

अनिवार्य आवश्यकताएँ

संख्या : TEC40072111

Essential Requirements

ER No. : TEC40072111

Mobility Management Entity

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Government of India

Khurshid Lal Bhawan, Janpath, New Delhi-110001, INDIA

Essential Requirements for:
Mobility Management Entity

Certification Scheme: **GCS**

Product Fee Group: **C**

MME is core node of 4G.

Note: Annexures referred to in this ER are Annexures as mentioned in "Annexures to ERs" No. TEC/SD/DD/TCP-222/02/June19 as updated from time to time and available on MTCTE portal.

This product has the following variants:

1. MME for LTE
2. MME with connectivity to MSC SGSN

1. Variant 1 : MME for LTE

1.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
1.1.1	Conducted And Radiated Emission - Class A	TEC EMI EMC Standard CISPR 22/32 EN55022/32. Annex-B
1.1.2	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
1.1.3	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
1.1.4	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B
1.1.5	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B
1.1.6	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B

1.1.7	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
1.1.8	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1
1.1.9	Lawful Interception	3GPP TS 33.106 3GPP TS 33.107 3GPP TS 33.108
1.1.10	Numbering Addressing and identification	3GPP TS 23.003

1.2 Interface 1 : Interface towards CBC

S.No.	Parameter Name	Standard Name
1.2.1	Cell Broadcast Procedures	3GPP TS 29.168
1.2.2	Interface Management Procedures (Interface towards CBC)	3GPP TS 29.168

1.3 Interface 2 : Mangament Interface

S.No.	Parameter Name	Standard Name
1.3.1	Configuration Faults Performance Management Procedures	3GPP TS 32.426
1.3.2	Subscriber data management(EIR Management Interface)	3GPP TS 32.426

1.4 Interface 3 : S1-MME Interface Towards eNodeB

S.No.	Parameter Name	Standard Name
1.4.1	Interface Management Procedures (S1-MME Interface Towards eNodeB)	3GPP TS 24.301 3GPP TS 36.413
1.4.2	Mobility Management Procedures (S1-MME Interface Towards eNodeB)	3GPP TS 24.301 3GPP TS 36.413
1.4.3	Session Management Procedures (S1-MME Interface Towards eNodeB)	3GPP TS 24.301 3GPP TS 36.413

1.5 Interface 4 : S10 Interface towards MME

S.No.	Parameter Name	Standard Name
1.5.1	Control Plane Procedures	3GPP TS 29.274
1.5.2	Interface Management Procedures (S10)	3GPP TS 29.274

	Interface towards MME)	
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1.6 Interface 5 : S11 Interface towards Serving Gateway

S.No.	Parameter Name	Standard Name
1.6.1	CS Fall back related procedures(S11 interface)	3GPP TS 29.274
1.6.2	Interface Management Procedures (S11 Interface towards Serving Gateway)	3GPP TS 29.274
1.6.3	Mobility Management Procedures (S11 Interface towards Serving Gateway)	3GPP TS 29.274
1.6.4	Tunnel Management Procedures (S11 Interface towards Serving Gateway)	3GPP TS 29.274

1.7 Interface 6 : S13

S.No.	Parameter Name	Standard Name
1.7.1	Equipment Identity Procedures	3GPP TS 29.272
1.7.2	Interface Management Procedures (S13 - Diameter based interface towards EIR)	3GPP TS 29.272

1.8 Interface 7 : S6a - Diameter Based Interface towards HSS

S.No.	Parameter Name	Standard Name
1.8.1	Interface Management Procedures (S6a - Diameter Based Interface towards HSS)	3GPP TS 29.272
1.8.2	Subscriber Data Management Procedures	3GPP TS 29.272

1.9 Interface 8 : SLG Interface towards GMLC for Location Based Services

S.No.	Parameter Name	Standard Name
1.9.1	Interface Management Procedures (SLG Interface towards GMLC for Location Based Services)	3GPP TS 29.172
1.9.2	Location Services Procedures (SLG Interface towards GMLC)	3GPP TS 29.172

1.10 Interface 9 : SLS

S.No.	Parameter Name	Standard Name
1.10.1	Interface Management Procedures (SLS Interface)	3GPP TS 29.1713GPP TS 23.271
1.10.2	Location Services Procedures (SLS Interface)	3GPP TS 29.1713GPP TS 23.271

2. Variant 2 : MME with connectivity to MSC SGSN

2.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
2.1.1	Conducted And Radiated Emission - Class A	TEC EMI EMC Standard CISPR 22/32 EN55022/32. Annex-B
2.1.2	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
2.1.3	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
2.1.4	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B
2.1.5	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B
2.1.6	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B
2.1.7	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
2.1.8	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1
2.1.9	Lawful Interception	3GPP TS 33.106 3GPP TS 33.107 3GPP TS 33.108
2.1.10	Numbering Addressing and identification	3GPP TS 23.003

2.2 Interface 1 : Interface towards CBC

S.No.	Parameter Name	Standard Name
2.2.1	Cell Broadcast Procedures	3GPP TS 29.168
2.2.2	Interface Management Procedures (Interface towards CBC)	3GPP TS 29.168

2.3 Interface 2 : Mangament Interface

S.No.	Parameter Name	Standard Name
2.3.1	Configuration Faults Performance Management Procedures	3GPP TS 32.426
2.3.2	Subscriber data management(EIR Management Interface)	3GPP TS 32.426

2.4 Interface 3 : S1-MME Interface Towards eNodeB

S.No.	Parameter Name	Standard Name
2.4.1	Interface Management Procedures (S1-MME Interface Towards eNodeB)	3GPP TS 24.301 3GPP TS 36.413
2.4.2	Mobility Management Procedures (S1-MME Interface Towards eNodeB)	3GPP TS 24.301 3GPP TS 36.413
2.4.3	Session Management Procedures (S1-MME Interface Towards eNodeB)	3GPP TS 24.301 3GPP TS 36.413

2.5 Interface 4 : S10 Interface towards MME

S.No.	Parameter Name	Standard Name
2.5.1	Control Plane Procedures	3GPP TS 29.274
2.5.2	Interface Management Procedures (S10 Interface towards MME)	3GPP TS 29.274

2.6 Interface 5 : S11 Interface towards Serving Gateway

S.No.	Parameter Name	Standard Name
2.6.1	CS Fall back related procedures(S11 interface)	3GPP TS 29.274
2.6.2	Interface Management Procedures (S11 Interface towards Serving Gateway)	3GPP TS 29.274
2.6.3	Mobility Management Procedures (S11 Interface towards Serving Gateway)	3GPP TS 29.274
2.6.4	Tunnel Management Procedures (S11 Interface towards Serving Gateway)	3GPP TS 29.274

2.7 Interface 6 : S13

S.No.	Parameter Name	Standard Name
2.7.1	Equipment Identity Procedures	3GPP TS 29.272
2.7.2	Interface Management Procedures (S13 - Diameter based interface towards EIR)	3GPP TS 29.272

2.8 Interface 7 : S3 Or Gn Interface towards SGSN

S.No.	Parameter Name	Standard Name
2.8.1	Interface Management Procedures (S3 Or Gn Interface towards SGSN)	3GPP TS 29.060

2.9 Interface 8 : S6a - Diameter Based Interface towards HSS

S.No.	Parameter Name	Standard Name
2.9.1	Interface Management Procedures (S6a - Diameter Based Interface towards HSS)	3GPP TS 29.272
2.9.2	Subscriber Data Management Procedures	3GPP TS 29.272

2.10 Interface 9 : SGS Interface towards MSC

S.No.	Parameter Name	Standard Name
2.10.1	Call Control Procedures	3GPP TS 23.272
2.10.2	Interface Management Procedures (SGS Interface towards MSC)	3GPP TS 23.272

2.11 Interface 10 : SLG Interface towards GMLC for Location Based Services

S.No.	Parameter Name	Standard Name
2.11.1	Interface Management Procedures (SLG Interface towards GMLC for Location Based Services)	3GPP TS 29.172
2.11.2	Location Services Procedures (SLG Interface towards GMLC)	3GPP TS 29.172

2.12 Interface 11 : SLS

S.No.	Parameter Name	Standard Name
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2.12.1	Interface Management Procedures (SLS Interface)	3GPP TS 29.1713GPP TS 23.271
2.12.2	Location Services Procedures (SLS Interface)	3GPP TS 29.1713GPP TS 23.271