



Key business benefits

- Central control and simple management and configuration for all satellite / terrestrial / wireless networks at the hub and at the edge.
- Operates across many vertical sectors and works equally well with enterprise network operations
- End user maintains the same IP addresses and phone numbers irrespective of technology or service provider uses
- Lower skill-set requirements

Applicable markets

- Maritime
- Armed forces
- Emergency services
- Banking
- Large enterprises

Ultra Communicate

Product line overview

Secure communications systems for voice and data optimisation over multi-bearer networks.

Many organisations rely on a variety of bearer technologies such as terrestrial, radio or satellite to provide communication between remote and central sites. These vital links may be sub-optimal for certain types of traffic due to the fact they are based on legacy networks that do not interface easily with modern IP networks or are low bandwidth links. It is therefore necessary to deploy compensating technology that can deliver maximum performance in these sub-optimal conditions.

The Ultra Communicate line of products allows the deployment of highly secure and optimised communication over the most cost-efficient network.

End-to-end solutions

Ultra Electronics AEP Networks Communicate line of products can also be integrated with the Ultra Encrypt devices for secure data transport over multi-bearer communications networks and with the Ultra Protect line of Application Access gateway products for end-to-end security enhancements.



AEP Networks

Ultra
ELECTRONICS

Optimising data, voice and video communications

When data and time-sensitive traffic such as voice and video share the same low bandwidth link, it is important to ensure that the data does not consume all of the bandwidth. This is achieved by employing advanced traffic management technology which detects the presence of time-sensitive applications and ensures that data traffic is interspersed with it in smaller packet sizes. This ensures that toll-quality voice is delivered across the link regardless of the data being transferred. To improve web browsing response time and to decrease the amount of bandwidth used due to web browsing, it is possible to deploy some Ultra Communicate products with an integrated web proxy caching module. This module caches frequently requested web pages to eliminate the need to download content multiple times.

Lowest cost network selection

When users are out of the office, they often have multiple network options available to them such as Wi-Fi, 3G and satellite. If they are connected on the move then different networks will become available over time. The choice of service they choose is a trade-off between cost, speed and reliability. Ultra Communicate products and solutions allows administrators to set up preferred network rules so that users do not have to decide which network they should use. These rules ensure the network that best fits current communications requirements is chosen. This prevents the use of inappropriate or more expensive services when viable alternatives exist.

Ensuring link security

When connecting back to the corporate network, the best network available in terms of cost or performance will often be an open public network such as in a café or a hotel. To protect commercially sensitive or confidential data from being intercepted, it is necessary to ensure that all network traffic is encrypted.

It is also possible to integrate the Ultra Communicate line of products with the Ultra Encrypt hardware-based Enhanced Grade Network Encryptors to provide enhanced high-grade security.

Office workgroup and single user solutions

Ultra Communicate is available as an office workgroup solution that supports multiple users who need to set up data, voice and video communications in a remote and often temporary location and as a single user solution for individuals travelling outside the office.



Typical uses

Below are some examples of how the Ultra Communicate line of products and solutions has allowed organisations to implement secure end user access to their centralised resources from a wide variety of locations and devices:

Customer Type	Application	Benefits
Maritime	Ship-to-shore communications for crew and passenger voice and data communications, point-of-sale transactions	The ship has the ability to auto-roam between multiple satellites and land-based mobile communications such as 3G
Armed Forces	In-theatre communications between the field and HQ	Reliable, secure communication regardless of the network type available
Banking	Integration of legacy networks into modern IP networks.	Investment protection as organisations do not need to upgrade immediately to get the benefit of a modern IP network
Emergency Services	In-vehicle communications	Secure and reliable mobile communication for voice and data with guaranteed performance
Enterprise	Internet backup in the event of primary link failure. The ship has the ability to auto-roam between multiple satellites and land-based mobile communications such as 3G	Provides the ability to connect to their critical cloud-based services when the primary internet link fails. Technology ensures that expensive satellite links are disconnected when not in use

Quick deployment and minimal onsite support

The Ultra Communicate line of products contains technology that enables the administrator to manage all configuration tasks remotely. After initial basic configuration, the platform can be sent out to the remote site. Once physically installed, the configuration can be automatically downloaded and management tasks can be performed remotely. This means that the platform can be sent to the remote location before the exact configuration details have been determined. As well as reducing the initial deployment time for mission-critical operations, this functionality reduces the ongoing maintenance costs by eliminating the need for onsite visits by qualified engineers.

Key features and benefits

Cost reduction

- Ensures that expensive network connectivity such as satellite is only active when required so that unnecessary charges are not incurred
- All configuration and support can be performed remotely which eliminates the requirement for onsite visits by qualified engineers and reduces initial deployment time
- Available in network platform, deployable and portable versions which allow groups of users or individuals to benefit fully from SCOPE technology

Increased network availability and performance

- Automatically selects the best network available based on administrator rules
- Built-in optimisation technology ensure that toll-quality voice traffic is maintained over low-bandwidth links even when there is contention with large data transfers
- Web proxy caching technology ensures optimised web browsing which lowers response times for users and minimises the use of expensive networks
- Encrypted communication ensures that all data is kept private even when the remote user is using a public network such as a hotel network.

Services

AEP Networks have a wide range of professional services and support packages available to help install, configure and maintain a secure application access infrastructure. For more details please see the Service Product Sheet.



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