



# Revolutionize Your Connectivity with Entitlement Servers

Enhance your business operations, secure your mobile networks, and streamline subscription management with ES.





### **Entitlement Server. The Guardian of User Rights**

*As eSIM technology evolves, the role of Entitlement Servers has become critical in managing secure and efficient access control, particularly as wearable devices become a larger part of our everyday lives.*

*Entitlement Servers ensure that only authenticated users can access specific services and data, thereby safeguarding user privacy and enhancing the seamless operation of wearable devices in our connected world.*

*At Redtea Mobile, our state-of-the-art, in-house-developed Entitlement Server solution enables wearable device manufacturers and service providers to implement strong data protection measures while delivering an exceptional user experience.*



**Rajat Shukla**

Global Sales Director  
Redtea Mobile Pte. Ltd.



*eSIM technology is rapidly expanding beyond smartphones, finding its way into a diverse array of consumer devices including smartwatches, tablets, and other connected gadgets. As this proliferation continues, the importance of efficient orchestration and service management becomes paramount.*

*Entitlement servers empower service providers to offer seamless eSIM experiences, automating downloads, activations, and profile transfers, driving eSIM adoption by eliminating barriers.*

*Service providers can now seamlessly support and monetize companion devices, tapping into expanded market opportunities and enhancing customer loyalty through a more integrated, user-friendly ecosystem of connected products.*



**Mohit Agarwal**

Research Director  
Counterpoint

# eSIM Landscape Grows With New Use Cases And Monetization Opportunities

eSIM penetration in smartphones, smartwatches, tablets, and laptops is rising, with more device makers offering eSIM-enabled devices. **OneNumber** (Multi-SIM) sharing and **Quick eSIM transfer** are gaining popularity.

Entitlement Servers ensure consumers access necessary features through carriers by orchestrating workflows to provision these features from the operator system to devices.

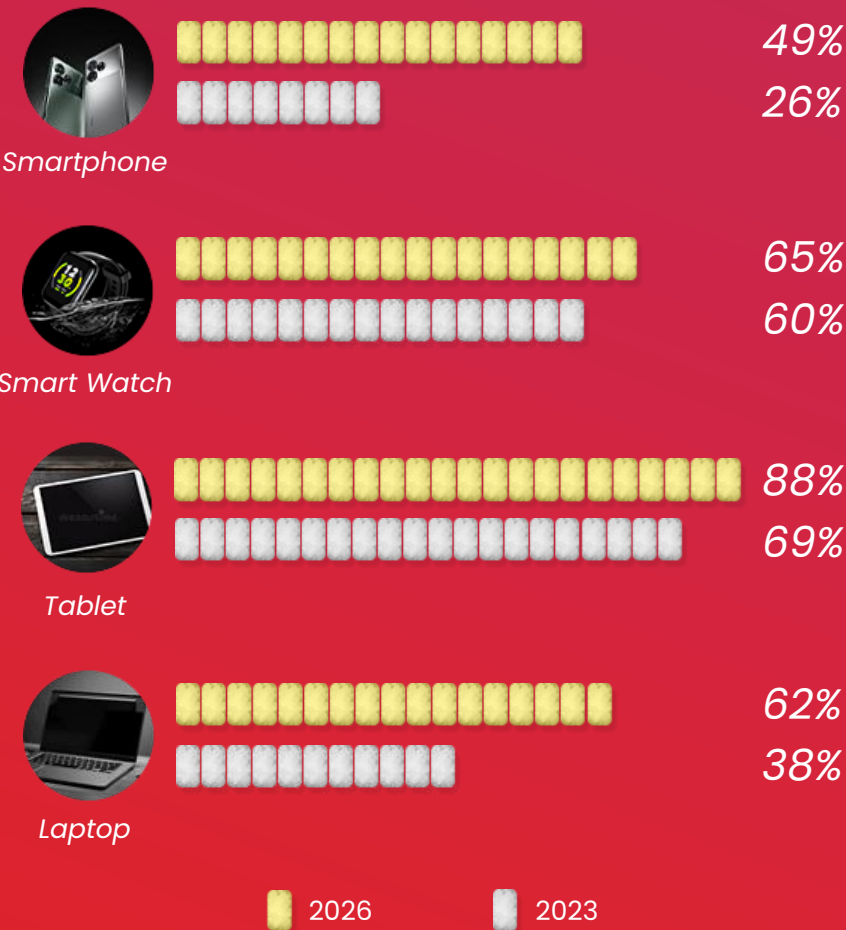
## Key Benefits of Entitlement Server:

- Seamless onboarding of companion devices with eSIM connection.
- Operators can digitize linking, ordering, and provisioning of companion devices.
- ES enables operators to unlock new revenue streams, lower operational costs, and fully digitize service ordering.
- Users can seamlessly self-serve and order services without visiting a branch, enhancing the overall user experience.
- ES identifies and authenticates device entitlements alongside safeguarding privacy and integrity.

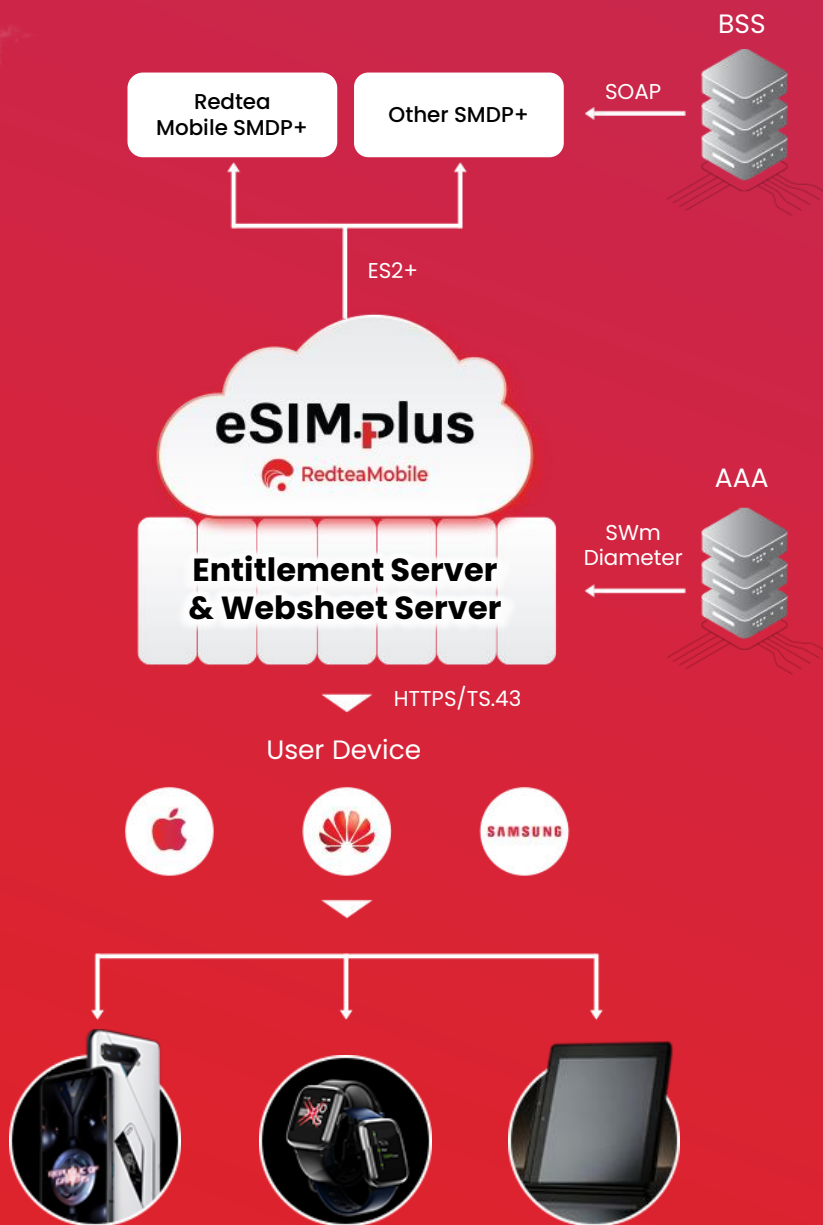
## Operator Services managed by Entitlement Server



# eSIM Penetration across consumer devices in 2023 vs 2026



eSIM Device Forecast and Market Outlook H1 2024, Counterpoint Research



## What is Redtea Mobile's Terminal Service Entitlement TSE?

- Redtea Mobile offers **Entitlement Server (ES)** and **Websheet Server (WS)**, together form **Terminal Service Entitlement (TSE)**.
- During device onboarding, the Entitlement Server collaborates with a **Websheet** to facilitate activation, directly interacting with the end user.
- Websheets, hosted by mobile operators, display information on devices and gather subscriber data, ensuring a seamless onboarding and entitlement process.
- TSE easily integrates with core network elements like **BSS**, **AAA**, and **SMDP+**.
- TSE comes pre-integrated with Redtea Mobile's GSMA Certified SMDP+.
- Mobile operators have the option to deploy on their private cloud or opt for the ES-As-A-Service model.





## Why Redtea's Terminal Service Entitlements?



Developed in-house, offers more control over features.



Deployable on private/public cloud (ESaaS); tailored for MNOs/MVNOs.



Experience collaborating with Tier 1, 2, and 3 MNOs, as well as full MVNOs.



Supports over 50+ million terminals and a maximum of 400+ million terminals on a single ES/WS deployment.



Easily integrated with external systems and add modules developed by third parties.



Provides multi-level redundancy and geo-redundancy with system reliability up to 99.999%.



Compliant with Apple's ES Specification and GSMA's TS.43 Specification.



It offers better monetization opportunities by bundling premium features, tiered service models.








Centralizes authentication and authorization process reducing operational complexities.










## Challenges in adopting Entitlement Server

-  High Deployment Cost
-  Integration with Existing Systems
-  Adding New Features
-  Deployment Options
-  Future Proofing Solution

## Solution by Redtea Mobile

-  Flexible, commitment-free solutions tailored to operators' budgets and needs.
-  Redtea Mobile's ES integrates with network infrastructure via standard protocols such as Diameter, SOAP based APIs.
-  Redtea Mobile uniquely offers in-house ES solutions, this offers mobile operators to pick and choose the ES feature as and when required.
-  Redtea Mobile's TSE offers flexible private cloud or managed service (ESaaS) deployment and solutions for Mobile Operators.
-  Redtea Mobile's ES offers ready-to-use features through OEM partnerships and GSMA membership.



## TSE Supported Use Cases

### Apple iOS



Phone Number  
Registration for iMessage  
and Facetime



5G  
Entitlement



VoLTE



VoWi-Fi



Data Plan  
Query



OneNumber  
(Multi-Sim)



eSIM Transfer



iPad  
Entitlement



Apple Watch  
Entitlement

### GSMA TS.43



5G  
Entitlement



VoLTE



VoWi-Fi



Data Plan  
Query



OneNumber  
(Multi-Sim)



eSIM Transfer

### Huawei



OneNumber (Multi-Sim)

### OPPO



OneNumber (Multi-Sim)







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*Redtea Mobile's Entitlement Server (ES), TSE, has been a game changer for our eSIM operations. It simplifies activation, offers robust security, and scales effortlessly. Seamless eSIM transfer or enabling One Number for wearables like smartwatches is now a breeze.*

*We particularly value the flexibility of deployment options and their deep domain knowledge. As a Tier-1 MNO, we highly recommend Redtea Mobile's in-house developed ES solution for anyone looking to thrive in the eSIM solution.*

**Director**

**Core Network Planning & Design**  
**STC**






*Redtea Mobile is a pioneer in eSIM technology and device connectivity, providing comprehensive eSIM solutions for consumer and IoT devices, with over 500 million devices shipped across 200+ countries.*

*It introduced "Connectivity as a Service (CaaS)" and now offer CaaS 2.0 with eSIM orchestration platforms. The services include "Provisioning-as-a-Service," featuring SM-DP+ and Entitlement Server solutions for seamless eSIM management.*

*Redtea Mobile also provides "xSIM-as-a-Service" with its eSIM OS, supporting enterprise IoT solutions. Redtea Mobile aims to simplify communications infrastructure, offering flexible, reliable, and scalable connectivity solutions.*

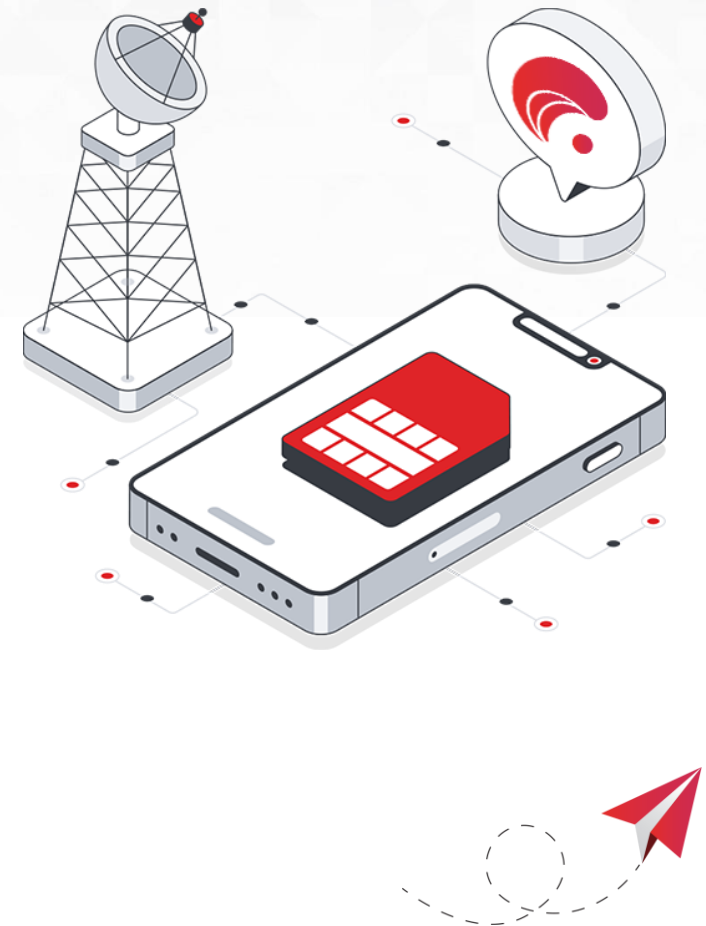
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# Thank You