

Our innovative solutions provide the best communications possible, without borders, across technologies – despite all challenges.

Vocality Gateway Suite

CUBIC™
vocality

Vocality Gateway Suite:

The Vocality Gateway Suite is a family of software products designed to offer the best in network optimization and acceleration. The modular application-based design of the software delivers great flexibility and future scope for a wide range of additional software applications.

The software is fully compatible with standard commercially available computing hardware, and can be embedded in to your own platforms via the API and SDK.



Modules:

Enhance

Enhance allows customers to achieve network acceleration and optimization from a single software solution. Our advanced technology ensures data is transmitted efficiently, voice calls are clear and video transmissions remain smooth and jitter-free. The software unifies our voice optimization and data acceleration technologies into a single solution.

- ▼ Reduce voice traffic bandwidth by up to 65%
- ▼ Improve data download speeds

Dispatch

Dispatch is a lightweight console application with a drag-and-drop user interface, to easily create talk groups. It provides interoperability between multiple radio devices and manufacturers. Dispatch can be installed on a network server or loaded directly on to the Vocality RoIP, removing the need for additional radio dispatch hardware.

- ▼ Easily create radio talk groups
- ▼ Support for a wide range of radio manufacturers

Multi-bearer

Multi-bearer is a smart, rules-based module that interfaces directly with several wireless and wired technologies including 4G LTE, satellite, Wi-Fi and Ethernet WAN. Users can define the bearer priority on available criteria, for example link availability. Multi-bearer automatically selects the most suitable bearer based on availability and the customer-defined criteria.

- ▼ Automatic switching between bearers
- ▼ User defined bearer priority

Secure

Secure provides customers with increased levels of security for network traffic. It includes technologies such as secure VPN tunneling, encryption and NAT traversal. The Secure module ensures that organizations can be assured that their data and voice traffic remains secure.

- ▼ Support for IPSec tunneling
- ▼ Inter-operable with industry standard routers and VPN systems

Ways to use the Vocality Gateway Suite:

Software only

The Vocality Gateway Suite can be provided as a software only solution, ready to run on your own linux server or virtual machine.

Third Party Embedded Devices

The Vocality Gateway Suite can be integrated directly into third-party devices including field-deployed equipment, IP cameras, satellite modems and terminals. The Vocality Gateway Suite includes a range of API / SDK features to enable a rapid route to market for Vocality Gateway Suite embedded partners.

Vocality Devices

There are a number of Vocality hardware solutions with the Vocality Gateway Suite software inside, for instance:

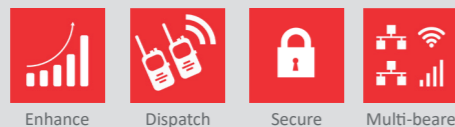
- ▼ Vocality RoIP
- ▼ Vocality SD20
- ▼ ELITE Access
- ▼ ELITE Fusion

Devices:

Vocality Gateway Suite software is available inside a number of Vocality devices.

Vocality RoIP

Vocality RoIP provides users with a simple-to-use, small form factor radio gateway, unlike any other on the market today. The palm-sized device supports connection to a wide range of push-to-talk radio manufacturers' equipment and offers an extensive range of connectivity including 4G LTE, Wi-Fi and satellite.



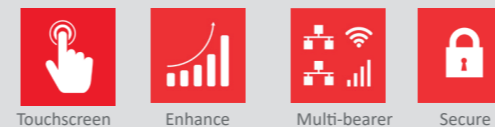
Enhance Dispatch Secure Multi-bearer



ELITE Access / Fusion

The ELITE Access and Fusion are powered by the Vocality Gateway Suite, offering customers two unique solutions, each engineered to meet specific requirements.

Designed to provide customers with small but powerful mobile communication solutions, both products include an integrated touchscreen and support a wide range of network connectivity options.



Touchscreen Enhance Multi-bearer Secure

Vocality SD20

The Vocality SD20 is a small but powerful unit, ideal for customers looking for cost competitive, easily deployable, network optimization. The unit addresses demand for high performance telecoms and networking in high latency, low bandwidth networks, such as satellite and cellular.



Enhance Secure

Created for a Cellular Generation

Vocality RoIP provides a wide range of cellular connectivity technologies via optional built-in modules and support for cellular dongles from a wide range of network providers.

Modular Design

Vocality RoIP supports the complete range of Vocality Gateway Suite modules and has hardware options which include a choice of integrated 4G LTE and Wi-Fi modules. Vocality RoIP provides an incredible choice of features to meet specific project requirements exactly.

Support Multiple Radios

Radio devices from different manufacturers are brought together as part of a single radio system, creating a unified network, regardless of radio brand, frequency or technology.

Multi-Purpose Serial Ports

Four serial ports on each Vocality RoIP allow for programming and control of up to four disparate radio systems. The serial ports can also be used to connect other serial devices such as telemetry data for transmission over the network.

Dual-Personality Network Ports

Two built-in network ports can be used to connect to other networks, including satellite and fixed line. Alternatively they can be used to connect a laptop, IP phones and IP cameras to the 4G LTE or Wi-Fi network.

Vocality RoIP

Vocality RoIP allows the connection of traditional push-to-talk and digital radio systems to IP and SIP based networks.

- ▼ Easily connect radios over 4G LTE and other IP networks
- ▼ Extend push-to-talk (PTT) services and Land Mobile Radios (LMR) over IP networks - otherwise known as RoIP (Radio over IP)
- ▼ Radio Gateway into the most popular SIP switches in use today
- ▼ Provides seamless connectivity between radio users and telephone users including landlines and cellular handsets
- ▼ Includes PoE capability

ELITE Access

The perfect device for portable secure team communications.

- ▼ Easily connect restricted laptops and computers to public networks for connection to head office
- ▼ Supplied as standard with Vocality Gateway Suite Enhance, Secure and Multi-bearer modules
- ▼ Integrated 3G and Wi-Fi with internal and external antenna options
- ▼ Externally facing SIM card slot
- ▼ Accessible USB ports for connecting third-party devices, such as country-specific 4G LTE dongles
- ▼ Dual network WAN ports for connecting to satellite terminals and fixed-line Internet connections



ELITE Fusion

The ultimate device for secure portable team communications with support for radios, telephones and computer devices.

All of the features of ELITE Access along with:

- ▼ Connect radios, telephones, laptops, network devices and serial devices securely across public networks
- ▼ Support for wide range of radio manufacturers and frequencies
- ▼ Connect up to two analogue and two VoIP telephones
- ▼ Separates to support government-level encryption devices



Vocality SD20

Compact network acceleration and optimization device for satellite, Wi-Fi and cellular networks.

- ▼ Ideal for remote users requiring network performance enhancement
- ▼ Can be used at central site for smaller deployments
- ▼ Comes with Vocality Gateway Suite Enhance module as standard
- ▼ Easily connect between network device and satellite, Wi-Fi or cellular routers
- ▼ LAN and WAN ports
- ▼ Little or no user configuration required
- ▼ Support for Secure module via license key



Software Modules:

The capabilities of your Vocality Gateway Suite software expand with each Module that you license. This puts a wealth of functionality at your fingertips, while ensuring you are only charged for elements you actually need in your network.

Modules can be licensed for any Vocality Gateway Suite software, whether it runs on your hardware or our Vocality devices, though release dates of modules for different platforms may vary.

A few of our modules are explained in more detail here.

Dispatch

Dispatch is the newest Vocality Gateway Suite Module to be made available.

Dispatch can remove the need for additional radio dispatch hardware by being installed on a network server or loaded directly on to the Vocality RoIP.

Easily create radio talk groups

Assign radios to talk groups using an intuitive drag-and-drop user interface. Dispatch is a lightweight console application with a drag-and-drop user interface, to easily create talk groups. It provides interoperability between multiple radio devices and manufacturers.

In simple networks this completely avoids the need for additional radio dispatch equipment.



Dispatch



Secure

Designed for commercially sensitive communications, Secure provides network security into a number of typically challenging wide area network scenarios.

Support for market-leading tunneling and encryption technologies means customers can secure their voice, video and data communications in confidence.

Secure Mobile Communications

Secure provides customers with the confidence that all voice, radio, video and data traffic remains private.

Interoperability with industry standard routers and VPN systems means customers can integrate Secure quickly and easily within their existing IT infrastructure and policies.

The software module is hardware independent with support for standard Linux PCs, Servers, Virtual Machines and custom hardware platforms running either Intel or AMD processors.

Secure is compatible with a wide range of well known security certificate vendors providing customers with absolute confidence.

Trusted certificate providers include:



VPN Tunnels



Encryption

Multi-Bearer

Ideal for those on the move, first responders, and remote workers. Where communications are essential, the Multi-bearer module provides the ability to switch between network technologies including cellular, Wi-Fi, satellite and fixed-line networks, to ensure communications are never interrupted.

Our smart algorithms actively seek out which networks are available and automatically switch between them based on availability or user-defined preferences.

Intelligent Network Switching

Multi-bearer gives users great flexibility when it is deployed in remote locations, with varying availability of local or satellite networks.

The software module searches for all available public cellular, Wi-Fi, satellite and fixed line networks. It checks the connection status and will quickly establish a connection, ensuring communications are on line within minutes of deployment and, most importantly, remain on line.

Intelligent network switching actively monitors all available networks and will automatically switch should network availability change, with little or no down time.

Users can define their network preferences via a simple to use interface. The module will attempt to connect to the available networks in order of availability and user-defined preference.

When combined with Secure, the Multi-bearer module seamlessly re-establishes secure tunnels following the switching of network bearer.



Multi-Bearer



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