

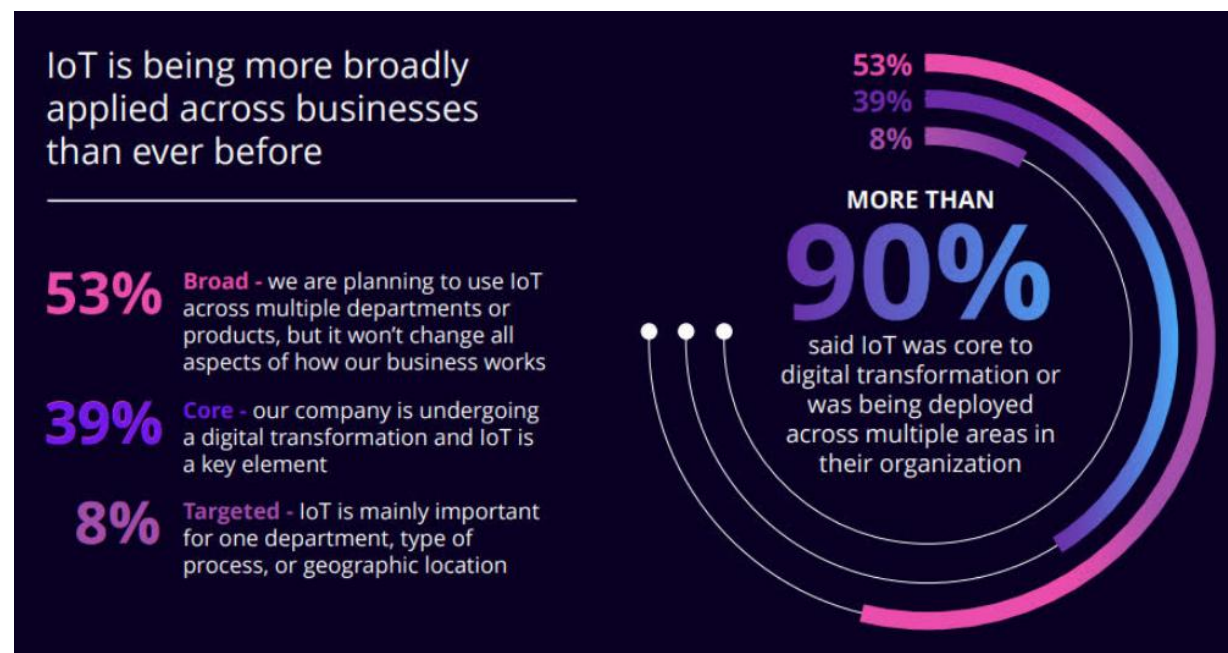


Advanced Data SIMs

Software-defined mobile connectivity for IoT



IoT underpins digital transformation



- > 90% of enterprises state that Internet of Things (IoT) solutions are central to their digital transformation plans

Source: Omdia, 2022

Critical cellular IoT connectivity, 2023-33

[Source: Transforma Insights IoT Forecast Database, 2024]

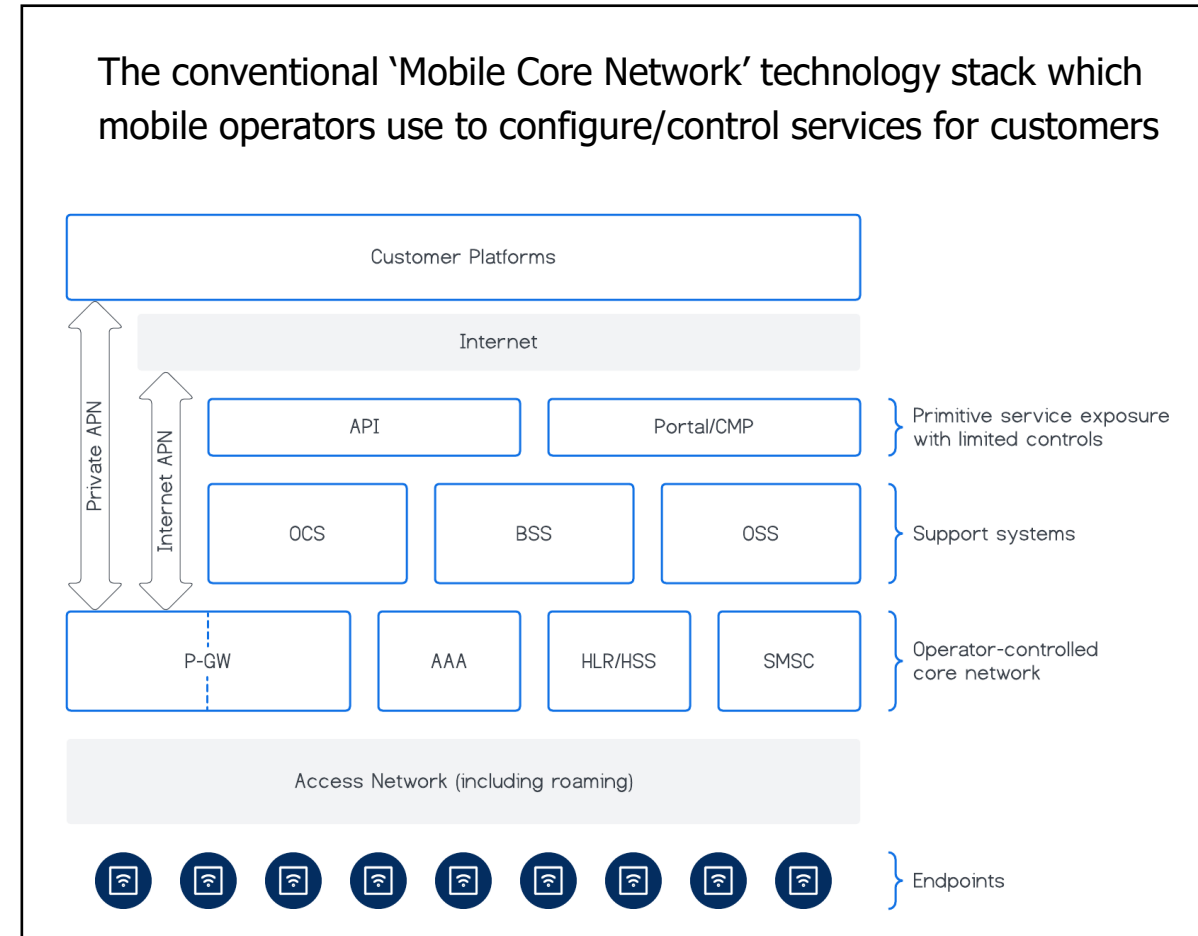
Technology	% 2033	Leading applications
Non-critical	31%	Personal Portable Electronics, White Goods, Micromobility, Dash Cams, Lawnmowers, Scales, Fitness Equipment, Pet Tracking,
Commercially important/required for normal activity	11%	Track & Trace (some), Livestock/Crop/ Aquaculture Management, Remote Diagnostics & Maintenance, Remote Process Control, Usage Based Insurance.
Commercially critical	4%	Track & Trace (some), Real Time Location Systems, Delivery Robots, Warehouse Management Systems, Fleet Management, Payment Terminals.
Critical National Infrastructure	27%	Smart Meters and Smart Grid (Electricity, Gas and Water), EV charging infrastructure, Generation, Public Transport, ATMs, Road Infrastructure.
Wellbeing critical	22%	Diabetes/Pulmonary/Coronary Heart Disease Monitoring, eCall, Tyre Pressure Monitoring, Assisted Living Tracking, Security Cameras/Alarms.
Life critical	4%	Emergency Services Personal Monitoring, Lone Worker Safety, Fire Alarms, Comprehensive Living Solutions.

- > By 2033, 69% of mobile IoT connections will be associated with 'critical' applications

Source: Transforma, 2022

But there is a problem...

- > Traditional telecoms technologies are great at supporting simple services like SMS, that work in the same way everywhere
- > Control over service configuration remains locked inside the mobile operators (and their 'core networks')
- > Customisation per customer costs time and money
- > However, as IoT becomes more business critical, IoT customers are demanding more visibility and control, so they tailor the mobile service to their bespoke needs (= **MASS CUSTOMISATION** not standardisation)



Our Mission

Put customers in **real-time / self-serve**
control of global mobile connectivity, so they
can build and secure connected services with
public-cloud style **agility** and **cost-efficiency**



A new type of mobile network

- > Simple - delivered by us as a service
- > IoT SIMs with global coverage and good data rates:
 - / Multi-network coverage in most countries
- > Fine-grained visibility and control over configuration
- > Management portal and full-featured API
- > Fast and low cost/risk for customers to get started...
...start with a single SIM and scale-up seamlessly



Remote Access Proxy

- > Remote, secure access to LoRa gateways via the SIM, anytime
- > Troubleshoot issues and configure hardware updates
- > Save time supporting customers and costly engineer field visits



Endpoint: 00 LoRaWAN SIM

Endpoints represent a remote device, typically containing a SIM card or eSIM and connecting to a cellular network.



- Details
- Data Usage
- Events
- Packet Capture
- Remote Access
- Key-Values

EDIT

ACTIONS

Name

00 LoRaWAN SIM

Tags

None

Reference

Active IMSI

234502104000022

VSlice

Nelius SIM2SIM

Endpoint Group

Nelius SIM2SIM

Routing Policy

Nelius SIM2SIM

Operator Policy

None

Event Map

None

Regional Policy

Automatic

Type

SIM/UICC

ICCID

8944520000000000127

Endpoint ID

fcae1611-5bd9-46f0-864e-77fef2a4a700

IP Address

100.64.0.2

Active MSISDN

882360025157119

Latest IMEI

86731006092949

Provision Status

Active

Network Status

Active

Latest RAT

EUTRAN WB (4G)

Locked IMEI

(Not locked)

First Activity

Jun 24, 2024, 8:03:58 AM

Latest Activity

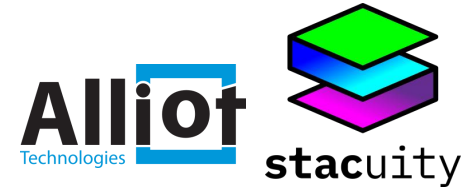
Oct 2, 2024, 10:22:54 AM

Remote Access Proxy



> [LightSwitch - YouTube](#)

Fantastic features: VSlices



- > Great way to enhance privacy and security for customers
- > Each customer can have their SIMs on separate virtual private networks (Vslices)
- > Fixed IP not required and just one APN required in all devices, even if Vslices need to change
- > Customers (or Alliot on their behalf) are in full control of IP addressing
- > Simple, real-time and self-serve



Regional Policy: Force via North America

Regional Policies are used to configure the region your endpoint connectivity enter our global mobile network



Details

Rules

	Country/Operator	Regional Gateway
	Default	North America
>	 Afghanistan	Inherit
>	 Åland Islands	Inherit
∨	 Albania	Inherit
	 T-Mobile 276/01	North America
	 Vodafone 276/02	North America
	 Eagle 276/03	North America
	 Plus 276/04	North America
>	 Algeria	Inherit
>	 American Samoa	Inherit
>	 Andorra	Inherit
>	 Angola	Inherit
>	 Anguilla	Inherit
>	 Antarctica	Inherit
>	 Antigua and Barbuda	Inherit
>	 Argentina	Inherit
>	 Armenia	Inherit
>	 Aruba	Inherit
>	 Australia	Inherit

Event notifications

- > See everything that is happening on the mobile network in real-time e.g. which network a device is attached to, where it is, what data has been consumed
- > Invaluable resource for troubleshooting
- > Depending on the use case, developers can use this intelligence to build more valuable solutions for customers
- > Complementary real-time packet tracing assists rapid diagnosis of device issues e.g. persistent connection retries

- <<
- Dashboard
- Inventory
- Endpoints
- Endpoint Groups
- Activate SIMs
- Configuration
- Event
- Event Viewer
- Event Maps
- Event Handlers
- Access Control
- Troubleshooting
- Account
- Developer API
- Support
- Legal
- Version 1.0.2103
- 10:25:35 UTC



Event Viewer

Endpoint events are triggered by the behaviour of Endpoints as they use the cellular network - such as starting new data sessions, or sending an SMS. Global events cover account related activity such as usage notifications. VSlice events include routing target and VPN notifications.

> Filter Events

ACTIONS

REFRESH

	Event Type	Timestamp (UTC)	Endpoint	Endpoint Group
>	 EndpointDataSessionExtended_v1	Oct 2, 2024, 10:23:08 AM	 eSIM - Mike iPad Pro	 Default
>	 EndpointDataSessionCreated_v1	Oct 2, 2024, 10:22:54 AM	 00 LoRaWAN SIM	 Nelius SIM2SIM
>	 EndpointNetworkStatusSetActive_v1	Oct 2, 2024, 10:22:54 AM	 00 LoRaWAN SIM	 Nelius SIM2SIM
>	 EndpointAuthenticated_v1	Oct 2, 2024, 10:22:53 AM	 00 LoRaWAN SIM	 Nelius SIM2SIM
>	 EndpointNetworkStatusSetidle_v1	Oct 2, 2024, 10:22:53 AM	 00 LoRaWAN SIM	 Nelius SIM2SIM
>	 EndpointDataSessionDeleted_v1	Oct 2, 2024, 10:22:53 AM	 00 LoRaWAN SIM	 Nelius SIM2SIM
>	 EndpointDataSessionExtended_v1	Oct 2, 2024, 10:19:57 AM	 Mike Production Test SIM (Dongle)	 Field Testing (MB)
>	 EndpointDataSessionExtended_v1	Oct 2, 2024, 10:19:08 AM	 eSIM - Mike S20+	 Default
>	 EndpointDataSessionCreated_v1	Oct 2, 2024, 10:15:14 AM	 00 LoRaWAN SIM	 Nelius SIM2SIM
>	 EndpointNetworkStatusSetActive_v1	Oct 2, 2024, 10:15:14 AM	 00 LoRaWAN SIM	 Nelius SIM2SIM

Manage Columns

How many: 10

LOAD MORE

S-D Data Routing

- > Software-Defined policy based around to data routing, under the customer's (or Alliot's control)
- > Control access to connected devices – enhance security
- > Dynamic control over where data from devices is sent, including private delivery to cloud applications



Routing Targets

Routing targets are external destinations (or sources) which exchange traffic with endpoints - such as the Internet or a VPN



+ ADD

ACTIONS

RESET COLUMNS

REFRESH

Name	Region	Redundancy Zone	Target Type	Status	Actions
 Atlas Oil Pipeline: AI Services VPN	Europe	Europe (Beta)	VPN	 Connecting	 
 Atlas Oil Pipeline: Internet	Europe	Europe Primary	Internet	 Connected	 
 Atlas Oil Pipe Monitoring Corporate VPN	Europe	Europe Primary	VPN	 Connected	 
 AWS VPN	Europe	Europe (Beta)	VPN	 VPN Peer Not Responding	 
 Azure VPN	Europe	Europe (Beta)	VPN	 VPN Peer Not Responding	 
 dc14-internet	North America	North America Primary	Internet	 Connected	 
 Default	Europe	Europe Primary	Internet	 Connected	 
 Default Global	Europe	Europe Primary	Internet	 Connected	 
 Engineering VPN	Europe	Europe (Beta)	VPN	 VPN Peer Not Responding	 
 house-wireguard-from-dc14	North America	North America Primary	Wireguard (Outbound)	 Connected	 

Manage Columns

Why is this good news for you?

- > Remote, secure access into any brand of LoRa gateway
- > Opportunity to build more personalised, private/secure, flexible and valuable service offerings

Get Started Today:

contact@alliot.co.uk | 01484 599544