



BACKGROUND

Baicells continues to listen to its customers and respond with a variety of deployment options.

CloudCore - From the start, Baicells has provided each operator a private account on its CloudCore platform, which includes:

- Operations Management Console (OMC) for element management
- Business & Operations Support System (BOSS) for subscriber management
- Evolved Packet Core (EPC) backend LTE functions

HaloB - In early 2018, Baicells rolled out the HaloB feature option, which enables “Lite EPC” functions on the eNodeB (eNB). A HaloB eNB controls its subscribers independently without relying on the S1 interface to the core network.

Local EPC – In October 2018, Baicells announces its Local EPC (BaiEPC) for operators who wish to run a private network version of the EPC. BaiEPC provides the essential core network functions:

- Mobility Management Entity (MME)
- Serving Gateway (SGW)
- Packet Data Network Gateway (PGW)
- Policy & Charging Rules Function (PCRF)
- Home Subscriber Server (HSS)

DESCRIPTION

BaiEPC is an all-in-one core network platform which conforms to 3GPP telecommunications standards. It gives operators full control of the E2E network, and provides a way to customize services and to localize deployments, e.g., for multiple regions.

Baicells offers two Local EPC options: Standard and Professional. The Standard EPC platform is designed for small to mid-sized networks, while the Professional EPC platform is designed for larger networks and for customers requiring High Availability (using a second server for redundancy and software hot standby). Each platform provides additional licensing options.

Standard and Professional EPC come with a standard one-year warranty; extended warranty is available.

Note: BaiEPC requires the use of Local OMC+BOSS to manage the network elements and subscribers. The Local OMC+BOSS product is sold separately. Please refer to the Local OMC+BOSS data sheet on our website.

FEATURES

Mobility Management

- Attach/detach/idle
- Paging
- X2, S1 handover
- Tracking area update

Session Management

- Default bearer management
- Dedicated bearer management
- Multiple EPS bearers (up to 4 per UE)
- QoS

Networking Functions

- Static and dynamic IP address allocation
- E2E Layer 2 solution (with Baicells UE)

Policy & Charging

- IMSI/APN based PCC rules
- Offline charging

OAM

- Local management Web GUI
- Northbound APIs for OMC & BOSS

Performance (Standard)

- Supports up to 50 eNBs
- Supports up to 5,000 subscribers
- Data throughput up to 4 Gbps

Performance (Professional)

- Supports up to 200 eNBs
- Supports up to 20,000 subscribers
- Data throughput up to 16 Gbps

LICENSING

Standard EPC

Max eNBs	Max Subs	Optional Licenses
50	5,000	+ 1000 subs per 10 eNBs
		+ L2 via VxLAN and/or GRE

Professional EPC

Max eNBs	Max Subs	Optional Licenses
200	20,000	+ 1000 subs per 10 eNBs
		+ L2 via VxLAN and/or GRE