IPLOOK NETWORKS CO., LTD.

2023.08

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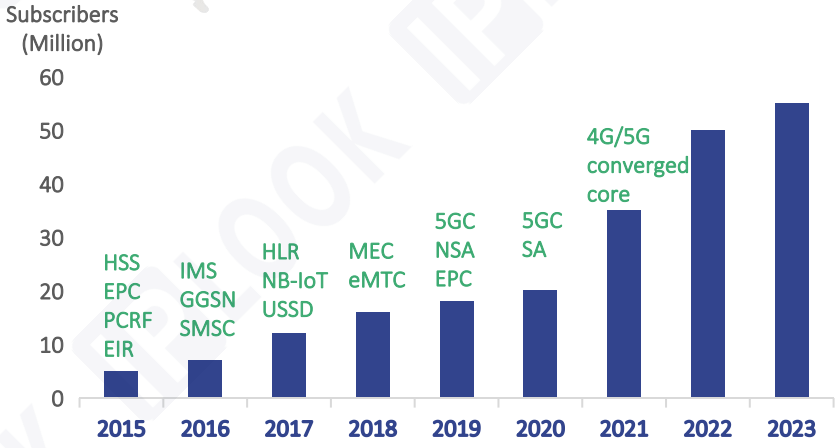
01

Company profile

Brief Introduction

- **IPLOOK**, a global leader of **end-to-end mobile core solutions**
- **Over 12 years** professional experience in telecom
- **200+ employees** with over 70% are R&D or technical engineers
- Full stack of **3G/4G/5G/IMS core networks**
- Customized solutions for **MNO, WISP, MVNO, Private Networks**
- **50M+** subscribers covering over 50 countries
- **500+** commercial deployments globally in Africa, West Europe, North America, Southeast Asia, Middle East etc.
- **24×7 hotline and online support**

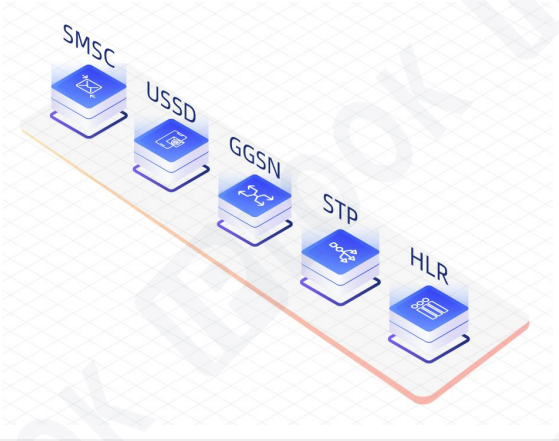


02

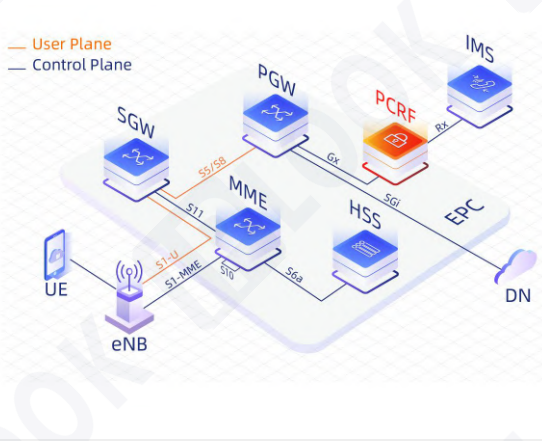
Product lines

Product lines

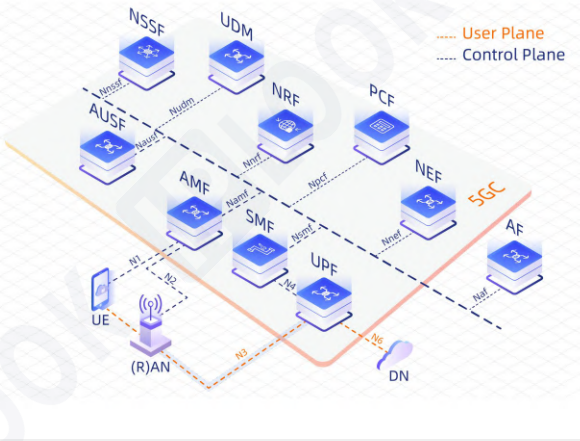
3G Core
HLR/GGSN/STP/SMSC/USSD Gateway



4G Core(EPC)
MME/HSS/SGW/PGW/PCRF/DRA



5G Core(5GC)
AMF/UDM/AUSF/UPF/SMF/PCF/NEF/NRF/
NSSF/LMF/N3IWF



NFV deployment

Support X86 server & Cloud

High availability
Easy scaling

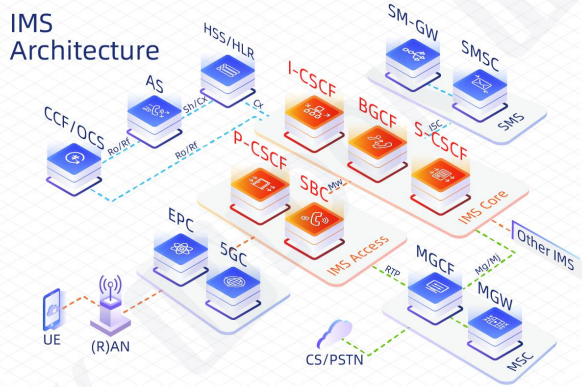
Interop with multi-vendor eNodeBs

Converged 3G/4G/5G core network

Product lines

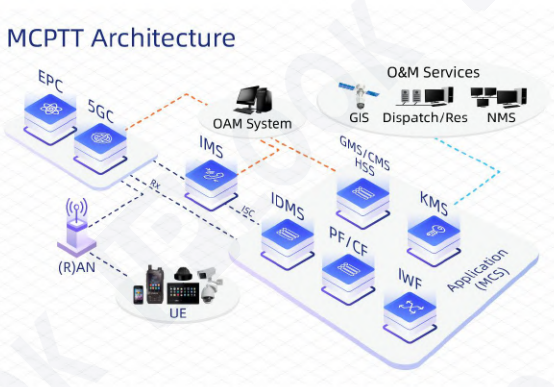
IMS(VoLTE/VoNR)

AS, I/S/P-CSCF, BGCF, SBC/MGW



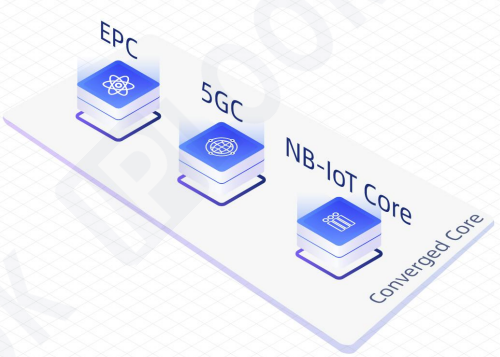
MCX System

Setup over IMS, converged dispatch functions



NB-IoT Core

For smart cities, like metering, sharing bicycle, asset's location etc.



- NFV deployment
- Support X86 server & Cloud
- High availability Easy scaling
- Interop with multi-vendor eNodeBs
- Easy to integrate

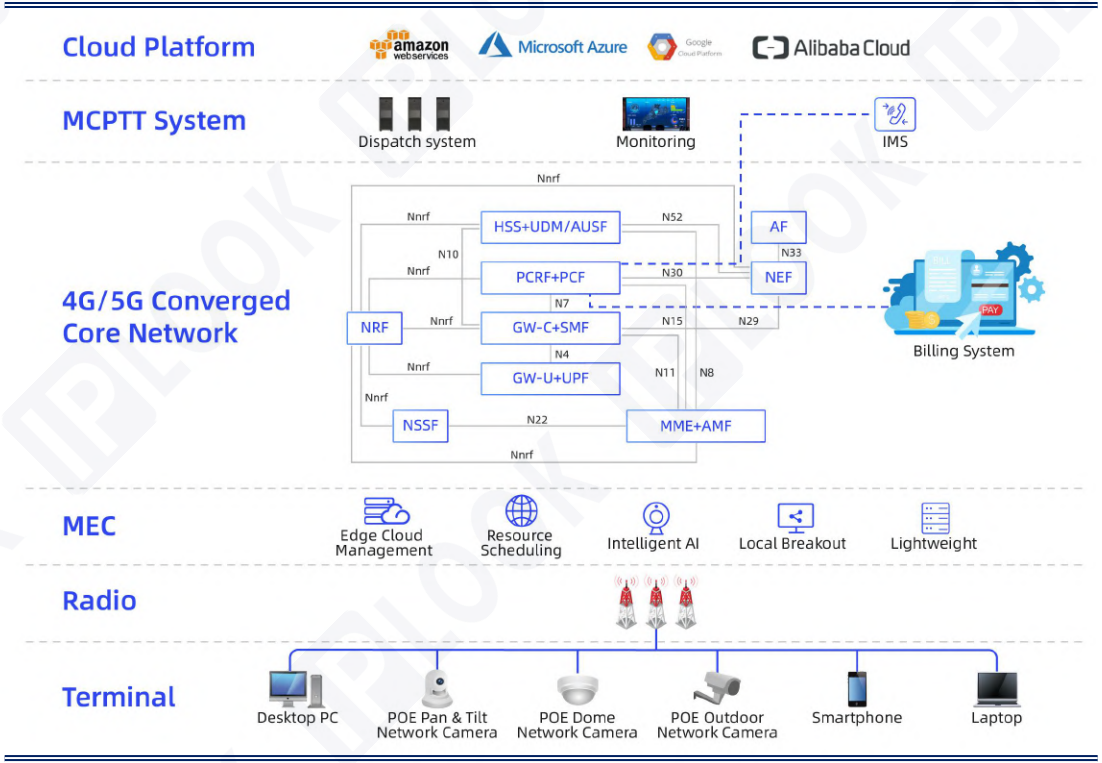
03

Solutions

Solutions 1

End-to-End 4G/5G Converged Solution

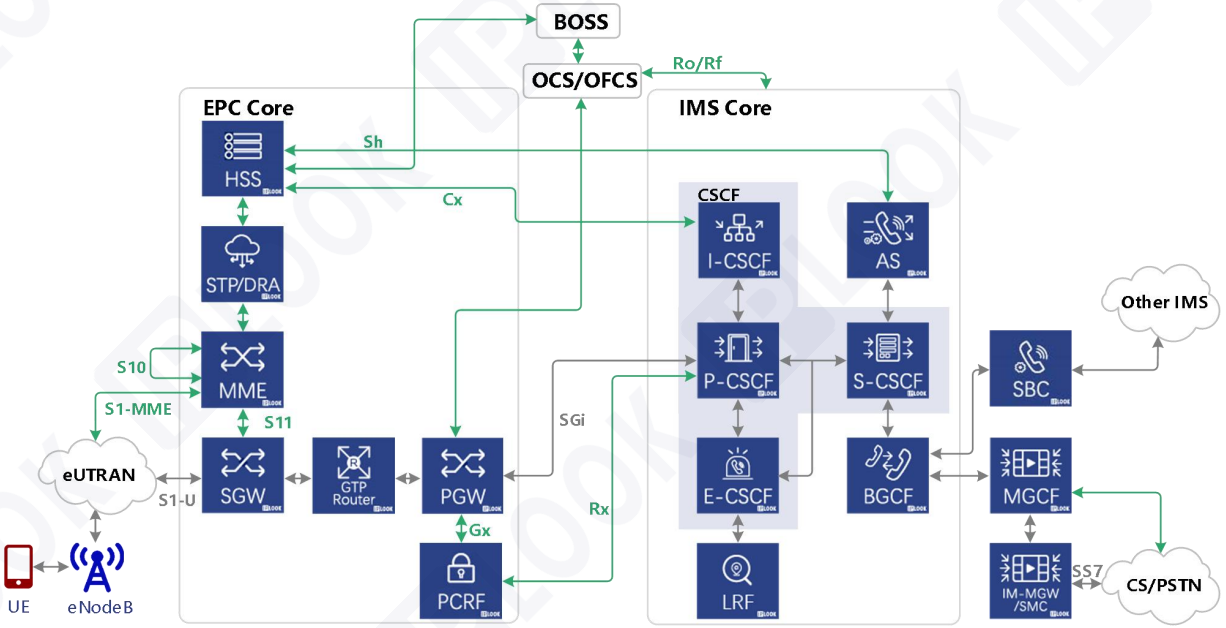
- A Turn-Key 4G/5G Wireless Solution: Radios + Core Network(4G/5G Data + VoLTE or VoNR) + BSS/OSS Systems + CPEs
- Fully virtualized EPC/5GC on X86 COTS hardware and Cloud
- Multi-vendor radios supported, 3rd Party application supported
- Processing scalability supporting 1,000 to 1,000,000 subscribers



Solutions 2

Solution for MNO

- Replace existing 2G&3G sites by 4G sites.
- Upgrade the traditional 2G&3G core network to NFV core network.
- Upgrade the OSS/BSS to new system with OCS.
- Our new core network is 5G ready platform. It would be upgraded to support 5G NR smoothly.



Solutions 3

Solution for MVNO

IPLOOK enables MVNOs to become **Light MVNO**(with HSS/HLR,BOSS), **Full MVNO**(with more like, STP, DRA, GTP- Router, PGW/GGSN, PCRF, SMSC/USSD) and **MOCN operator**(with more like MME, SGW, SGSN, MSC).

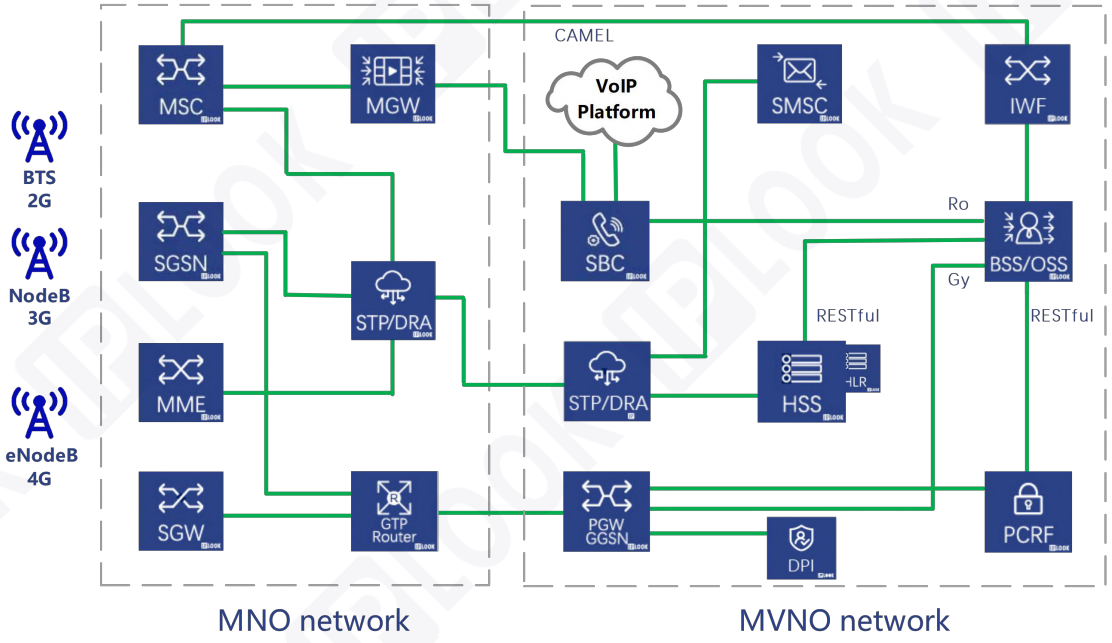
Application scenario:

International roaming for tourists & M2M

Key benefits:

Field-proven proposal for MVNO

Lower CAPEX & OPEX



Solutions 4

Solution for WISP

Fixed wireless access over LTE for data service instead of FTTX, LAN or ADSL.

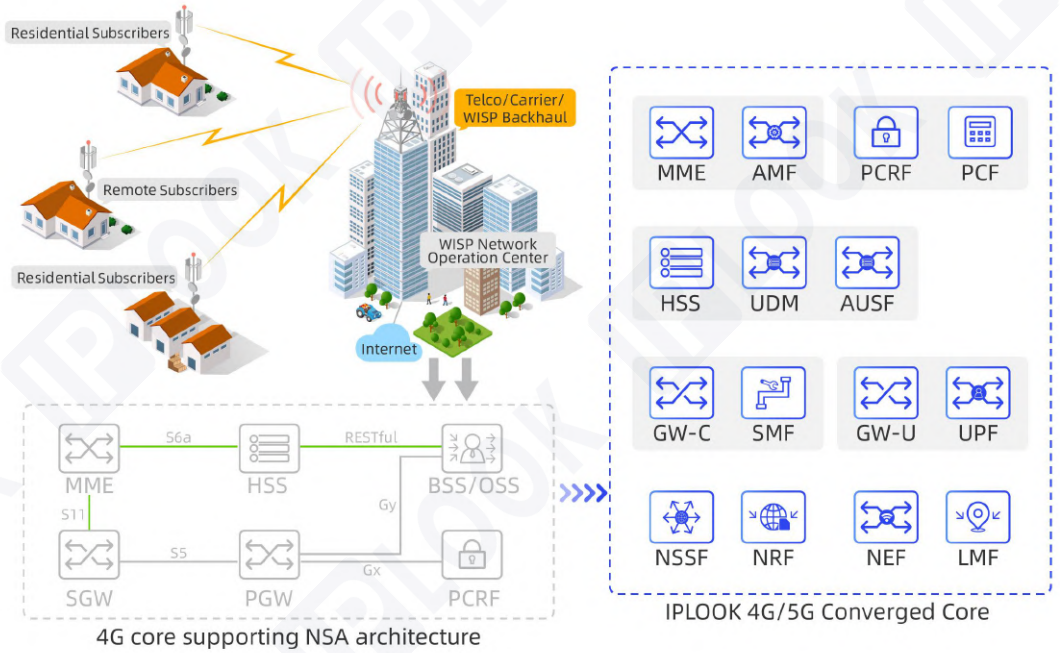
Application scenario:

Remote country; Home internet services

Key benefits:

Multi-vendor's eNodeBs supported

Multi charging mode: RADIUS, OCS, CG



Solutions 5

Solution for Private Networks

Application scenario:

Private network for mines communication, police communication, power grid etc.

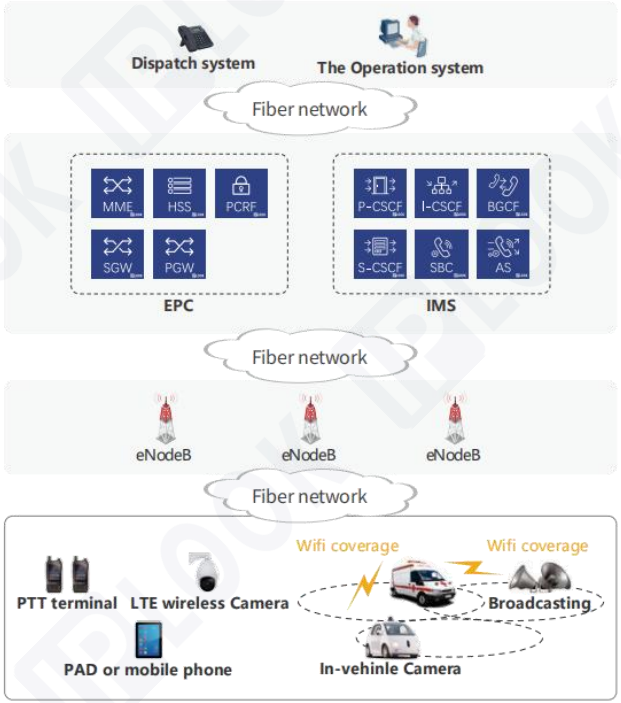
Services:

Data, VoLTE, VoNR, MCPTT, SMS

Key benefits:

Rich industrial network experiences

Better customization capability



The end-to-end solution for Police or Mining

Solutions 6

Solution for islands

Application scenario:

LTE network designed for islands

Services:

Data, VoLTE, CSFB, SMS

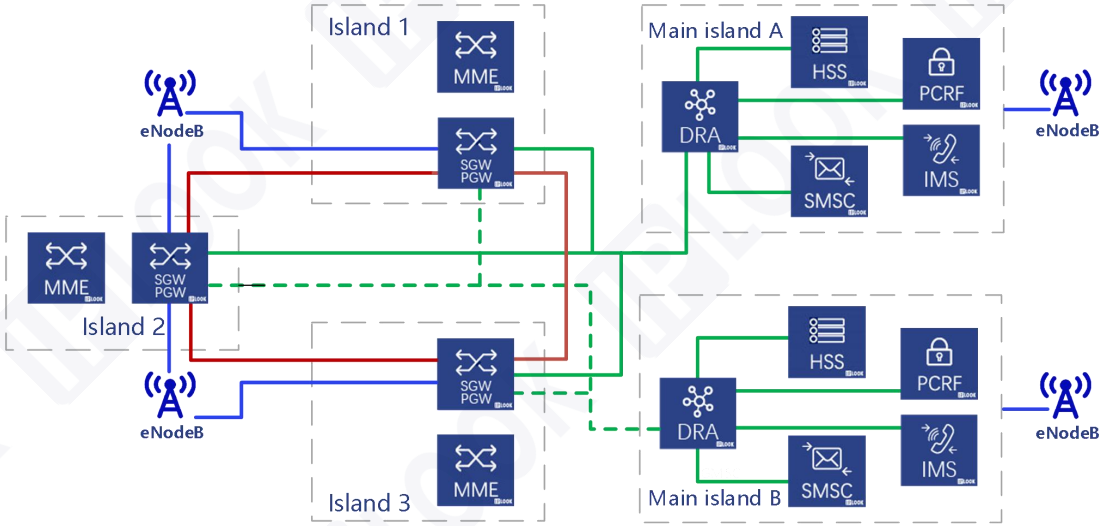
Key benefits:

High-quality network services with long latency transmission environment

Swift rollout of the new-built 4G network

1+1 standby mode

Resource sharing



LTE deployment designed for islands

Solutions 7

Solution for NB-IoT

Application scenario:

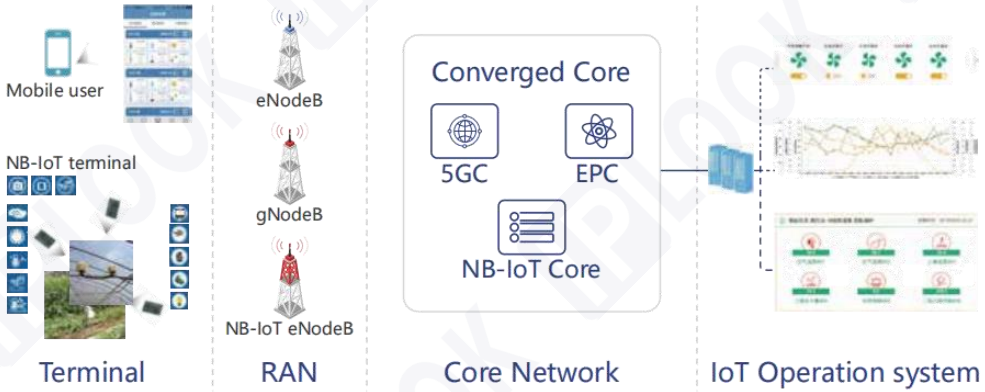
The NB-IoT core for both operator and private networks. With the solution, the IoT terminals or sensors can be some power saving NB-IoT or eMTC devices.

Services:

Small amount data transer

Key benefits:

CAPEX-saving solution with lite eNB and core converged LTE and IoT core



NB-IoT Solution

04

Advantages

Certificates

- 4G/5G full **core network** elements **access certificate** in China
- **CMMI-3** and **ISO9001** certificates
- 80+ software copyrights and 200+ patents in core network field
- An official member of **3GPP, GSMA, GSA, CCA, CCSA** organization

Advantages

Worldwide use cases

IPLOOK has accumulated **500+ commercial deployment** in the last 10 years. With **open interfaces**, its 3GPP- compliant 3G/4G/5G core network could be easily integrated with legacy network.

The full stack core network

It has 3G, 4G and 5G full core network to ensure a **smooth upgrade**. With its open architecture, IPLOOK's core network supports multi-vendor bases stations and CPEs.

Tailor-made solution

IPLOOK provides all size scalable networks with **pay-as-you-go model** to satisfy various requirements of operators and enterprises. Onsite services and 7*24 support are included.

Save CAPEX & OPEX

With the compact deployment and virtualized deployment, our **NFV-based** core network software is scalable, flexible, easy to deploy and manage at a low cost.

Roadmap

R4.2

5GS/EPS interworking with N26
EPS Fallback
5GS/EPS Handover
OMC Release
Cloud 5GS Integration
LEO Core
- GMS Trail

NEs
- MME/AMF
- HLR/HSS/UDM/AUSF
- EIR
- SGW/PGW/GGSN
- PCRF/PCF
- PGW_C/SMF
- PGW_U/UPF
- NRF
- NSSF
- IMS
- SBC

2021

R5.2-R5.6

5GS NEs
- UDR
- SEPP Release
- NEF Release
- UPF 100G Platform

IMS 5G Compliance
- N5 Interface
- Performance Enhancement

EPS Enhancement
- xGW 40G Platform
- GTP-Router 40G Platform

ARM Platform Adaption
Fully CUPS Architecture
LEO Core
- GMS Release

R17 Feature Compliance
Misc
- MCPTT Trial

Simulation Platform
Location Service Function
NWDAF

2022

R6.7

- TSN Release
- R17 Feature Compliance
- V2X Trial
- 5GC+AI Advanced Research

Space-Integrated-Ground Network Core
- GMS Enhancement

Adaptation to Cloud Platform
- VMware Cloud Platform
- AWS Cloud Platform
- ALI Cloud Platform
- General OpenStack Cloud platform

100Gbps Platform
UDR Policy Integrating

2023

R7.4

- TSN release
- V2X release
- 5G-Advanced LEO commercial

5GS
- Enhanced Network Slicing Functionality
- 5GC Location Services (Phase 3)
- MissionCritical and emergencies

IMS
- Implement session persistence and recovery for SIP sessions

LEO Core
More flexible scenarios and models
- Edge computing
- Intelligence Algorithms
- More algorithm interfaces

2024~2025

R8.2

5GS
- Support for satellite access (Phase 3)
- Roaming Value-Added Services
- Support for Upper layer traffic steering, switching and split over dual 3GPP access

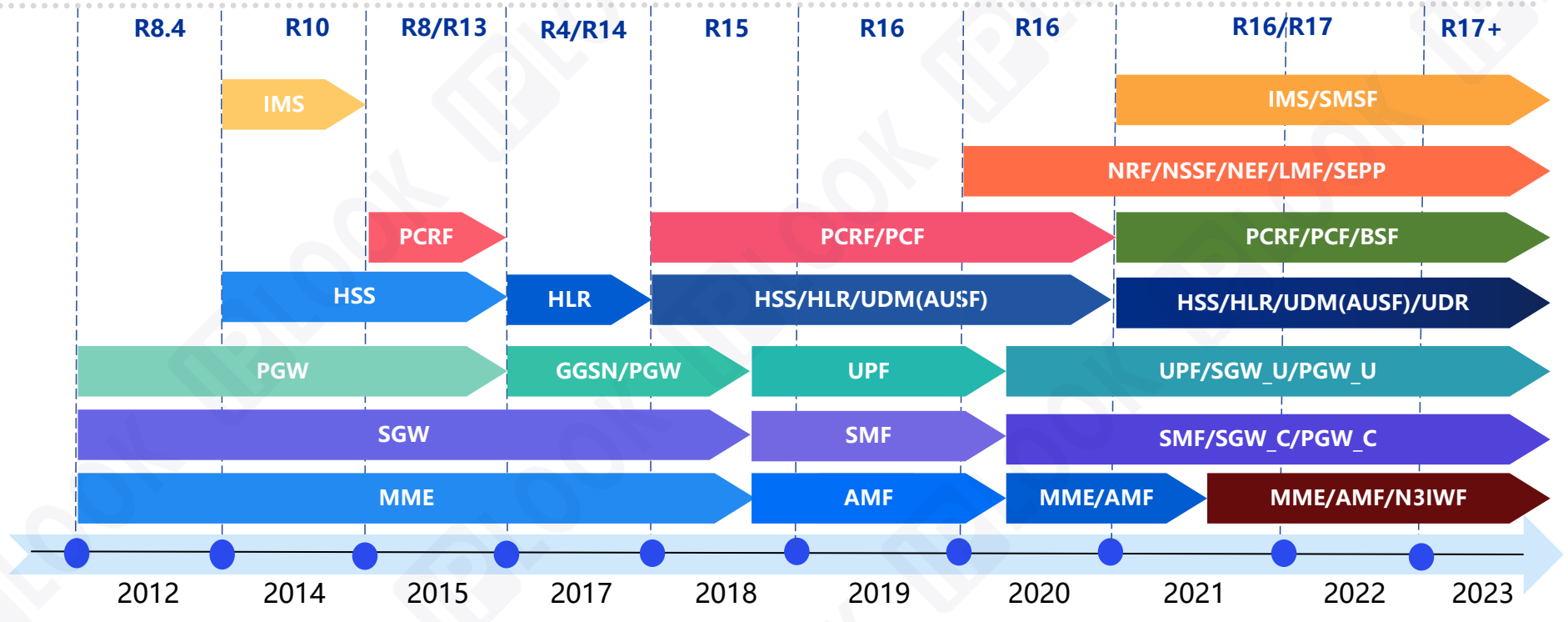
IMS
- e2 Interface to the TISPAN NASS
- OMR/OMR
- Remote Activation of Call Forwarding

PLT
- NFV Acceleration Management
- SNMP Alarm Interface
- Software Reliability
- Data & System Security

2026~2028

Product Release

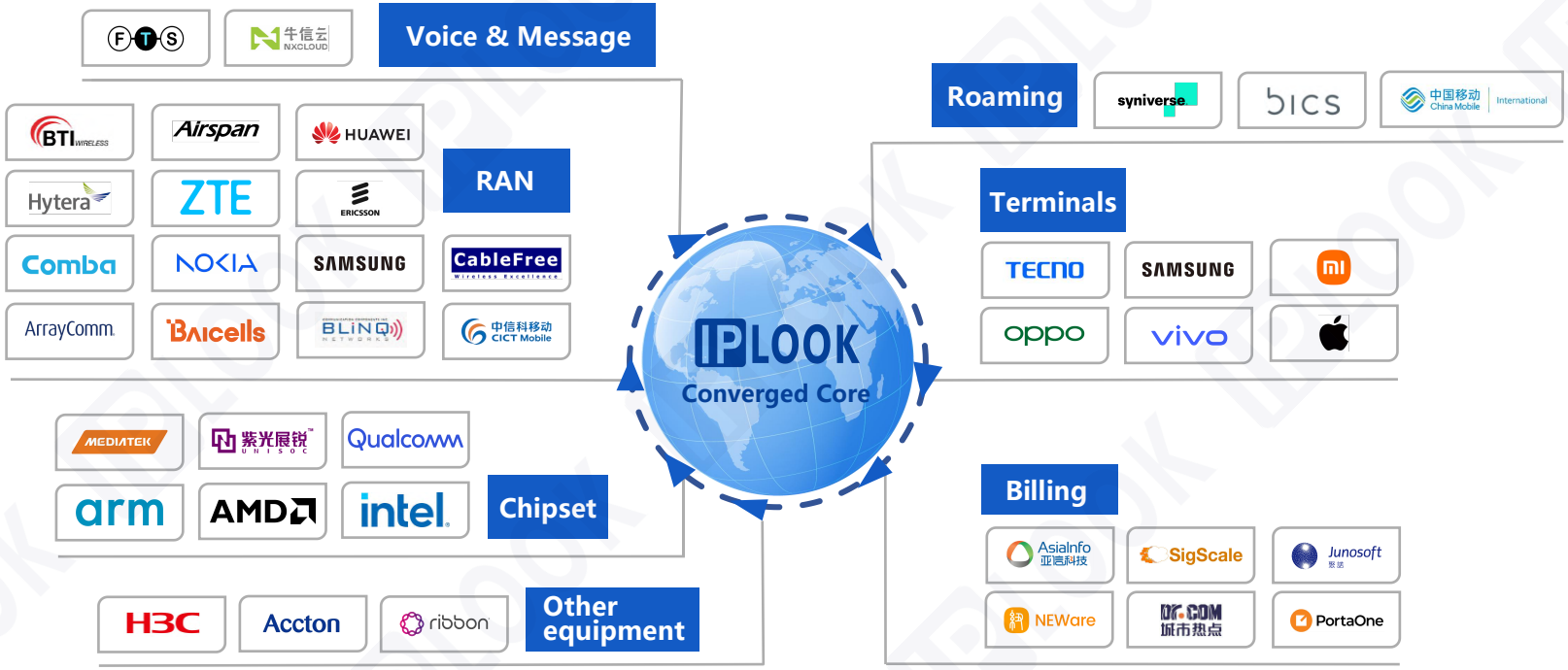
3GPP Release



Clients


BABILON-MOBILE
SuperNet
DailyTelecom
ONDO
Hytera
YELLOW
K-NET
SCT
SPACEWIDE
MB 博元訊息 Multi-byte Info
UNITEL
NPN
The Best E-Channel in SG
yes seatel
Acclinks
CONNECT
telesol
just a touch
TELETOK
ALCON
Congo Telecom

Industry Ecosystem



THANK YOU

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