

# QuadraReach Mobile Voice over IP (mVoIP) service

It is remarkable how often it is difficult to find a usable mobile phone signal. The QuadraReach solution overcomes this by providing high performance mVoIP services cost-effectively where wireless connectivity is unavailable.

The mVoIP service is designed to provide telephone connectivity over the QuadraFlex WiFi infrastructure. In areas where GSM/3G/4G connectivity is not available, a QuadraFlex network can be deployed and mobile phone connectivity can be provided over this.

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**The QuadraReach server allocates a static phone number to every account. Significant savings are made over the WiFi when outbound calls are made to most world-wide locations.**

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Every client should have the Datasat mVoIP app. Every time the user enters the QuadraFlex WiFi network, the app registers the phone to the QuadraReach Server. Licensing and service are set up on the basis of individual phone identification and/or IMEI information and the actual mobile number. The QuadraReach server allocates a static phone number to every account. Significant savings are made over the WiFi when outbound calls are made to most world-wide locations.

For example, the server allocates 01189123456 (a std. UK landline number) as the SIP number to a handset. Assume the handsets actual mobile number is 07912345678 (a std. UK mobile number).

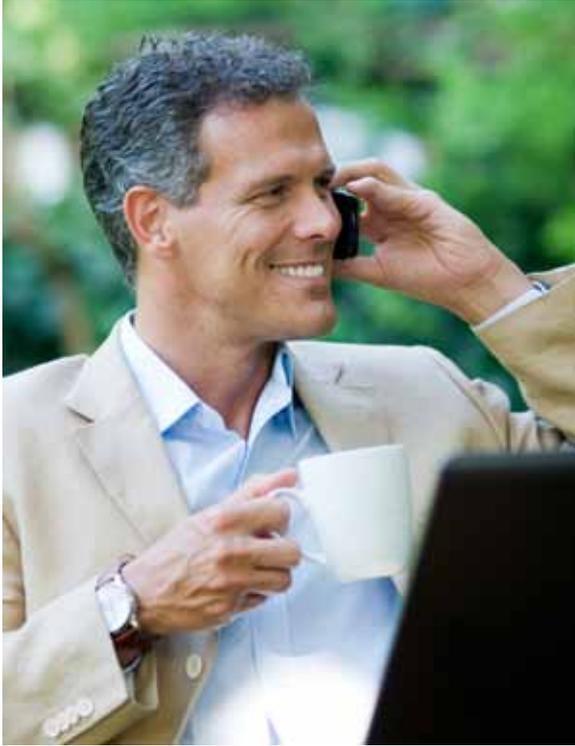


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Datasat mVoIP service is provided via four components

- Datasat QuadraFlex series wireless access points, which provide the WiFi infrastructure needed for the service to work.
- Datasat mVoIP app which is available for Android, Blackberry and iOS platforms.
- A Datasat QuadraReach server, which handles all configurations and routings.
- A SIP gateway which handles network interconnect and billing.



## The service works in two modes:

### Unified number calling

In this mode, the customer gives out his SIP number (0118912345) to all. If the customer is abroad and within WiFi network coverage, the app should register the phone to the service. Any incoming calls made to the 01189 number are then made to a std. UK landline number. The calls are routed over the WiFi network at minimal cost (incoming SIP rate) to the customer. Usually they would have to pay for the roaming incoming charges of this call, if they were to use their 079 number.

If the customer is not within Wi-Fi coverage, and anyone calls the 01189 number, the server checks status of the number, which comes up as unregistered (as the customer has no Wi-Fi coverage) and the call is routed to the customers 0791 number which is the fallback number. In such a case the individual making the phone call still only pays the local outgoing fee to the 01189 number, however the customer pays the std. roaming incoming fee for the call and the fee for one call to the 0791 mobile number.

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## Outbound calls are significantly cheaper over the service, as these calls are routed over the SIP server.

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In essence, this service unifies the customer identity to just one number, in this case a 0118 or UK local landline number. Depending on the location of the service, and gateway, individual geographical numbers can be allocated.

### Cost effective bundled calling

In this mode, the customer does not have a fallback mobile number. It is designed to provide cost effective calling between SIP customers. For example in a mining community, each customer can have a SIP number (a 01189 or UK landline number), and calling each other is achieved by calling the SIP number only. Significant cost savings are made as incoming calls and outgoing calls are significantly cheaper than using standard mobile roaming methods and charges.

Contact us today with your communications requirements on +44 (0)118 934 9199 or email us at [sales@datasat.com](mailto:sales@datasat.com)