



# CASE STUDY

Contributed by ZeeVee



## AV and IT Converge in SDVoE Network Aboard Super Yacht

When it came time to retrofit one of the world's top private yachts, only the best was good enough. A top priority was the creation of an AV system with a wow factor.

### Challenge

The owner of the 115m super yacht wanted the highest possible image quality and instant switching from source to source. Content had to be capable of following him from screen to screen around the vessel as he moved. He wanted an entertainment system able to play any of hundreds of stored movies or any Sky channel instantly at will. He also conducts his business while aboard, so the solution needed first-rate office systems kept completely secure from the entertainment network. He turned to Swedish technical consultancy Plejd, specialist installers of marine AV, who put ZeeVee's ZyPer4K at the centre of their solution.

### Solution

ZeeVee's SDVoE-based ZyPer4K HDMI2.0 encoders and decoders, combined with Plejd's unique automation technology, were employed to deliver top image quality and latency-free switching as well as truly unique control possibilities. For example, the system can track users' indoor physical locations and content can follow them from room to room.

The office desk has eight devices feeding two desktop monitors and a 105" Samsung display. Remote KVM switching is available. The office network is connected to the entertainment network which gives the office access to movies and other content but maintains security in the other direction.

The entertainment network is centred on a 105" display in the main lounge area and a large screen in the bar. These screens can seamlessly access 25 Sky satellite set top boxes and eight 10TB Kaleidescape players hosting hundreds of 4K movies, as well as numerous other sources including PCs, gaming consoles, other set top boxes and cameras. Each of these sources has an individual Zyper encoder, allowing each channel or server to be switched instantly through the Plejd app. This app detects the location of the viewer through a Bluetooth beacon, and switches content from screen to screen as he or she moves around the vessel. It also allows users to set up individual preference settings for different situations such as watching a film, dining, having a party etc.

**"The Plejd system has proved itself to be head and shoulders above any other entertainment and control system available on the market. It's stable and reliable requiring a fraction of the maintenance of other systems."**

**Geoff Bromilow**  
Super Yacht

The 39 ZeeVee ZyPer4K AV-over-IP encoders and decoders connect sources and screens to both the entertainment and the office network providing pixel-for-pixel accurate reproduction of uncompressed content up to 4K 4:4:4 and 10-bit resolution. The decoders automatically scale and adjust HD, Ultra HD and 4K sources to the target display device, so that TV shows, films, computer programs and more can be shown to best advantage on different screens, of different dimensions, simultaneously across the super yacht, with zero latency and exceptional image definition. The network is based on 100Gbps Cisco Nexus switches. As the network is extended with further screens in the cabins and other areas, there could be up to 80 Zyper boxes aboard, making it one of the world's largest floating AV-over-IP networks.

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Erik Calissendorff, Plejd founder, commented on the project, "HDMI 2.0 is still very much in the early adoption stages and only supported by certain software. ZeeVee were a natural choice and one of the few companies able to support this technology as well as offer us first class assistance with the installation. Using ZeeVee ZyPer4K I think we have created a good match of AV and IT to provide the best possible solution for our customer."

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Plejd



## Benefits of SDVoE Technology

SDVoE reaches beyond existing standards to provide benefits no other technology can claim:

- A complete ecosystem – SDVoE Alliance members are manufacturers with expertise in signal distribution, display manufacture, IT infrastructure, chip design and AV software. The integrator has dozens of partners to align with and products to choose from.
- A flexible yet simple software platform – the SDVoE API allows rapid development of highly specialized software, custom-tailored to the needs of a vast array of end users.
- A full OSI stack solution – only SDVoE offers the simplicity of a complete top to bottom solution, fully encompassing infrastructure, transport, processing, and a simple control layer.



For more information about ZeeVee's ZyPer4K SDVoE solutions, visit [www.zeevee.com](http://www.zeevee.com)



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