Global Data Platform description

Global data platform is state of the art technological solution which enables remote SIM card provisioning to the eSIM enabled devices**.** Its main usage scenario is for MOBILE DATA Access at low rates via eSIM MIFI enabled devices for customers who can not afford to pay excess Mobile data roaming fees. The whole concept was designed around the idea for Mobile network operators to bring back certain amount of outbound data roaming revenues that were lost due to excessive pricing policies and general tendency of a subscribers to source the local SIM card in the country of travel destination (which is de facto a churn for the home MNO).

Global data platform consists of several key components which are ensuring the Telco grade operational properties of the whole system:

1. Back end platform (Rating and Billing, Remote SIM provisioning, CRM , Monitoring, Wholesales Data purchase management, etc…)
2. SIM BANK layer, where numerous SIM cards from all over the world are being securely stored and remotely provisioned to eSIM enabled devices.
3. End customer eSIM enabled Device : MIFI G1, G2, G3, U2 or eSIM Phone

SIM BANK Description

SIMBANK S1 is state of the art technology appliance, which is able to Store, Manage, Read and provision the SIM cards remotely to the eSIM enabled devices.

SIMBANK S1 can store 192 SIM cards and it supports SIM card hot swapping

Combined with SIM Server it is the heart of the Global Data Platform

SIMBANK S1 is usually stored in Telecom Operator Data Center and it requires IP connectivity to the SIM Server and the rest of the Back End of the Global Data Platform in order to function

Telco grade Management and Monitoring systems of Global Data Platform, are able to: Monitor SIM card status, Monitor health of unlimited number of SIMBANK S1 devices, Report alarm and malfunction.

Technical features:

1. Self-adaptive to SIM standard GSM11.11 3.3V/1.8V, supports SIM card hot swapping
2. Supports capacity expansion, maximum capacity is 192 per S1 device
3. Network redundancy: dual 10/100Mb Ethernet interface
4. Power supply redundancy: dual power supply
5. Remote maintenance: supports remote device management, status monitor and software upgrade
6. Network security:X.509 digital certification, RAS/AES data encryption to provide data security and integrity in storage and transforming.

Technical Specification

Dimensions		Size W*H*D	482.6 *250*44.5mm
		Weight kg	3.0
Hardware	Voltage & Power	Voltage	12V-24V, >25W
		SIM Voltage	3V/1.8V self-adaption
	Status indication	Status indication LEDs	1,5 Front Panel LEDs
			PWR/RUN/ERR/LINK1/LINK2 2
			192 SIM Status indication LEDs
	Interface	SIM	192 PUSH-PUSH Normal SIMs
		USB	Normal USB (Type A)
		RJ45	Dual-RJ45, self-adaption
		DC Power:RCA5.5	Dual-Power Supply, 12-24V,
	Sensor	Temperature Sensor	Detecting Temperature of Environment
	Network Bandwidth Requirement		~100kbps
Environment	Temperature Range		0-45°C
	Store Temperature Range		-40-70°C
	Relative humidity		5%RH~95%RH
	Waterproof & Dustproof		IP40
	Heat dissipation		Air-Cooled

	Lightningproof		Inducing-lightning 6KV
Certification	China	GB，CCC	
	Europe	CE EN55022、EN55024、EN60950-1	
	America	FCC Part15B Class A	
	Australia	RCM CISPR22，AS/NZS 60950-1	
	Japan	VCCI，V-3	