consoleconnect

The simpler, **smarter way to connect**

Edge SIM
Service specification
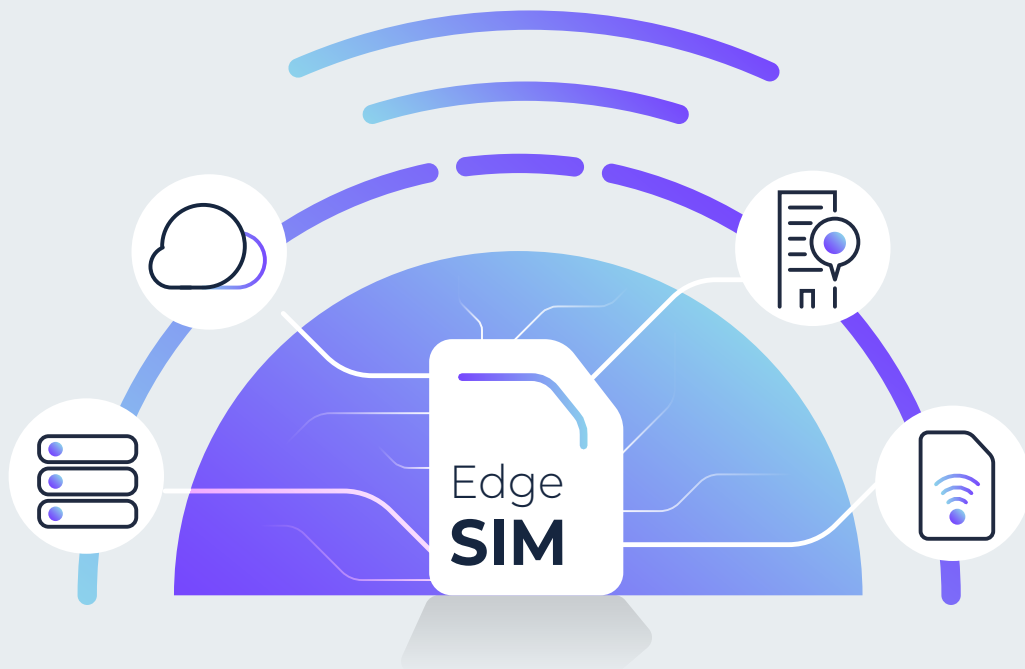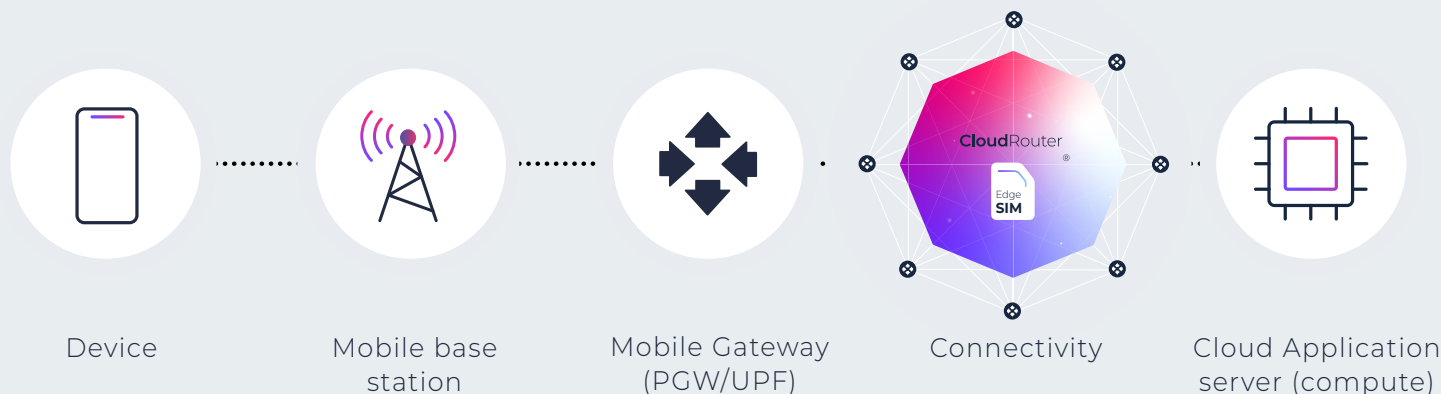
consoleconnect.com

Table of contents

Note:
- This Service Specification is for informational purposes only and does not form part of the Agreement between you and Console Connect.
- Console Connect reserves the right to amend this Service Specification at any time without notification.
- All information contained in this document shall not be published or disclosed wholly or in part to any other party without Console Connect's prior permission in writing.

1. Introduction

| Device | Mobile base station | Mobile Gateway (PGW/UPF) | Connectivity | Cloud Application server (compute) |

1. Edge SIM enables end–to-end connectivity from your edge mobile device to your designated Cloud or data centre.

    a. Edge devices can be distributed worldwide and connected to the Cloud via local mobile networks in over 180 countries (note: ~120 countries are offered as self-service options on the Console Connect portal; the remainder are available on request) where there is Service Coverage and grouped into several Pricing Zones.

    b. The end-to-end connection from the mobile device is secured over a private path direct from the mobile device into the CloudRouter®

    c. Groups of SIMs called "SIM Pools" act as an individual site in CloudRouter®, allowing for easy configuration to build private networks to multiple clouds and data centres.

    d. Configuration of Edge SIM is totally automated, allowing you to build your own networks in minutes.

2. An ordering service is provided in Console Connect together with a SIM management portal.

    a. Edge SIM can be ordered any time over the Console Connect ordering portal, similar to other Console Connect services.

    b. The newly ordered Edge SIMs can be added to any of the existing SIM Pools, or if required, you can set up a new SIM Pool. SIM Pools can be added to your existing or newly defined sites on CloudRouter®.

3. The setup is simple. Just choose the available service gateway, subnet APN and DNS.

2. Physical Plug-in SIM card

Main Characteristics

Card body material	Polycarbonate (100% PC for 2FF & 3FF, mix PC+ABS for 4FF)
Card body options	Plug-In Mini-SIM card (2FF), Micro SIM (3FF) or Nano SIM (4FF)
Robustness	ETSI TS 102.671 + extended JEDEC tests set
Classification	RoHS, REACH, Halogen-Free
Operating temperature	-40°C to + 105°C
Storage temperature	-40°C to + 125°C
Supply Voltage	ISO class A (5V), B (3V) & C (1.8V)
Expected Lifespan	10 years

3. Concept of SIM Pool

1. A SIM Pool is a group of SIMs that share the same service gateway and configurations, such as subnet and DNS server.

2. SIMs can be added to a SIM Pool or moved to another SIM Pool.

3. A SIM Pool has to be added to a CloudRouter® before the traffic can be routed to your network.

4. Gateway Region

You can choose how the service is routed to your destination to achieve better latency performance. Traffic flows from the SIM location towards the Edge SIM gateway. The Edge SIM mobile gateway is the ingress point to the CloudRouter® network. To minimize latency, it is recommended to select the Edge SIM gateway location that is closest to the end location (cloud or data centre) that is processing the data generated by the Edge SIM device.

5. DNS Server

It enables the lookup of correct IP addresses from the domain name. You can select the platform-provided DNS or define your own DNS if necessary.

6. Service Coverage

Our Edge SIM allows your edge devices to receive services from local mobile operators in many countries. These countries are grouped into service zones with the same prices, hence called Pricing Zones. There are 9 Pricing Zones altogether, including the following:

Asia-1		Asia-2	Asia-3	Europe-1		Europe-2		US & Canada	Americas-1	Africa & Middle East - 1	Africa & Middle East - 2
Australia	Myanmar	Kazakhstan	Brunei	Aland	Lithuania	Albania	Luxembourg	Canada	Argentina	Democratic Republic of the Congo	Chad
Bangladesh	New Zealand	Pakistan	East Timor	Bulgaria	Mantenegro	Austria	Macedonia	Puerto Rico	Colombia	Isreal	Congo
Cambodia	Philippines	Uzbekistan	Fiji	Croatia	Netherlands	Belarus	Malta	United States	Costa Rica	Kenya	Gabon
China	Singapore		Guam	Czech Republic	Norway	Belgium	Moldova	US Virgin Islands	Ecuador	Kuwait	Ghana
Hong Kong	South Korea		Kiribati	Denmark	Russia	France	Poland		El Salvador	Malawi	Jordan
India	Taiwan		Laos	Estonia	Serbia	Georiga	Portugal		Mexico	Nigeria	Lesotho
Indonesia	Thailand		Mongolia	Faroe Islands	Spain	Greece	Romania		Nicaragua	Saudi Arabia	Madagascar
Japan	Vietnam		Mauru	Finland	State of Vatican City	Greenland	Slovak Republic		Panama	Tanzania	Mozambique
Macau			Palau	Germany	Sweden	Hungary	Slovenia		Peru	Uganda	Niger
Malaysia			Papa New Guinea	Ireland	Switzerland	Iceland			Uruguay	Zambia	South Africa
			Rota	Italy	Ukraine	Isle of Man			Venezuela	Zanzibar	United Arab Emirates
			Saipan	Latvia	United Kingdom						
			Tonga	Liechtenstein							
			Vanuatu								

More countries or destinations are available on request. Please contact your account manager to check service availability.
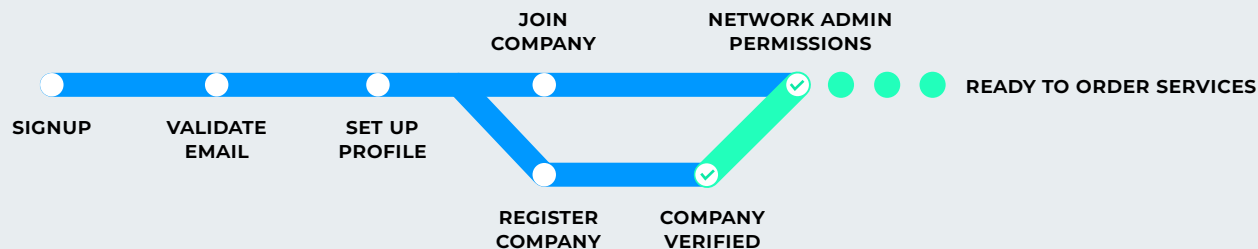
7. CloudRouter®

CloudRouter® allows you to build instant virtual networks between different clouds, SaaS applications and edge mobile devices, enterprise locations and other networks. Without complicated configuration, CloudRouter® enables the creation of a private and secure Layer 3 network between your different network endpoints.

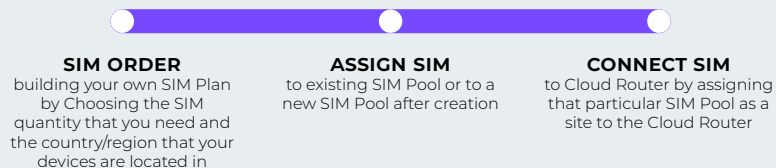More details on CloudRouter can be found on our website:
https://app.consoleconnect.com/service-specification/cloudrouter

8. Customer Journey

1. Console Connect account setup and company registration

a. Getting started with Console Connect is simple. Once you have signed up you will receive an email to verify your email address.

b. Next, set up a password and complete a couple of details about you. Then, you'll join or register your company in Console Connect.

c. If you register your company on Console Connect, you will be the Account Administrator. Your company will need to be verified before you can order services.

d. On CloudRouter®, you can build instant virtual networks between your different clouds, SaaS applications, edge devices, enterprise locations and other networks.

2. Edge SIM ordering and setup

SIM ORDER
building your own SIM Plan by Choosing the SIM quantity that you need and the country/region that your devices are located in

ASSIGN SIM
to existing SIM Pool or to a new SIM Pool after creation

CONNECT SIM
to Cloud Router by assigning that particular SIM Pool as a site to the Cloud Router

a. When you order some SIM cards, a default SIM Pool is created (AKA 'Site') where the subnet is assigned. Alternatively, you can choose any of the existing APN or subnets available.

b. Our platform will assign an IP address and APN to each SIM.

c. Then a routing path is created based on the IP address range in the SIM Pool to the Console Connect platform via the CloudRouter®.

d. On CloudRouter®, you can build instant virtual networks between your different clouds, SaaS applications, edge devices, enterprise locations and other networks.

9. SIM Management Portal

Our platform provides a self-service management portal for you to manage the connectivity of your own SIMs.

Edge SIM Management Portal provides management of 1) SIM Pools; 2) SIM orders as well as 3) SIM inventory.

1. SIM Pools

This portal view enables you to have an overview of all available SIM Pools and the summary information of each including the SIM Pool name, quantity of SIMs, APN name and status.
Depending on your configuration, you may move SIMs across different available SIM Pools, remove the SIM Pool and update the DNS server configuration of the SIM within that SIM Pool.
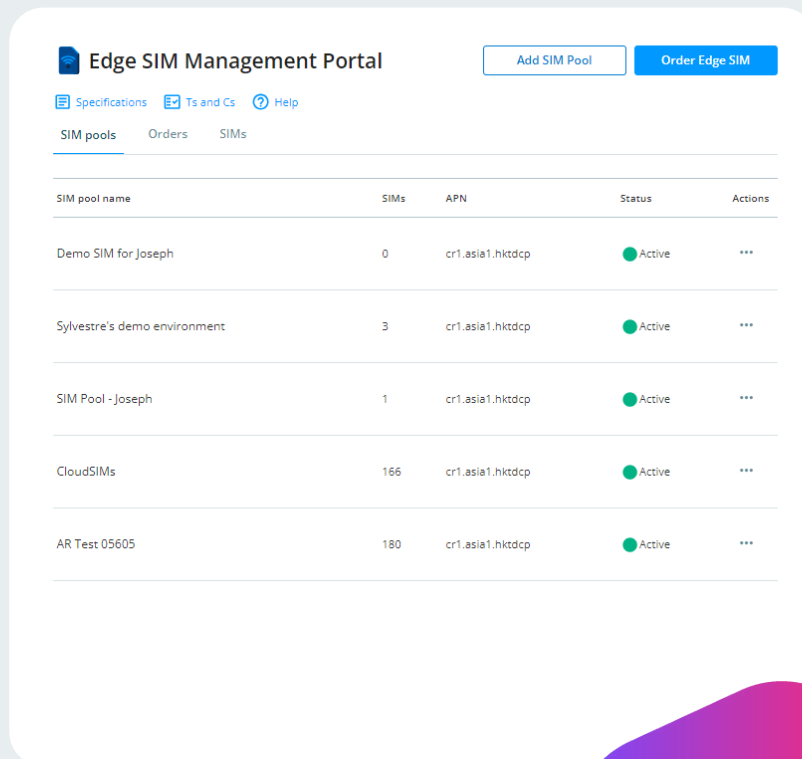
The user may also click any SIM Pool to navigate the summary and IP Configuration of the selected SIM Pool.

Under SIM Pool Summary, you can also see the following information:
      i)   SIM Types
      ii)   Monthly data quota
      iii)   Quantity of SIM under the SIM Pool
      iv)   Available Service coverage

Under IP Configuration Summary, you will also see the following information:
      i)   APN name and subnet
      ii)   Edge SIM device subnet
      iii)   Break-out location to the Console Connect Platform
      iv)   CloudRouter name
      v)   Name of this SIM Pool on CloudRouter Site
      vi)   DNS and DNS IP addresses, if applicable

📶 Edge SIM Management Portal

Add SIM Pool   Order Edge SIM

Specifications   Ts and Cs   Help

SIM pools   Orders   SIMs

SIM pool name	SIMs	APN	Status	Actions
Demo SIM for Joseph	0	cr1.asia1.hktdcp	● Active	•••
Sylvestre's demo environment	3	cr1.asia1.hktdcp	● Active	•••
SIM Pool - Joseph	1	cr1.asia1.hktdcp	● Active	•••
CloudSIMs	166	cr1.asia1.hktdcp	● Active	•••
AR Test 05605	180	cr1.asia1.hktdcp	● Active	•••

2. SIM orders

You can also click any SIM order to navigate the order summary, delivery address and Billing information of the selected SIM order.

Under SIM Order Summary, you can also see the following information:
- i) SIM Types
- ii) Name of Monthly data plan
- iii) Quantity of SIM under the SIM Pool
- iv) Available Service coverage
- v) Type of Contract joined
- vi) Contract start date

Billing Summary may show the following information:
- i) Payment summary of all applicable charging items
- ii) Rates for each pricing zone

Edge SIM Management Portal

Order Edge SIM

Specifications   Ts and Cs   Help

SIM pools   Orders   SIMs
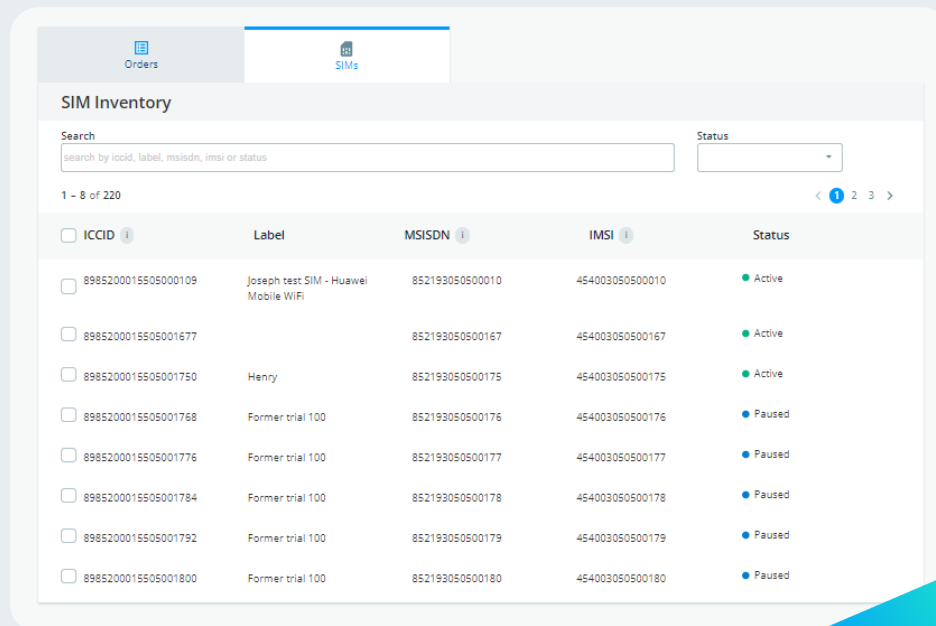
Order name	SIMs	Order type	Status
Demo SIM for Joseph	10	Pay as you go (PAYG)	🟢 SIMs Delivered
Malaysia_test_GLF	10	Pay as you go (PAYG)	🟢 SIMs Delivered
20230705BelgiumOffice	100	Pay as you go (PAYG)	🟢 SIMs Delivered
20230407dummy80	80	Pay as you go (PAYG)	🟢 SIMs Delivered
Order Test - 1	100	Pay as you go (PAYG)	🟠 Processed
Sylvestre 2 Demo	10	Pay as you go (PAYG)	🟢 SIMs Delivered
Sylvestre	20	Pay as you go (PAYG)	🟢 SIMs Delivered
dummy order 1	10	Pay as you go (PAYG)	🟢 SIMs Delivered
20230515	10	Pay as you go (PAYG)	🟢 SIMs Delivered

3. SIM inventory

This portal view enables you to have an overview of the entire SIM inventory allocated to the enterprise and the summary information of each SIM including the ICCID, user label, MSISDN, SIM Pool that it belongs to, Order and the SIM's current status.

You can click any SIM to manage the Activation status (Activate and Pause) and the user label. Further details of the SIM can be accessed here, including: ICCID, MSISDN, IMSI, Detected IMEI as well as the respective SIM Pool and SIM Order.

9. Additional Information on Edge SIM

Please visit our following website for further information about Edge SIM.
https://www.consoleconnect.com/help/iot/

How do I **sign up?**

- Take control
- Cut complexity
- Make interconnection effortless

Easy as a click! Try it for free:
Register now

Have other questions we didn't cover?

Join our community of experts.

www.consoleconnect.com
Talk to us: sales@consoleconnect.com