

- 01 Company profile
- **02** Product lines
- 03 Solutions
- **04** Advantages





### **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









### **Product lines**



#### 3G Core

HLR/GGSN/STP/SMSC/USSD Gateway

### 4G Core(EPC)

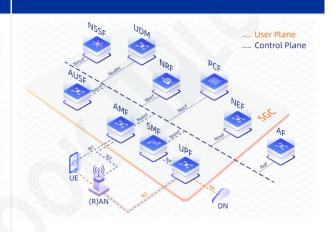
MME/HSS/SGW/PGW/PCRF/DRA

### 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 multivendor eNodeBs



Converged 3G/4G/5G core network

### **Product lines**



### IMS(VoLTE/VoNR)

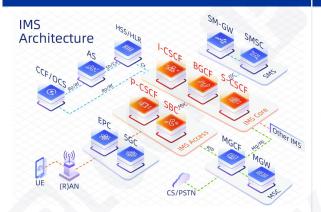
AS, I/S/P-CSCF, BGCF, SBC/MGW

### **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 multivendor eNodeBs



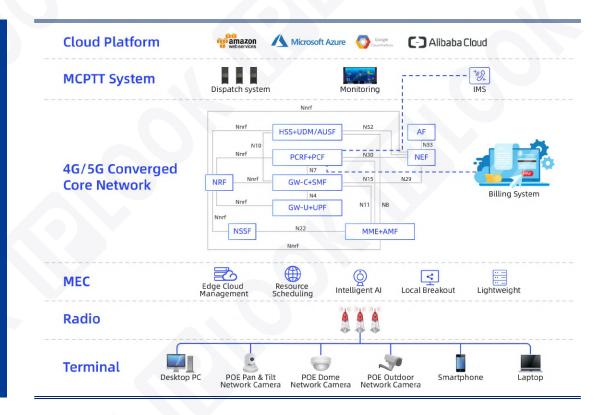
Easy to integrate





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

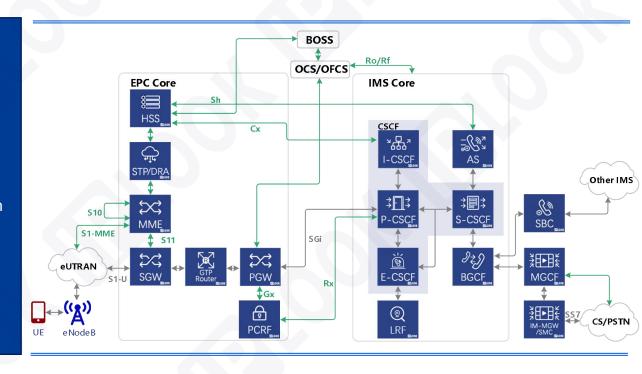
- A Turn-Key 4G/5G Wireless Solution:
   Radios + Core Network(4G/5G Data +
   VoLTE or VoNR) + BSS/OSS Systems +
   CPEs
- ► Fully virtualized EPC/5GC on X86 COTS hardware and Cloud
- Multi-vendor radios supported, 3rd Party application supported
- Processing scalability supporting 1,000 to 1,000,000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





#### **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.





#### **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).

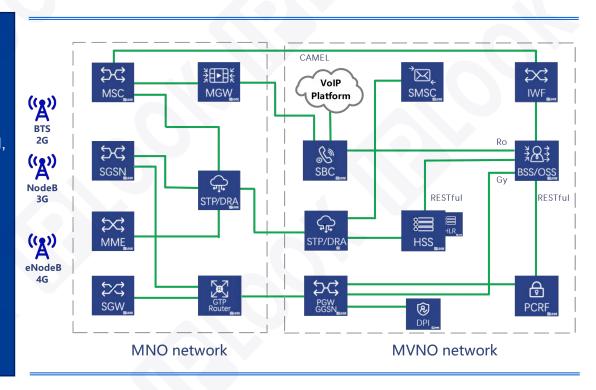
### **Application scenario:**

International roaming for tourists & M2M

### **Key benefits:**

Field-proven proposal for MVNO

Lower CAPEX & OPEX





#### **Solution for WISP**

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

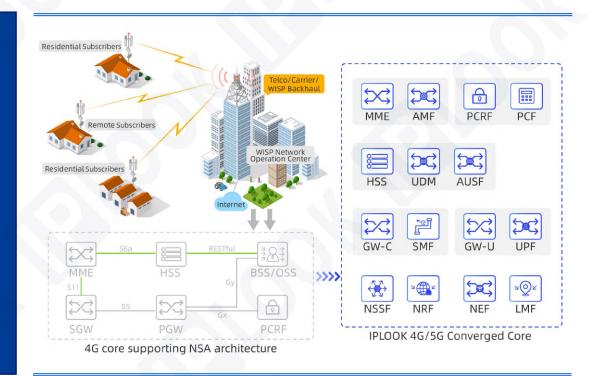
### **Application scenario:**

Remote country; Home internet services

### **Key benefits:**

Multi-vendor's eNodeBs supported

Multi charging mode: RADIUS, OCS, CG





#### **Solution for Private Networks**

#### **Application scenario:**

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

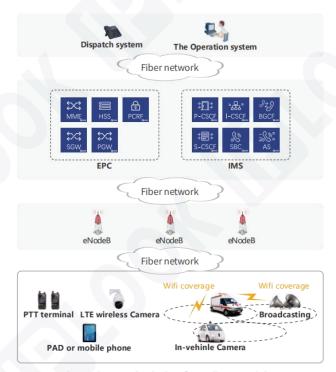
#### Services:

Data, VolTE, VoNR, MCPTT, SMS

#### **Key benefits:**

Rich industrial network experiences

Better customization capability



The end-to-end solution for Police or Mining



#### Solution for islands

### **Application scenario:**

LTE network designed for islands

#### Services:

Data, VoLTE, CSFB, SMS

### **Key benefits:**

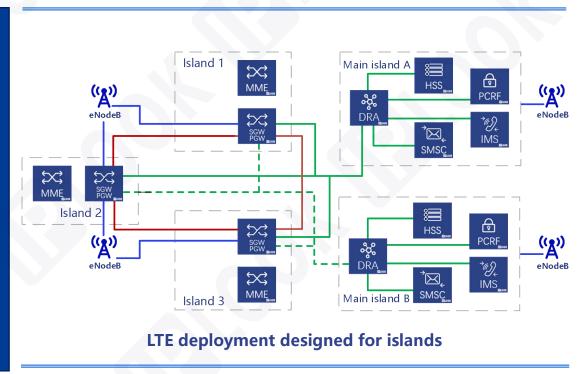
High-quality network services with long latency

transmission environment

Swift rollout of the new-built 4G network

1+1 standby mode

Resource sharing





#### **Solution for NB-IoT**

### **Application scenario:**

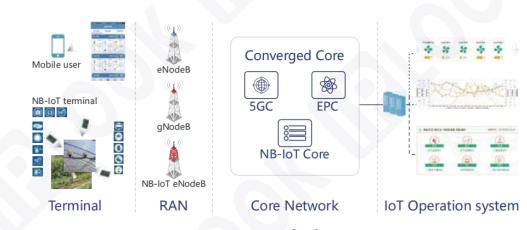
The NB-IoT core for both operator and private networks. With the solution, the IoT terminals or sensors can be some power saving NB-IoT or eMTC devices.

#### Services:

Small amount data transer

### **Key benefits:**

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



**NB-IoT Solution** 





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



### Certificates

### **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

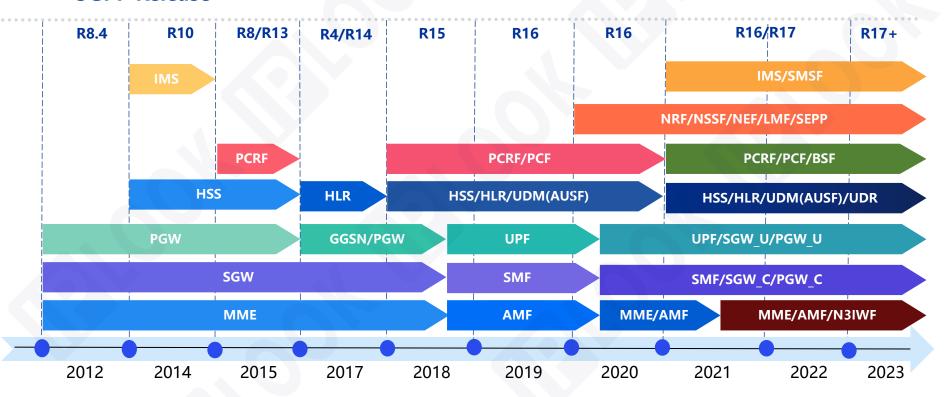


R4.2	R5.2-R5.6	R6.7	R7.4	R8.2
5GS/EPS interworking with N26 EPS Fallback 5GS/EPS Handover OMC Release Cloud 5GS Integration LEO Core • GMS Trail NES • MME/AMF • HLR/HSS/UDM/AUSF • EIR • SGW/PGW/GGSN • PCRF/PCF • PGW_C/SMF • PGW_U/UPF • NRF • NSSF • IMS • SBC	5GS NES  UDR  SEPP Release  NEF Release  UPF 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	<ul> <li>TSN Release</li> <li>R17 Feature Compliance</li> <li>V2X Trial</li> <li>5GC+Al Advanced Research Space-Integrated-Ground Network Core</li> <li>GMS Enhancement Adaptation to Cloud Platform</li> <li>VMware Cloud Platform</li> <li>AUS Cloud Platform</li> <li>ALI Cloud Platform</li> <li>General OpenStack Cloud platform</li> <li>100Gbps Platform</li> <li>UDR Policy Integrating</li> </ul>	<ul> <li>TSN release</li> <li>V2X release</li> <li>5G-Advanced LEO commercial</li> <li>5GS</li> <li>Enhanced Network Slicing Functionality</li> <li>5GC Location Services (Phase 3)</li> <li>MissionCritical and emergencies</li> <li>IMS</li> <li>Implement session persistence and recovery for SIP sessions</li> <li>LEO Core</li> <li>More flexible scenarios and models</li> <li>Edge computing</li> <li>Intelligence Algorithms</li> <li>More algorithm interfaces</li> </ul>	• 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

### **Product Release**



#### **3GPP Release**



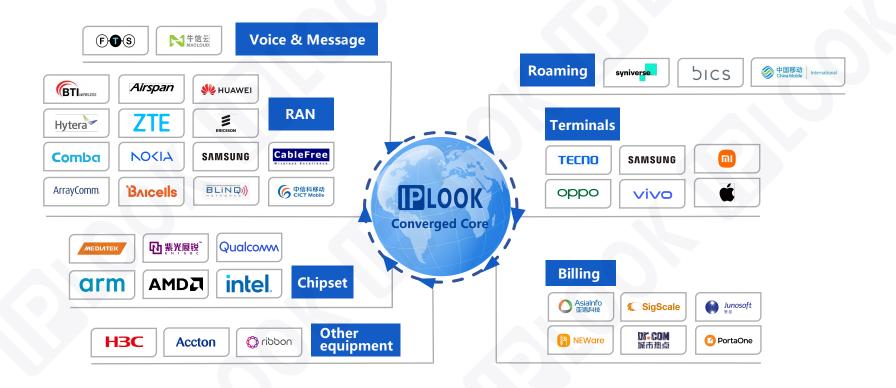
### **Clients**





### **Industry Ecosystem**





# **THANK YOU**



**IPLOOK Networks** 



**IPLOOK Networks** 



+86-18529209966



**IPLOOK Networks** 



sales@iplook.com



www.iplook.com