Case Study: Project S

65m Superyacht Rebuild

- AVIT & Lighting Assessments
- Upgrade Proposals
- Technical Specifications

TheYachtAVIT

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Scope → Deliverables → Outcomes

Scope

Design and modernise the yacht's Audio-Visual, IT, communications, and lighting systems to:

- Improve system reliability and resilience
- Simplify guest and crew control
- Build scalable foundation for future upgrades

Deliverables

- Full AV/IT & Lighting audit
- Upgrade proposal & phased roadmap
- Technical specification pack
- Supporting documentation

Outcomes

- Independent, professional system design
- Avoid unnecessary upgrades and rework
- Transparent planning for consistency throughout project

*"His recommendations successfully addressed the client's core requirements for **robust, user-friendly, and future-proof systems**."*— Stephen Cartwright, Director, Yacht.Pro Ltd

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AV/IT Assessment – Key Findings

System Issues	Operational Impact
Fixed Integrator AV System	Reliance on single vendor
Ageing and mixed hardware	Complex troubleshooting
Wireless instability	Dead zones in crucial guest zones
No redundancy	Server of firewall failure = outage
Documentation gaps	Delayed fixes and stronger reliance on external intervention
Complex user interfaces	Guest reluctant to use AV systems

Overall Impacts

- Increased downtime risk
- Higher support costs
- Guest and crew frustration
- Difficult future planning

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AV/IT Upgrade Proposal – Summary

Key Recommendations	Expected Outcome
Deploy structured network backbone with VLANs	Segmented, resilient infrastructure with simplified troubleshooting
Install reliable Wi-Fi coverage across decks	Seamless guest connectivity and roaming
Implement redundant firewalls for resilience	Continuous internet access even during failures
Introduce central servers & storage with failover	Reduced downtime, faster recovery, secure data
Transition AV to modern, centralised control	Consistent, intuitive but simple user experience across all areas
Upgrade lighting to scalable Lutron QSX	Reliable, flexible control with future expansion built in

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AVIT Specification – Approach

Specification Detail Provided:

- Network, firewall & VLAN design
- Wi-Fi coverage planning
- Servers & storage redundancy
- AV rack & control concepts
- CCTV & telephony integration
- Lighting migration path
- Power & UPS design

Deliverables Produced:

- ☑ Technical specification pack
- ☑ Device & cable schedules
- ☑ Rack elevations & port maps
- ☑ VLAN & addressing schema
- ☑ GA overlays
- ☑ Commissioning framework

Values Provided:

- Clarity – clear documentation for shipyard & integrators
- Downtime reduced – redundancy built into design
- Cost control – avoids scope creep and rework
- Future proofing – scalable, modular backbone
- Guest experience – intuitive AV/lighting control
- Crew efficiency – easier maintenance and training

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Lighting Assessment & Upgrade Path

Assessment (Current KNX System)

- ⚠ Mixed hardware → complexity
- ⚠ Sealux integration → single point of failure
- ⚠ Inconsistent dimming & feedback
- ⚠ Limited flexibility for keypads/scenes

Upgrade Proposal (Proposed Lutron QSX)

- ☑ Centralised QSX backbone
- ☑ Flexible keypads with engraving
- ☑ Consistent dimming & blind control
- ☑ Scalable IP-based architecture

Values Provided:

Guest Experience
Simple, consistent control

System Reliability
Fewer faults, faster diagnosis

Crew efficiency
Standardised, documented system

Future-proofing
Long-lasting, upgradable backbone

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AV/IT & Lighting Project Management

Role within Owner's Team:

- Independent consultant embedded within owner's team
- Translated client requirements into practical specifications
- Coordinated with owner's rep, shipyard, architect & integrators

Key Contributions:

- Delivered phased framework: Assessment → Proposal → Spec → Planning
- Flagged integration risks early (Sealux, VLAN, KNX)
- Ensured future support built into design
- Streamlined review cycles with stakeholders

Value to Client:

- Balanced technical & operational priorities
- Reduced risk of costly rework
- Clear roadmap for execution & long-term support

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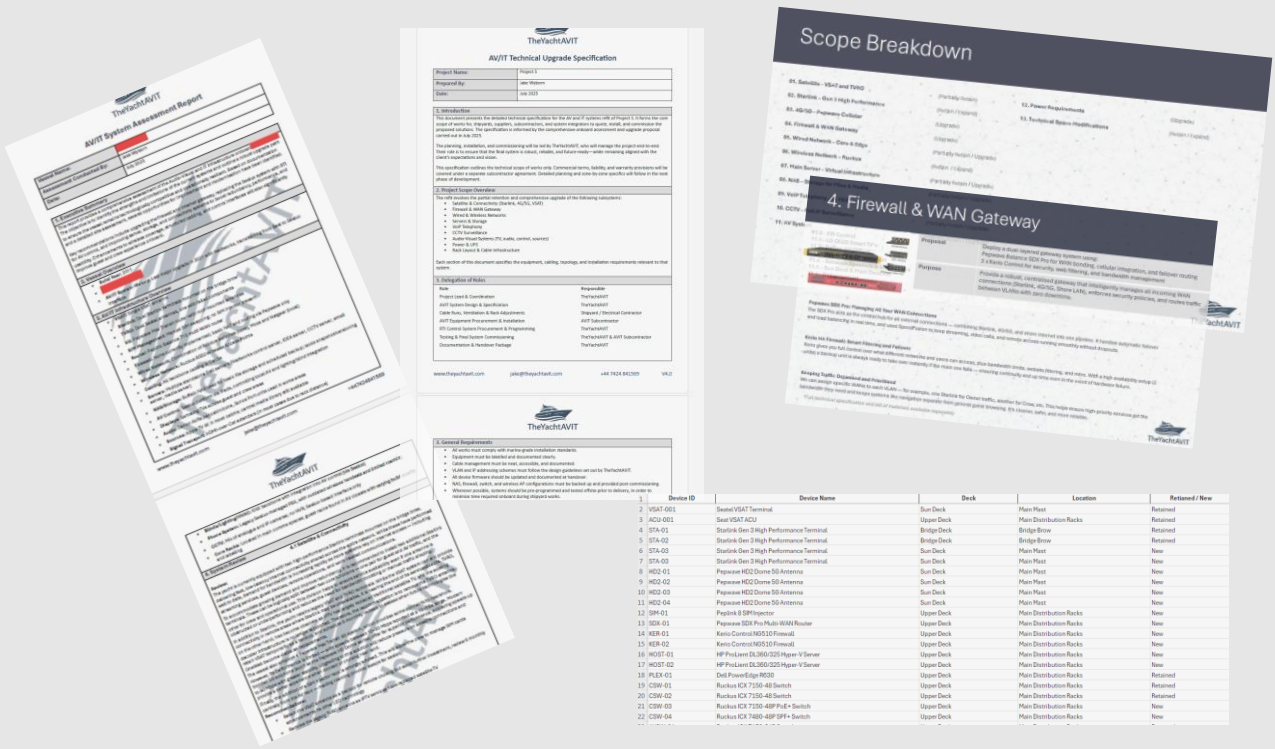
Final Outcomes

Delivered through the assessment and planning phase:

- AV/IT & Lighting Assessment, Upgrade Proposal and Technical Specification
- Documentation pack (Cable and Device IDs, preliminary rack drawings, GA overlays)
- Phased roadmap for refit works
- Testing & commissioning framework



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Closing Statement

By adopting TheYachtAVIT assessment and upgrade paths, the client benefited from:

- **Reduced Risk** – issues identified & mitigated early
- **Clarity** – single source of truth for all parties
- **Cost Control** – prevented unnecessary upgrades
- **Future Support** – maintainable & resilient systems
- **Owner Confidence** – transparent, independent advice

> *"Jake's professional approach, technical expertise, and attention to detail made him an **invaluable partner in this complex refit project**."*
> — Stephen Cartwright, Director, Yacht.Pro Ltd.

Future-ready AV/IT and lighting systems: scalable, resilient, and centred on guest experience

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Testimonial & Contact

"Jake was commissioned to conduct an independent assessment of existing systems and develop upgrade recommendations for the vessel's AVIT, lighting, and communication infrastructure. Throughout the concept and basic design phases, he collaborated seamlessly with our project team, technical manager, captains, and chief engineer, demonstrating **excellent communication and integration skills**.

Jake delivered a **comprehensive upgrade proposal** accompanied by detailed technical specifications and thorough supporting documentation—all presented at a level of detail that enabled shipyards to provide accurate and competitive quotations. His professional approach, technical expertise, and attention to detail made him an invaluable partner in this complex refit project. I **would not hesitate to recommend** Jake Wyborn and TheYachtAVIT for similar projects."

— **Stephen Cartwright, Director, Yacht.Pro Ltd.**
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