

PLEXUS – Many Systems. One Network.

This is the right moment to start thinking about your IT infrastructure.

Many Systems. One Network.

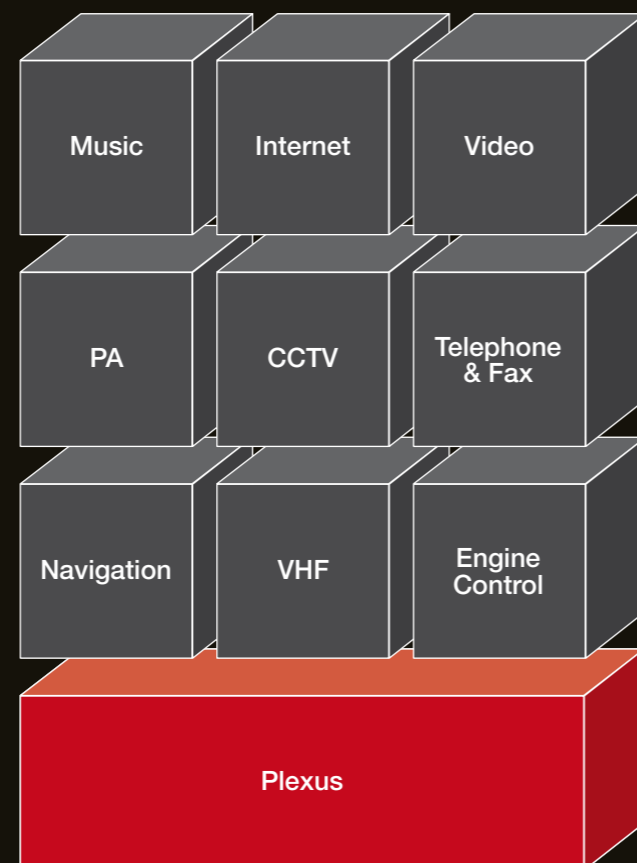
Until recently, telephony, navigation systems, AV, CCTV, telephony, Internet access and other onboard systems were designed and operated via separate and independent networks.

With modern digital communication systems, "IP-based" devices and services are now quickly becoming the norm. Interconnectivity has become crucial, and the importance of efficient, seamless Internet and phone connectivity has increased tremendously. Not being online is simply no longer an option.

A reliable converged onboard IT network infrastructure has become an absolutely crucial element for any large yacht. PLEXUS, our integrated network solution, provides a single, robust and scalable network-foundation that can accommodate all of these services.


Designed specifically for marine use, PLEXUS networks are powerful, reliable, and cost effective, combining an unparalleled level of flexibility and security with extraordinary ease of use. PLEXUS is a highly flexible modular networking concept, constructed from proven building blocks, with universally available components from top-quality manufacturers.

Uniquely, a PLEXUS network solution also covers the crucial elements of design, installation, operational services, support, documentation and crew-training. In combination with our extensive in-house networking knowledge and infrastructure, PLEXUS allows a true "end-to-end" operational responsibility.



Do away with the need for separate cabling and multiple networks. PLEXUS provides a single, secure and reliable network infrastructure for all onboard systems.





*For a rock-solid foundation,
start with the best building blocks.*

Reliability

A yacht represents a challenging environment for critical technical installations, and extreme reliability is always required and expected. Spare parts and expert help are often unavailable locally. PLEXUS bases its entire state-of-the-art network infrastructure on proven industry-standard components, specifically selected, modified and tested for maritime use. This reduces the chances of hardware malfunctions and ensures long-term availability and serviceability, as well as update and upgrade-mechanisms.


The solid reliability of PLEXUS networks is further enhanced by implementing various layers of physical and logical redundancy in the design, strictly following principles derived from years of experience in building networks, and guarding against potential failure of links and hardware equipment.

Great attention is paid to the initial installation and documentation of each PLEXUS network. All documentation and knowledge is properly transferred to the yacht during tailor-made training sessions for the crew, greatly enhancing the onboard troubleshooting capabilities.

Our relationship with our PLEXUS networks continues long after the system handover, with our substantial shore-based support structure constantly on standby. Plexus offers extensive support and service contracts, including annual maintenance and guaranteed availability of all critical components.

PLEXUS networks — superior operational reliability at lower cost — built for the future.

PLEXUS networks – reliable and professional equipment from major manufacturers, assembled in a proven, redundant design specifically for maritime use.



*Operating a network
does not need to be complicated.*

Ease of use

PLEXUS was developed from the ground up with ease of use in mind. Despite its unparalleled level of flexibility and security, a PLEXUS network remains remarkably easy to manage via an intuitive touch-screen user interface.


With PLEXUS you can easily change Internet access methods, check bandwidth usage, apply access restrictions, verify your network for faults, or check your VSAT link statistics. All at the simple touch of a button.

PLEXUS networks merge many different systems as if they were one, allowing for the seamless integration and easy management of a wide range of compatible systems for most existing yacht's technologies – be it communication, navigation, phone system, entertainment/AV, security, computers, or any other digital service. If it's IP-based, PLEXUS can handle it.

The advanced features of the PLEXUS network components allow for a tremendous amount of scalability, capacity and security.

Despite this level of sophistication, the integrated and well-structured layout of a PLEXUS network assures that all operational network management tasks can be carried out without requiring specialist skills.

PLEXUS networks integrate many different systems in one. Manage all network settings and configurations through a user-friendly, well-arranged controller menu – from everywhere, even an iPhone.



*“What do you mean,
I can’t send my fax right now?”*

Connectivity

PLEXUS networks seamlessly handle multiple connections, keeping the yacht on-line at all times, even if individual systems fail or have no connectivity.

Using VSAT, Fleet Broadband, 3G/GSM services, WiFi connections, landlines, or other requirements for connectivity, PLEXUS seamlessly integrates a yacht’s on-board network and gives the owner and crew simple and direct access, crossing all vendor and operator boundaries.

Through use of intelligent routing technologies and configurations, PLEXUS allows for advanced levels of control and load balancing of all outside connections.

Powerful and very precise access restrictions can be applied instantly at the touch of a button, using the PLEXUS controller module, giving the crew full control of the often scarce and costly available bandwidth.

PLEXUS – interfacing with all major communication methods available today, with an eye on future technology developments.

PLEXUS networks seamlessly handle multiple connections, keeping the yacht online at all times – even when individual systems fail or have no connectivity.

Now explain to him why his competition knew his quarterly results before he did.

Security

With a constantly rotating crew personnel situation, geographically widespread and mobile communication usage, and the absence of dedicated IT security staff, life aboard a yacht can imply a large exposure to IT security risks for the high-profile owners and guests aboard.

This presents a challenging set of conditions for enforcing any effective and sustainable network security measures.

With business increasingly being conducted aboard by owners and guests, potential intruders could often retrieve a wealth of confidential information, from emails to credit card data and company statistics.

By fully leveraging the advanced inherent security features of the PLEXUS components, and by carefully designing a secure segmented network, with separate networks for different user-groups, PLEXUS networks can offer an extreme level of security, encompassing all systems and media aboard – from central infrastructures, to wireless systems and Internet access methods.

Crucially, this security is achieved in a manageable and non-invasive fashion, without sacrificing the outstanding user-friendliness that characterizes all PLEXUS networks.



PLEXUS networks utilize comprehensive and sophisticated security features to protect important business data.

Support

The ever-increasing importance of IT aboard modern yachts means that IT problems really have the potential to spoil an otherwise successful voyage. All PLEXUS networks are constructed from intrinsically reliable components, designed in a redundant layout. This dramatically reduces the possibilities of any potential failure.

Should a problem occur, our approach is to take ownership of the issue immediately. We know that our clients do not really care which party in the chain is actually responsible for a problem. Their only concern is to get it solved. Now.

Our very advanced Remote Access facilities, with virtually all of the critical services – VoIP, VSAT and Support – offered via our own infrastructure, enable us to truly deliver on these promises.


From our head-office in Mallorca, our multilingual staff are well equipped to provide help. They know your network, service history, and your crew. Using our full remote access to your system, they have direct access to your critical services like VoIP and VSAT, without the need to work through 3rd parties. Immediate support is there for you – fast.

If a problem would unexpectedly require exchange of hardware, every PLEXUS component is stocked in Mallorca, ready for immediate dispatch worldwide.

We'll be there.



With its excellent OmniAccess 24/7 support infrastructure and PLEXUS built-in remote support capabilities, you're never on your own with a PLEXUS network.

A man in a white martial arts gi is shown in profile, performing a karate punch. His right arm is extended forward with a clenched fist, and his left arm is bent at the elbow with the fist held near his chest. The background is a plain, light-colored wall.

With PLEXUS training, your crew can tackle network problems themselves.

Training & Certification

To improve onboard real-life troubleshooting skills, an optional PLEXUS crew-training module has been developed to complement the extensive set of documentation, manuals and intuitive user-interfaces provided with every PLEXUS network.

Using exact and live replicas of actual PLEXUS networks at our training center, engineers will be taught to detect and repair the most common problems that they may encounter, thus reducing network downtime and lowering repair costs.

PLEXUS also offers an extensive network certification program, whereby a vessel's network is scanned for compliance with a set of objective criteria, covering the areas of security, availability, connectivity, features, documentation, training and cost-efficiency.

These certifications can either be carried out on a recurring basis or as a "snapshot" check. In either case a detailed report will be filed, including clear recommendations on how to remedy any detected shortcomings.

Hands-on PLEXUS training enables the crew to competently solve the most common problems, without requiring external help.

A clean sheet & an open mind.

Projects

With many years of experience in designing, installing and operating marine networks, our PLEXUS networks are found on some of the world's largest yachts - both new-build projects and refits. We keep a very open mind, and are able and pleased to "look over the fence" if required.

Following a design-phase and the client's project-brief, we present a carefully documented PLEXUS network design-proposal, with detailed drawings, a bill of materials on component-level, and data regarding costs, integration and planning.

The functionality and operational costs of the future network are meticulously described in a detailed "Factory Acceptance Test" document, which clearly defines what functionality a client can expect and how this is to be tested after delivery. During the procurement, installation and configuration phases, our staff will actively liaise with the contracting party as well as all other providers, presenting detailed costing and progress reports.

Shipyards and integrators will be provided with System Integrators Documentation, and the end-user will receive comprehensive, complete and very detailed documentation.

Upon the successful commissioning, testing and hand-over of the project, the ship's crew will receive an easy-to-use guide on how to troubleshoot and operate the network. This could be enhanced with a tailor-made PLEXUS training course.

Uniquely, PLEXUS is in a position to also accept an integral responsibility for services and support to be rendered in the operational phase of the yacht's use, providing the owner with a clear guarantee of our ongoing commitment to the operational support of his yacht.



Based on experience from large yacht projects and operational clients, OmniAccess designs, installs, and operates efficient IT networks.



Our Company

OmniAccess is a Marine IT & networks systems integrator and service provider. Founded in 1999, the company specializes in designing, installing and operating marine networks and services for large yachts.

We understand that the complexity and interaction of today's systems requires an integral approach, and therefore strive to provide true turn-key solutions for design, installation and operational phases of all aspects of Marine IT.

Based in Palma de Mallorca, OmniAccess has a team of highly skilled and certified IT and communications engineers, all with a strong marine background, and capable of understanding the wishes and requirements of owners and crew alike.

Furthermore, we own an extensive IT infrastructure, located at secure data-centers in Spain, the Netherlands, Italy and the United Kingdom.

An impressive and growing portfolio of high-end projects and clients is a testimony to the acknowledgement our approach receives from the demanding super-yacht industry.

If you are searching for a proven and professional solution, let us take care of IT.

Our Vision

Marine IT is a complex and vital area that requires specialist knowledge and the ability to strike a careful balance between innovation, integration, cost and functionality. OmniAccess exclusively focuses on offering integral solutions for the Marine IT market segment. We pride ourselves on building personal and direct relationships with each of our clients.

In addition to our ability to work with the most complex networks, we focus specifically on designing, building and operating reliable networks that are simple to use, while offering tangible operational and economic advantages. Marine IT technology has evolved from a "nice to have" requirement into a complex and critical element of daily yacht-operation. A successful voyage or charter would be greatly jeopardized by malfunctions on the IT front. For that reason we focus on offering proven and well supported solutions. Your network should work for you, and not the other way around.

Great emphasis is placed on using top-quality components throughout, sourced from premium equipment suppliers. All network components and services are meticulously documented, and spare components held as support, adding further investment-protection for the yacht's owners and operators.

Perhaps the most important area where OmniAccess excels is in support. Any modern large yacht requires their IT provider to have the resources and attitude to tackle any problem swiftly and efficiently. We are aware of this, and have invested heavily to create an unparalleled human and technical infrastructure that allows us to operate all critical services, such as VSAT, VoIP telephony, IP routing, and IT security, entirely in-house. This unique situation allows us to look over the fence and truly take ownership of any IT-related problem and solve it, without depending on any 3rd-party factors.

Our Other Services

SatLINK – VSAT airtime service

The SatLINK VSAT service offers a unique combination of an extremely high service-quality and a very flexible "month by month" open contract basis, without bothersome minimum contract periods or hidden penalties.

Entirely operated via a wholly-owned infrastructure on various worldwide satellite networks, SatLINK offers an unparalleled level of flexibility, service and support.

PortMAX

In selected marinas in the Mediterranean, we offer the advanced PortMAX wireless broadband service. Relying on the latest WiMAX technology, PortMAX offers speeds comparable to the fastest DSL landlines, but avoids the typical congestion and security problems that arise with common public WiFi services.

VoiceLINK

The VoiceLINK "VoIP" service offers an industry-leading combination of crystal-clear voice & fax quality and very competitive call-rates. Using a proprietary network infrastructure, we provide numerous advanced integration options and services, as well as inbound numbers in various countries.

Consulting

OmniAccess welcome the opportunity to team up with other industry experts to discuss projects and provide consulting services within our fields of expertise, from cutting-edge networks and advanced telephony solutions to complex IT requirements.

Our Partners



Let us take care of IT



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