



## **PUBLIC SAFETY LTE**

# **DIAMETER ROUTING AGENT**

Anytime you are on duty, whether on patrol, en route or at an incident scene, you need instant access to all of your agency information resources. You need a reliable, mobile broadband connection, with the intelligence to ensure that the most critical information has the network resources to reach its destination when it matters the most.

### **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 Diameter Routing Agent (DRA) is the key network component to secure and centralize Diameter communication with other roaming partners and to increase the operation efficiency and reliability of the internal Diameter signaling network. RFC 6733 introduced Diameter agents to define distinguished roles based on how the DRA should handle incoming messages. The four types of agents are relay agent, proxy agent, redirect agent and translation agent, although the DRA currently implements only relay agent and proxy agent.

### **FIELD-PROVEN PLATFORM**

Motorola's Public Safety LTE uses the Ericsson DRA platform for LTE DRA functionality. With years of proven in-service performance record, the Ericsson DRA 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.

## DRA PLATFORM FEATURES AND CAPABILITIES

### Signaling aggregation through the Diameter Agent (DA)

- Remote peer connection
- Routing
- Network level load balancing
- Overload protection
- HSS Address resolution

### Policy and Charging Rules Function binding through the Diameter Routing Agent (DRA)

- Gx / Rx session binding
- PCRF selection
- Session verification

### LTE Roaming through the Diameter Edge Agent (DEA)

- Topology hiding
- Roaming relations
- Message screening
- Diameter transit traffic management
- Diameter traffic policing
- Diameter accounting and statistics
- Diameter traffic shaping

## SPECIFICATIONS

### CAPACITY AND PERFORMANCE

Capacity	Relay mode: 2,100,000 MPS Proxy mode: 700,000 MPS
Scalable	From 2 to 10 blades
Messages Per Second	Up to 100,000
High availability	99.999

### PHYSICAL AND ENVIRONMENTAL

Size (W x D x H)	23.6 x 15.5 x 70.9 in 600 x 400 x 1800 mm
Weight	1 subrack : 242 lbs (110 kg)
Input Voltage	Nominal: -48VDC Normal Range: -40 to -57 VDC
Power Consumption	1 subrack : 1200 W average
Transportation	Temperature range: -40 to +70° C
Operating Conditions	Temperature range: +5 to +40° C Temperature range (short term): -5 to +49° C Relative humidity range: 5 to 85%