

Universal Ship Interface Template Set (U-SITS)

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OVERVIEW

JFD is pleased to propose a concept design for a Universal Ship Interface Template Set (U-SITS) which would allow all three AUKUS Nations Submarine Rescue Systems to be installed upon it for Vessel Of Opportunity (VOO) Embarkation.

- **Australia** - James Fisher Submarine Rescue System (JFSRS)
- **UK** - NATO Submarine Rescue System (NSRS)
- **US** - Submarine Rescue Diving and Recompression System (SRDRS)

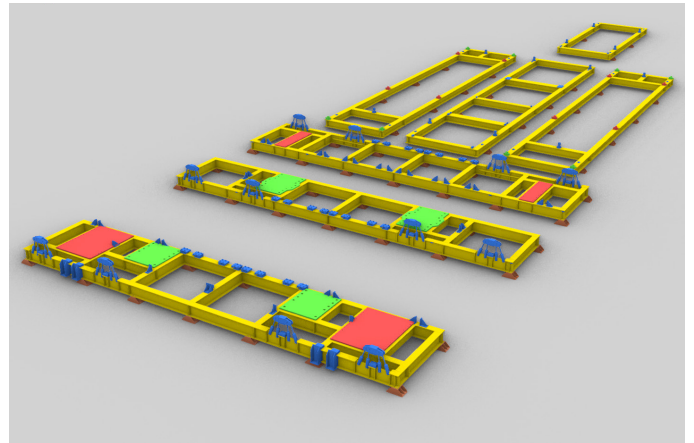
ISSUE

Each of the rescue systems face different technical challenges to installation onto a VOO. Unless a preferred vessel has been fully surveyed and pre-engineered (structural modifications and interfaces done in advance), there is likely to be significant work required in the event of a rescue mobilisation. This presents a significant risk to the embarkation timeline and, ultimately, the achievable Time To First Rescue (TTFR).

VOO installation structures make up a significant percentage of the transportable load for a flyaway submarine rescue system. A universal SITS design for multiple rescue systems would allow for convenient forward deployment to strategic global locations, lessening the burden on air transport assets and the TTFR.



Strategic SITS Deployment



Concept Design

SOLUTION AND BENEFITS

As demonstrated by the US SRDRS, this issue can be relieved through the design and manufacture of a SITS. The SITS accelerates the mobilisation process and significantly reduces the risk of vessel pre-engineering requirements.

The AUKUS partnership presents a unique opportunity to bring the three nations together (and other nations reliant on these systems) to realise a new initiative, which bring combined success. The benefits of such an initiative are summarised below:

- System can support AUKUS Nations' existing Submarine Rescue Systems - whichever system is available first could be used.
- Increased access to VOOs - removing many vessel deck strength limitations.
- Reduce risk to pre-engineering and accelerated mobilisation timelines.
- Designed for easy transportation via ISO containers/aircraft pallets.
- Can be deployed in strategic locations (image provided) to increase coverage to AUKUS submarines and allied nations.