



STATIC SYSTEMS GROUP

## SSG scales digital infrastructure for Oriel, the new world-class centre for Moorfields Eye Hospital

March 2026

### Project overview

Oriel is a joint initiative between Moorfields Eye Hospital NHS Foundation Trust, the UCL Institute of Ophthalmology and Moorfields Eye Charity. This landmark £500 million development, part of the New Hospital Programme (NHP), will see the construction of a 39,500m<sup>2</sup>, world-leading integrated centre for eye care, research and education at the St Pancras Hospital site in Camden.

SSG, a Halma company, was appointed as the specialist technology partner by the main contractor, Bouygues UK. SSG is responsible for the full design, supply, installation and commissioning of a site-wide digital IP Nurse Call system and smart devices. This includes SSG's Mobile Nurse Base communication application as well as medical Bedhead Trunking infrastructure. Representing one of SSG's largest NHP projects to date, the 22-month programme commenced wiring and installation in December 2024. With works scheduled for completion in Autumn 2026, the facility is on track to open its doors to the public in early 2027.

### Technical scope and architecture

To support the Trust's vision for a digitally-enabled hospital, SSG is deploying a unified, full-IP communication stack.

The architecture is designed with an open, vendor-neutral protocol, ensuring the Trust is not locked into a single ecosystem and can easily accommodate future third-party integrations as clinical needs evolve.

The comprehensive scope includes:

- **Ultima™ IP Nurse Call:** A resilient network comprising 804 over-door lights, 459 emergency buttons and 190 tone sounder units across the campus
- **SSG's Mobile Nurse Base application,** providing full visibility of the Nurse Call system via healthcare-grade Android smart devices and the available functionality of silent wards and two-way speech with the patient or staff
- **High-acuity signalling:** 84 speech-enabled patient hand units and 72 WC reset/emergency units, ensuring clear, prioritised communication
- **Integrated Bedhead Services:** 56 Ventura trunking units and 28 specialised carelights and up/down lighting systems
- **Anaesthetic specialisation:** 14 anaesthetic room trunking units, delivered pre-assembled, pre-wired and pre-gassed to ensure clinical compliance and site efficiency
- **Staff protection:** Discrete under-desk panic pushes across administrative and clinical areas, integrated into the IP network for immediate alarm escalation



### WHERE CARE MEETS TECH

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## Building Information Modelling (BIM) coordination and modular efficiency

The scale of Oriel required meticulous design coordination through BIM.

Working closely with Bouygues UK, SSG's delivery team used BIM to de-risk the installation phase, ensuring seamless integration between the Bedhead Services and the building's structural fabric.

Operational efficiency was designed into the infrastructure through the deployment of pre-wired and pre-gassed anaesthetic units. By supplying these units ready for immediate connection, SSG significantly reduced the on-site labour required from multiple trades. This 'plug-and-play' approach has allowed the contractor to maintain an accelerated build programme while ensuring that all medical gas and electrical components met exacting HTM standards prior to arrival on-site.

## Empowering clinicians through mobile integration

**A core objective for the Trust was to move beyond traditional, reactive Nurse Call protocols.** SSG is implementing a smart, mobile-based communication system that replaces conventional pagers with healthcare-grade smartphones.

In a traditional environment, a patient press triggers a corridor light and a buzzer, requiring a nurse to walk to the bedside simply to establish the patient's request. At Oriel, the integration between the Ultima™ IP system and mobile handsets will allow patients to communicate directly with their assigned clinician. Whether a patient requires pain relief or a glass of water, the nurse is informed immediately and can respond with the necessary items already in hand.

**Once the facility is live, this direct-to-clinician routing will significantly reduce alarm fatigue and save thousands of redundant steps across the 39,500m<sup>2</sup> facility every day.**

## Outcomes and long-term resilience

The successful delivery of the infrastructure at Oriel reinforces SSG's position as a preferred partner for high-complexity healthcare developments.

By combining HTM-compliant physical trunking with a sophisticated, mobile-first IP network, SSG has provided the Trust with a system that is both scalable and resilient.

The project is currently progressing through the primary installation phase. **Once operational, the system will provide the Trust with a robust, data-rich environment capable of real-time diagnostics, ensuring that Moorfields remains at the global forefront of eye care for decades to come.**



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