



STATIC SYSTEMS GROUP

SSG completes integrated safety and communication fit-out for Stepping Hill's new Emergency and Urgent Care Campus

January 2026

Project overview

Stepping Hill Hospital, a major acute facility within the Stockport NHS Foundation Trust, has opened a new state-of-the-art Emergency and Urgent Care Campus (EUCC). SSG, a Halma company, was appointed as the specialist technology partner for Tilbury Douglas to deliver the full design, manufacture and installation of the campus' communication and safety infrastructure. The scope covered high-acuity environments including Mental Health, Resus, Majors, Paediatrics and the Clinical Decision Unit (CDU).

This multi-million-pound development is a key part of the Trust's strategy to modernise urgent care delivery. The project replaced disparate legacy hardware with a unified, IP-based framework to standardise patient safety protocols and achieve full compliance with HTM 08-03 standards.

By synchronising these systems into a single platform, SSG has provided a digital infrastructure capable of supporting the hospital's long-term operational and clinical requirements.

Technical scope and architecture

SSG delivered an integrated system architecture built on a full-IP, open-protocol platform, using Power-over-Ethernet (PoE) and a distributed intelligence network to eliminate any single point of failure across the site. The solution integrated Ultima™ IP Nurse Call, the Guardian Staff Attack System and Ventura Bedhead Services Trunking to provide site-wide coverage.

Key technical deliverables included:

- 9 Ultima™ IP Nurse Call bedhead nodes and 117 over-door units were deployed site-wide to provide a resilient, distributed intelligence network across the campus
- Dedicated cardiac call facilities were integrated into high-dependency zones, including Resus, CDU and Paediatric ED, for immediate emergency escalation
- 59 VoIP SIP touchscreen consoles allow direct, high-fidelity voice communication between staff and patients to improve triage speed and reduce alarm fatigue
- 22 'mushroom' panic push units and a 40-metre panic alarm strip were installed across five specialised Mental Health rooms to provide immediate IP-network alarm escalation



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Engineering and logistical coordination

Tilbury Douglas required the delivery of all three systems within a single, continuous construction phase. In response, SSG implemented a design-to-commissioning programme that reduced on-site complexity and the number of required site visits.

SSG supplied over 60 Ventura trunking units to the site. To reduce installation time and maintain clinical compliance, these units were delivered pre-assembled, pre-wired and pre-piped for medical gases (O² and VAC).

This approach provided essential and non-essential power, RJ45 data and USB charging across nine departments, including the Hyper Acute Stroke Unit (HASU) and the Same Day Emergency Care centre.

System cabling followed TIA/EIA 568-B standards, establishing a stable network for real-time diagnostics. This allows the hospital's Estates Team to monitor system health and identify maintenance needs before they impact ward operations.

Overcoming challenges

Executing a multi-system installation within a high-pressure new-build environment required coordination between several construction trades and clinical leads.

- **SIP network configuration**

Simultaneously rolling out Nurse Call and staff protection required precise configuration. This ensured that SIP-based escalation routed security teams to the exact location of mobile IR fobs without interfering with primary clinical alerts

- **Mental health compliance**

In dedicated Mental Health areas, SSG adapted the installation to include anti-ligature equipment. This involved specific placement of devices to ensure full clinical functionality while maintaining a safe environment for vulnerable patients

- **Standardised verification**

Ensuring full adherence to NHS standards within an accelerated timeline required rigorous documentation. Every element, from the medical gas piping to the IP network modules, was verified to meet exacting safety standards prior to the final handover

Outcomes and future resilience

The system delivery ensured Stepping Hill's EUCC was equipped for high-quality care from day one.

The transition to a unified IP platform provided immediate operational value, particularly regarding frontline security. By integrating fixed and mobile panic alarms into the clinical workflow, SSG provided staff in high-acuity wards with a robust safety framework.

The software-driven architecture allowed the Trust to reconfigure the Majors ward for SDEC and Paediatrics use through software adjustments, avoiding the physical rewiring required by traditional systems.

This provides the Trust with a scalable platform that supports future expansion and integration with evolving digital technologies across the wider hospital estate.



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