**PUBLIC SAFETY LTE**

# HOME SUBSCRIBER SERVER (HSS)

Collaboration is often critical to resolve incidents with minimal injury and damage to property. You need a reliable broadband connection to share critical data and collaborate with others. The Home Subscriber Server is central to the provisioning and authorization on LTE networks, defining the access levels of service available to all users, home and visitors, on the LTE network.

### ERICSSON LTE TECHNOLOGY LEADERSHIP

Ericsson is the world's leading provider of technology and services to telecom operators. As the undisputed leader in LTE development and standardization, Ericsson is the most trusted, most proven provider of standards-compliant LTE technology. Motorola Public Safety LTE networks are designed using the proven performance of Ericsson LTE platforms to deliver mission critical broadband services to those responsible for protecting lives and property.

### STANDARDS COMPLIANT

The Home Subscriber Server (HSS) is defined by the standards as the master repository that contains subscriber and device profile and state information. It supports authentication, authorization and mobility management functions. The HSS supports standards-based interfaces LTE MME (S6a). The HSS provides support to the Mobility Management Entity (MME) in order to complete the routing and roaming procedures by resolving authentication, authorization, naming and addressing resolution, and location dependencies.

### FIELD-PROVEN PLATFORM

Motorola's Public Safety LTE offering uses the Ericsson HSS platform. With years of proven in-service performance record, the Ericsson HSS currently provides mobile broadband service to a global user base. Public safety organizations can take comfort in knowing that their networks have passed the test of serving millions of users before being called upon to provide mission critical services to first responders in high-stress situations.

## ERICSSON HSS PLATFORM FEATURES AND CAPABILITIES

- Maintain and provide subscription data
- User Identification handling
- Access Authorization
- Supporting USIM based Authentication and Encryption
- User Registration management
- Maintain knowledge of used PDN GW
- Handles IRAT mobility between 2G/3G ←→ LTE accesses

- Flexible deployment (Front End or Monolithic)
- Operation and maintenance support
  - Configuration management
  - Fault management
  - Performance management
  - Security management
  - Software management

## SPECIFICATIONS

### CAPACITY AND PERFORMANCE

| Scalable | From 2 to 30 blades |
|---|---|
| Subscribers | Up to 5,000,000 |
| High Availability | 99.9999 |

### PHYSICAL AND ENVIRONMENTAL

| Size (W x D x H) | 23.6 x 15.5 x 70.9 in<br>600 x 400 x 1800 mm |
|---|---|
| Weight | 1 subrack : 242 lbs (110 kg)<br>3 subrack : 440 lbs (200 kg) |
| Input Voltage | Nominal: -48VDC<br>Normal Range: -40 to -57 VDC |
| Power Consumption | 1 subrack : 1200 W average<br>3 subrack : 4100 W average |
| Operating Conditions | Temperature range: +5 to +40° C<br>Temperature range (short term):<br>-5 to +50° C<br>Relative humidity range: 20 to 80% |

Learn more at **motorolasolutions.com/LTE**.

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