



life.augmented

# SECURE, RESILIENT, FUTURE-PROOF GLOBAL IoT CONNECTIVITY

ST4SIM and Arkessa – Sales Information Pack

Δ R K E S S Δ

To place an order email: [ST4SIM@arkessa.com](mailto:ST4SIM@arkessa.com)

## SUPPLY CHAIN AND DISTRIBUTION FLEXIBILITY

## WHY eUICC?

### REPROGRAMMABLE SUBSCRIPTION

The SIM card can be updated over the air to allow it to join any network in any country, yet charges reflect local tariffs.

### SIMPLIFIED OPERATIONS AND LOGISTICS

A single stock-keeping unit (SKU) for all markets. Local MNO profile can be downloaded over the air at end destination.

### REMOVE MNO TIE-IN

No long-term commitment to MNO contract. If market dynamics drive change, MNO profiles can be swapped over the air.

### TIME TO MARKET

Products can be shipped with embedded SIMs before services and applications have been developed.

### FLEXIBILITY & FUTURE-PROOFING

Applications and updates can be sent to the SIM over the air, post-deployment. No need to recall devices or swap out SIMs for updates.

### SECURITY

Over-the-air updates of connectivity profiles mean that embedded SIMs can be deployed in more devices. Embedded SIMs are incompatible with unauthorised devices.

### INSURANCE

If a device goes out of coverage, moves country or an MNO stops providing services, bootstrap profile can be used to provide global roaming or connectivity to enable download of a new profile.

### SIMPLIFIED TESTING

Single SIM SKU reduces complexity and cost of regulatory approvals.

### RELIABILITY

SIMs that are embedded or soldered to the device are inherently more reliable than traditional removable SIMs.

200+ COUNTRIES 500+ NETWORKS => GLOBAL REACH

NO NEED  
TO RECALL  
DEVICES FOR  
UPDATES

# eUICC LIFECYCLE

Arkessa Global Roaming  
eUICC bootstrap profile

**Manufacture  
ST4SIM**

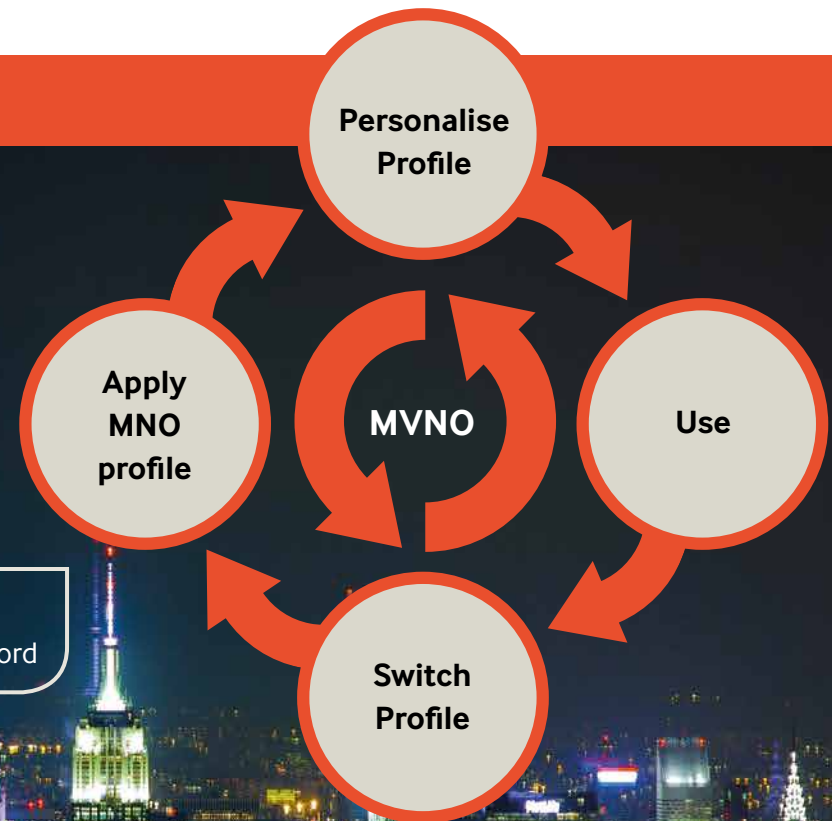
**Arkessa  
Bootstrap  
Profile**

**User/IP  
Network  
Credentials**

**Ship to  
end user**

## Secure Private Networking

Private IP address • APN • Username/password



MANUFACTURE | LOGISTICS | LOCALISATION | INSURANCE | OWNERSHIP CHANGE | ACTIVE SWITCHING



## Why eUICC?

Watch the video: [www.arkessa.com/euicc/](http://www.arkessa.com/euicc/)

# GLOBAL ENTERPRISE CONNECT (GEC)

## CONNECTIVITY MANAGEMENT PLATFORM

Manufacture  
anywhere



eUICC/eSIM  
from ST



Multi-operator on a  
single mobile core  
network

Global  
Enterprise  
Connect

ARKESSA



Connectivity  
management

Deploy  
anywhere



Subscription  
management

SIMPLIFIED | SCALABLE | SECURE

Request a demo: [ST4SIM@arkessa.com](mailto:ST4SIM@arkessa.com)



## GEC PLATFORM

Arkessa Connectivity Management platform can be accessed via a **secure web interface** or integrated into a preferred Enterprise platform via APIs. The platform provides connection **monitoring and control** and supports management of mobile data related costs.

Key features include:

- 2G/3G/4G global roaming bootstrap profile providing connectivity in 200+ countries
- 30 partner mobile networks mean local SIM profiles can be downloaded
- Powerful automated triggers to automate notifications and actions eliminating the need to monitor SIMs manually
  - Automate actions to prevent misuse such as linking a SIM ICCID to an IMEI and detecting when a SIM has moved countries
  - Tariff / data plan management including automatically triggering a change in data plan if SIM exceeds monthly/user defined data allowance
- Fully documented APIs allowing customers to integrate SIM management features with their existing platforms
- Full SIM lifecycle management from ordering to usage and state management to billing
- Detailed reports and usage statistics

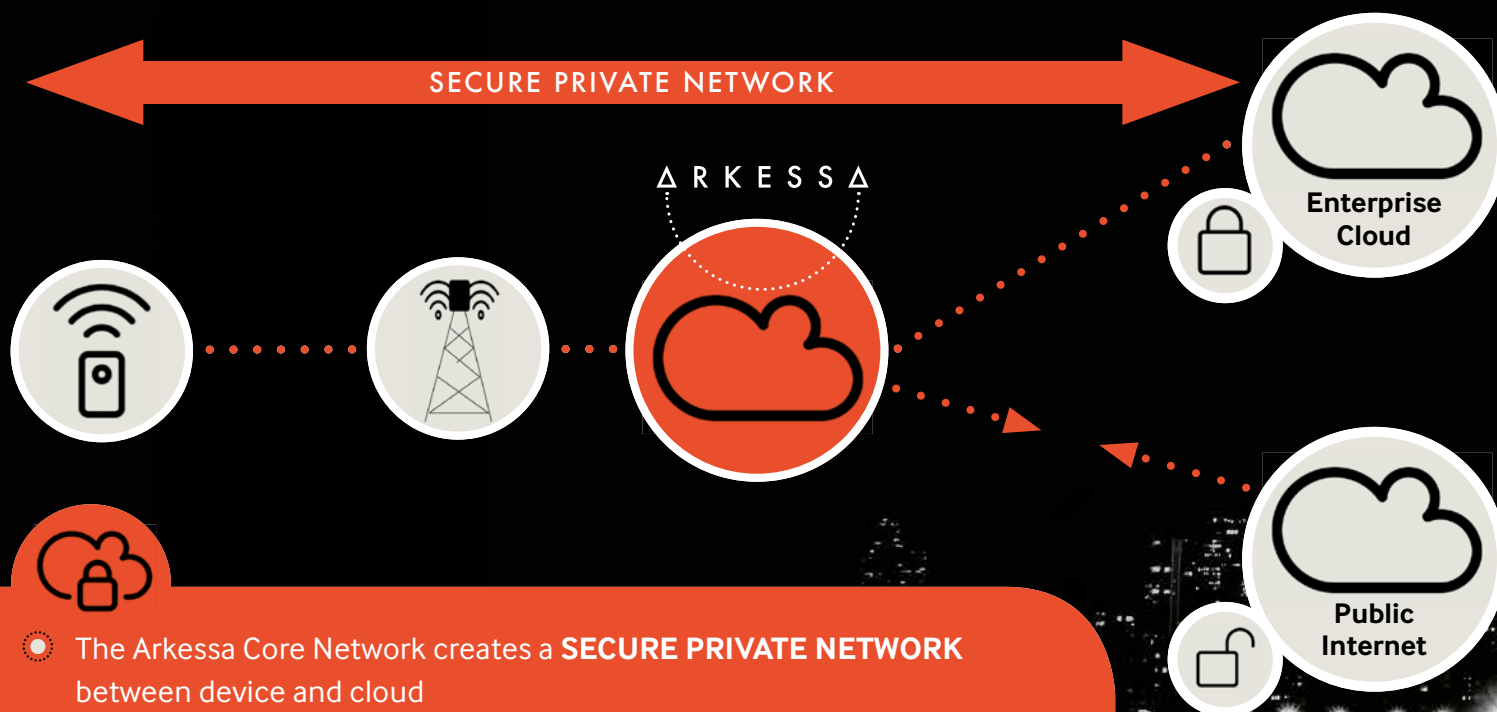


**Control costs**

**Deliver globally  
scalable solutions**

**Improve service  
reliability**

# WHY ARKESSA



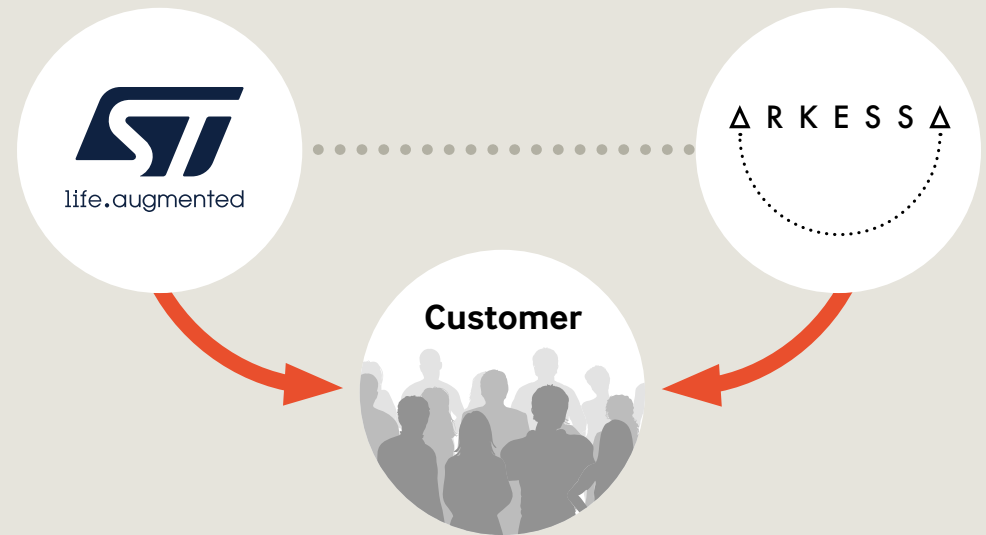
- The Arkessa Core Network creates a **SECURE PRIVATE NETWORK** between device and cloud
- Redundancy in the Arkessa Core Network ensures **HIGH AVAILABILITY**
- Public Internet access is **RESTRICTED** unless required by the application
- Firmware over the air updates are separated from monthly data traffic

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## ST4SIM & ARKESSA PARTNERSHIP

FLEXIBLE  
SCALABLE  
RELIABLE



FLEXIBLE & SCALABLE  
SOLUTIONS COMPATIBLE  
WITH ALL SIM / ESIM  
SOLUTIONS

HIGH-QUALITY, RELIABLE AND  
COMPETITIVE SOLUTION SUITABLE  
FOR INDUSTRIAL & AUTOMOTIVE  
ENVIRONMENTS

INTEROPERABILITY WITH  
LARGE PANEL OF PARTNERS  
(PLATFORM / MNO)

## TECHNICAL INFORMATION

### ST's eSIM solution strengthens its positioning in M2M & Automotive markets

#### CELLULAR CONNECTIVITY SECURE SOLUTION LEADER

- SIM / eSIM for consumer or IoT devices (GP / GSMA-certified)
- Proven field quality with more than 1.5 billion ST33 family cards deployed



#### RELIABILITY AND SECURITY IN AUTOMOTIVE & INDUSTRIAL MARKETS

- Automotive-Grade Qualification AEC-Q100 grade 2 (-40°C / +105°C)
- Industrial-Grade Qualification JEDEC (-40°C / +105°C)
- EAL5+ Common Criteria-Certified solutions



#### STATE-OF-THE-ART SECURE PRODUCT

- State-of-the-art, secure and flexible embedded OS (including Certified cryptographic algorithms)
- Java Card applet development (Extended OS features and added services)
- Standard involvement (GSMA / SIMalliance / Global Platform / 3GPP / ETSI / Car Connectivity Consortium)



## TECHNICAL INFORMATION

### SMART THINGS



**ST4SIM-S** SIM / eSIM

- Java Card OS / Global Platform compliant
- Configurable and customizable
- Trusted Partner providing connectivity
- Secure hardware ST32H480 & ST33G1M2
- Large choice of form factor:  
Card plug-in, DFN 4\*4.2, DFN 5\*6 (MFF2)

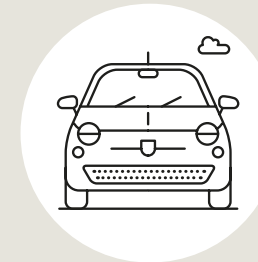
### SMART INDUSTRY



**ST4SIM-M** SIM / eSIM / eSIM GSMA

- Java Card OS / Global Platform compliant
- Scalable solution from SIM to eSIM GSMA
- Trusted Partner providing connectivity & Platforms
- Industrial grade (JEDEC JESD47)
- Secure hardware ST32F512-M, ST33G1M2M
- Large choice of Industrial form factor:  
Card plug-in, DFN 5\*6 (MFF2), WLCSP

### SMART DRIVING



**ST4SIM-A** eSIM / eSIM GSMA

- Java Card OS / Global Platform compliant
- Scalable solution from SIM to eSIM GSMA
- Trusted Partner providing connectivity & Platforms
- Automotive grade (AEC-Q100 Grade 2)
- Secure hardware ST33G1M2A
- Large choice of Automotive form factor:  
TSSOP20, DFN 5\*6 Wettable Flank (MFF2)