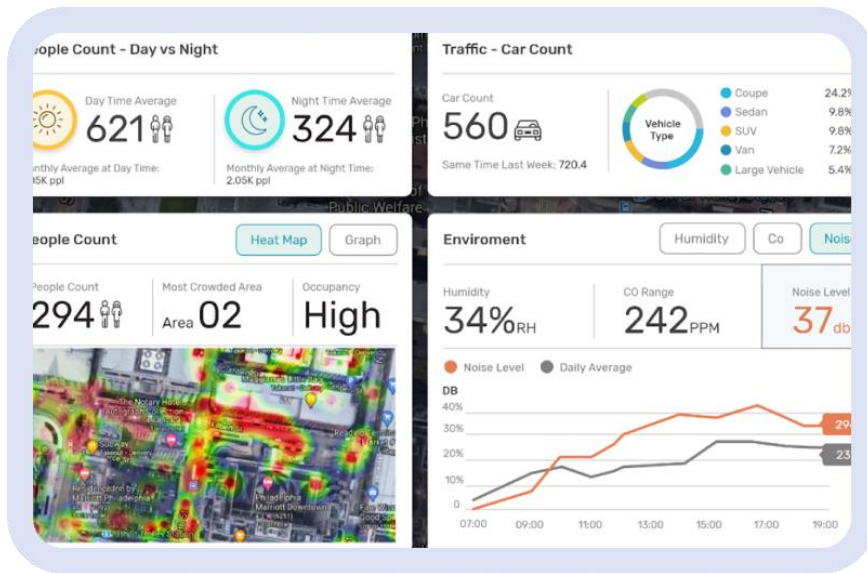
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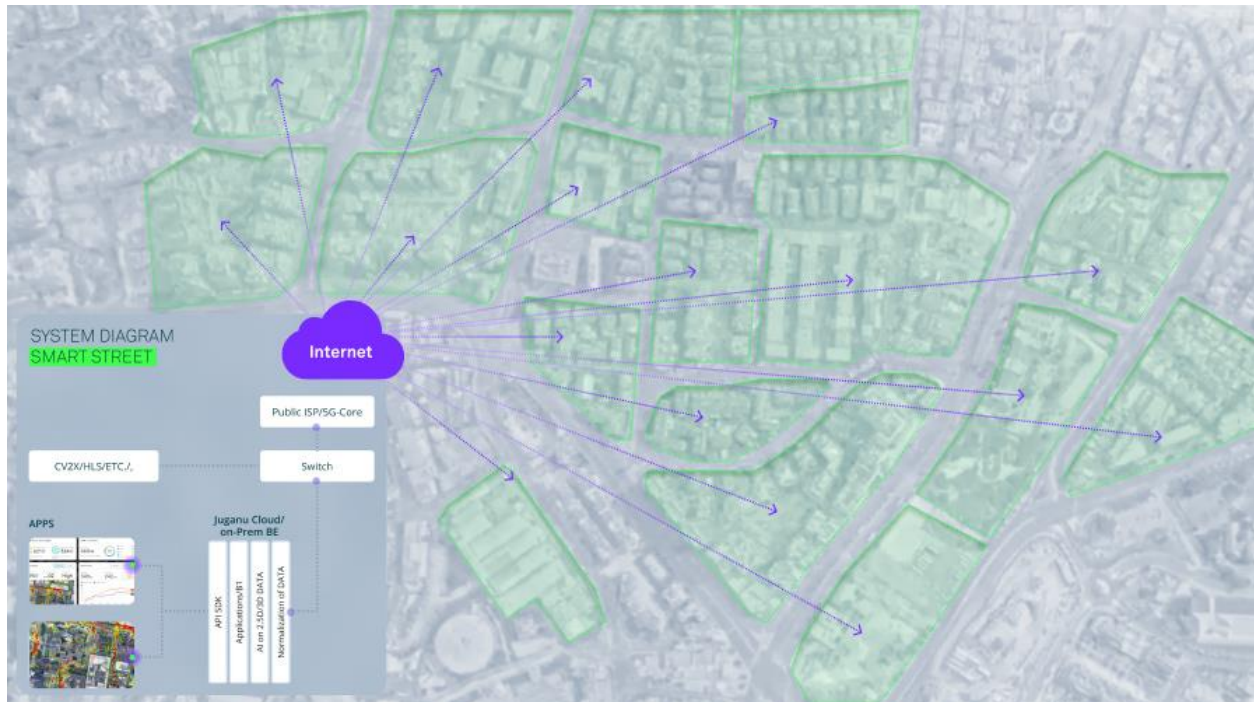
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Why Amdocs

Amdocs leverages a deep understanding of existing capabilities and strategies to create tailored solutions that combine our own assets with those of the service providers' enterprise customers. Our holistic solution design approach considers enterprise requirements, use case, future vision, as well as the degree to which the enterprise wishes to manage their own network operations.

Leveraging our 5G labs for co-development with customer as sandbox for any use cases, vendor experience, flexible solution blueprints and private network deployment experience, we test vertical solutions on connected network architectures and deploy them at scale with a faster time to market while being a single point of accountability for committed SLAs, minimizing risks associated with private network implementations. Meanwhile, our global delivery and support organization – spanning RAN, core, cloud, IT, system integration, transport, security and software domains – enables us to manage all the complexities of an end-to-end private network solution.

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With our combination of deployment and automation, private network management console and AI-enabled operations services, we lead the industry in enhancing the customer experience, while improving overall operational efficiencies.

Learn more

To discover how Amdocs' private network solutions can help your enterprise customers, reach out to networkmarketing@amdocs.com

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