

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

# Product Portfolio



# Vocality Gateway Suite

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.



Enhance



Dispatch



Multi-bearer



Linux



Secure



VM Ready

## Modules include:

### 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 wireless and wired technologies including 4G LTE, satellite, Wi-Fi and Ethernet WAN. Users can define the bearer priority on criteria such as 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

# Vocality RoIP

Vocality RoIP provides users with a simple-to-use, small form factor radio gateway, unlike any other on the market today. The hand-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.



## Designed for a Cellular Generation

Vocality RoIP offers a range of modern integrated high-speed cellular connectivity options, and supports cellular dongles from a wide range of network providers. This allows users to choose a cellular network that best meets their needs.

## Modular Design

With support for the complete range of Vocality Gateway Suite software modules and a choice of integrated 4G LTE and Wi-Fi modules, Vocality RoIP provides an incredible choice of features to meet your specific project requirements.

## Support Multiple Radios

Radio devices from different manufacturers are brought together as part of a single radio system, providing 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 M2M 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, or used to connect laptops, 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



Enhance



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Multi-bearer

# Vocality SD20

The Vocality SD20 is a small but powerful network optimizer, running the Vocality Gateway Suite Enhance module. It is ideal for customers looking for a cost-competitive, easy to deploy device. The unit addresses demand for high performance telecoms and networking in high latency, low bandwidth networks, such as satellite and cellular.



Enhance



Secure

## 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 Vocality Gateway Suite Secure module via license key upgrade



# ELITE Access / ELITE Fusion

The ELITE Access and ELITE 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.



## 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 the Vocality Gateway Suite Enhance, Secure and Multi-bearer modules
- ▼ Integrated 3G modem 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
- ▼ Integrated touchscreen for simple user configuration

## ELITE Fusion

The ultimate device for secure portable team communications with support for radio, telephone and computer devices.

- ▼ 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 analog and two VoIP telephones
- ▼ Supplied as standard with the Vocality Gateway Suite Enhance, Secure and Multi-bearer modules
- ▼ Integrated 3G and Wi-Fi
- ▼ 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
- ▼ Integrated touchscreen
- ▼ Separates to support government level encryption devices



Touchscreen



Enhance



Multi-bearer



Secure



# Pro Series

The Pro Series product range is designed to offer maximum capacity, compatibility and flexibility in both rackmount and low profile housings.

Often used in a centralized communications hub or as part of a rapid deployment flyaway communication kit, the rackmount units provide the widest range of connectivity via a modular card-based system and offer redundant power supply options.

The V50plus provides a comprehensive range of connectivity in a compact design. The unit is often used in the field by news broadcasters and government agencies to satisfy a diverse range of communication requirements.



## V50plus

Ideal for integration into flyaway kits and mobility applications where the power and capability of a larger Pro Series unit is required; but space and power are limiting factors.

- ▼ Dual 10/100 port network router
- ▼ Dual serial port for legacy systems
- ▼ 4 to 16 voice ports to connect analog phones (FXS and FXO)
- ▼ 8 to 16 4-wire ports for connecting radios
- ▼ 1 to 8 ISDN BRI ports
- ▼ Support for PoE
- ▼ Optional secure voice module
- ▼ Includes PACE+ voice optimization and TCP PEP data acceleration

## V150

Offering the optimum combination of modular flexibility and redundancy, this 1RU rackmount device is at home in a fixed rack infrastructure installation or as part of a flyaway rack case. Often used by satellite news gathering trucks or tactical communications vehicles.

- ▼ Supports an extensive range of connectivity options via modular cards
- ▼ Supports up to 3 cards per chassis
- ▼ Includes integrated PSU with optional redundant PSU
- ▼ Includes PACE+ voice optimization and TCP PEP data acceleration

## V200

Suited to central hub-based applications serving Pro Series and BASICS remote units. The 3RU rackmount chassis V200 offers our most comprehensive range of network functionality and connectivity options.

- ▼ Supports an extensive range of connectivity options via modular cards
- ▼ Supports up to 10 cards per chassis
- ▼ Hot swappable PSU cards with option for a redundant card
- ▼ Includes PACE+ voice optimization and TCP PEP data acceleration

# BASICS Series

The BASICS family of products provides the lowest Size, Weight and Power while offering numerous connectivity options. This extensive range of products is ideal for remote locations where small form factor and high port density is critical. Offering connectivity options including telephones, radios, IP and serial enable the customer to create a single unified network regardless of remote device technology.

The BASICS products are available boxed, ready to use, or in a PC104 format for simple integration into third-party systems.



## Radio Relay

BASICS Radio Relay allows the connectivity of traditional push-to-talk and digital radio systems to IP and SIP-based networks.

- ▼ Extend push-to-talk (PTT) services and Land Mobile Radios (LMR) over IP networks - otherwise known as RoIP (Radio over IP)
- ▼ Radio Relay (RoIP) gateway into SIP switches such as Asterisk, Cisco, Avaya and others
- ▼ Acts as a gateway to media servers Motorola WAVE, Intracom VCOM, Mutualink IWS and more
- ▼ Provides seamless connectivity between radio users and telephone users including landlines and cellular handsets
- ▼ Optional PACE+ voice optimization

## Voice

For telephone handsets (FXS) and telephone exchanges (FXO), the BASICS Voice provides a simple-to-use interface for connecting phones to an IP network.

- ▼ Connect conventional POTS telephone systems to modern VoIP systems
- ▼ Voice optimization to ensure clear communications
- ▼ Low bandwidth requirements
- ▼ Secure voice support (STE)
- ▼ Compatible with SIP systems including Cisco Call Manager and Asterisk
- ▼ Optional PACE+ voice optimization
- ▼ Optional router feature key to enable full router capabilities

## Hybrid

The BASICS Hybrid is the complete all-in-one solution providing connectivity for a wide range of technologies in a single unit.

- ▼ Satellite-aware integrated router functionality
- ▼ Support for VoIP and SIP-based systems
- ▼ Analog phone connectivity (FXS)
- ▼ Secure voice support (STE)
- ▼ Radio & RoIP support (4W E&M)
- ▼ Serial interfaces (1 synchronous, 2 asynchronous)
- ▼ Includes PACE+ voice optimization and TCP PEP data acceleration

## Additional Options

- ▼ Rackmount chassis – Easily rackmount up to 3 BASICS units and provide redundant power

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