

End-to-End Turnkey Solutions

Desk Top Study

With the strength of Global Marine's planning platform, backed by more than a century of complex marine operations experience, Huawei Submarine Networks can deliver professional and competent desk top studies that offer practical and cost effective solutions for all types of subsea projects across all system lengths and marine environments. A desk top study will utilise Global Marine's industry leading GeoCable Geographical Information System (GIS), developed specifically to meet the needs of the cable industry as a major tool for primary route selection and route development pre and post survey. The Desk Top Study includes:

- Landing site selection*
- Fishing activity/threat analysis*
- Oil exploration & production*
- Sea bed conditions*
- Environmental factors*
- Permits & permissions*
- Existing cables & pipelines*
- Environmental impact statements*

Network Planning

Building on the strengths and global experience of its parent Huawei Technologies, Huawei Submarine Networks offers a leading edge networks planning platform. Using Huawei's submarine system simulation software platform, network performance can be simulated to allow for varying system designs including varying conditions. This approach to network planning allows design engineers to optimize a system performance as part of the design, providing customers with a highly accurate view of network performance after installation. The Networks Planning process contains 4 steps:

- Requirement Gathering: Develop a clear picture of customer requirements*
- Analysis of Project Specific Specifications: Transmission distance, maximum capacity, discovery limitation parameter (dispersion, PMD, OSNR...)*
- System Design: Verification of fibre type over each segment length as well as optimising repeater spans*
- Proposal Generation*

Survey & Permitting

Huawei Submarine Networks brings unparalleled undersea experience and local knowledge to help get clients through every step of the survey and permitting process on time and on budget. Our services include:

- Management of surveys through third-party professional suppliers*
- Route engineering (offshore & post survey) and burial assessment*
- Dedicated local professionals to navigate governmental processes and procedures for permitting control*



Cable Provision

Submarine cable is a key element of any system and Huawei Submarine Networks works with many of the leading cable suppliers across world. We are not restricted to an "in-house" cable and therefore can provide a wide choice of cable solutions to meet the specific system security and budgetary requirements of the project. We have significant experience and access to most of the worlds leading suppliers of submarine fibre optic cable and where the situation requires it, we are also able to use a regional supplier of the clients' choice.

Manufacture

Huawei Submarine Networks brings the Huawei legacy of manufacturing excellence and superior quality control into all the products it builds. As part of our Quality Assurance program Huawei Submarine Networks also oversees all third-party components and products.

Repeaters: Our repeaters assembled using our strict quality controls and the latest submarine specified components. All components are manufactured and assembled in clean rooms meeting the highest international ISO standards

SLTE: Having already been proven in the market place, our SLTE comes from the well-established and renowned manufacturing platform at Huawei Technologies in Shenzhen, China

Installation - Terrestrial & Marine

Between Huawei and Global Marine Systems, Huawei Submarine Networks brings unrivalled global experience in the installation of both submarine and terrestrial networks. We have the exclusive support of Global Marine and its worldwide fleet providing us unparalleled access to more cable vessels than any other supplier in the world. When appropriate, we also leverage local contractors to overcome issues that typically slow down projects such as permitting, logistics, local regulations, skilled manpower. For network implementation in a terrestrial environment, Huawei Submarine Networks can deliver a quick and effective project through experienced project management and quality implementation based upon Huawei's global service platform. There are more than 100 service branch offices and more than a thousand service partners around the world.

Maintenance

Our unique relationship with Huawei Technologies and Global Marine Systems ensures that Huawei Submarine Networks can offer advice on selecting the most appropriate service level for terrestrial and marine maintenance where required.

Huawei Submarine Networks is able to offer:

A call off service for terminal manning in the event of a repair as well as full spare plant testing service, including landing equipments, cables and repeaters

Regional support services including Technical Assistance Centres and Spare Parts Centres in all major sub-continentals for contractual response to a service failure or operational query

A full range of training before and after system acceptance, that includes submarine and terrestrial network and system equipment management, cable station operation and offshore fault finding training

Project Management and Quality Assurance

Huawei Submarine Networks breadth of experience in managing complex network implementation and dedication to quality means that projects are done on time, on budget and meet the highest standards for quality assurance. To provide this high level of expertise, we have adopted the same standards that have helped Huawei Technologies become the second largest global suppliers of optical networks in the world.

Our Project management resources are where customers need them to be. Given our global coverage we are able to call upon an extensive network of local teams and subcontractors to ensure that our customers always have access to project managers in the same time zone and on a face to face basis.

