

**अनिवार्य आवश्यकताएँ**

**संख्या : TEC40122111**

**Essential Requirements**

**ER No. : TEC40122111**

---

---

**OMC/EMS/NMS/OSS**

© टीईसी, २०२१  
© TEC, 2021

---

---

MTCTE के तहत जारी:

Issued under MTCTE by:

**दूरसंचार अभियांत्रिकी केंद्र**

**भारत सरकार**

**खुर्शीद लाल भवन, जनपथ, नई दिल्ली - 110001, भारत**

**Telecommunication Engineering Centre**

**Government of India**

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

---

## Essential Requirements for:

### OMC/EMS/NMS/OSS

Certification Scheme: **GCS**

Product Fee Group: **C**

This document lays down the Essential Requirements under MTCTE notified by GoI vide Gazette Notification No. G.S.R. 113 (E) dated 05-09-2017 for OMC/EMS/NMS/OSS.

*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. NMS
2. OMC or EMS

#### 1. Variant 1 : NMS

##### 1.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
-------	----------------	---------------

##### 1.2 Interface 1 : OMC-NMS

S.No.	Parameter Name	Standard Name
1.2.1	Fault Reporting Procedures (OMC-NMS)	3GPP TS 32.303 V6.4 - Notification IRP 3GPP TS 32.111-3 V6.3 - Alarm IRP
1.2.2	Interface Management Procedures (OMC - NMS)	3GPP TS 32.303 V6.4 - Notification IRP 3GPP TS 32.111-3 V6.3 - Alarm IRP

#### 2. Variant 2 : OMC or EMS

##### 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	OMC Alarm Management Procedures	ITU-T Recommendation X.733
2.1.10	OMC Configuration Related Procedures	ITU-T Recommendation No. M3010 ITU-T Recommendation M20
2.1.11	OMC Fault Management Procedures	ITU-T Recommendation No. M3010 ITU-T Recommendation M20
2.1.12	OMC Fault Reporting Procedures	ITU-T recommendation No. M3010 ITU-T Recommendation M20.
2.1.13	OMC Performance Management related Procedures	ITU-T Recommendation No. M3010 ITU-T Recommendation M20
2.1.14	OMC Security Management related procedures	ITU-T Recommendation No. M3010 ITU-T Recommendation M20

## 2.2 Interface 1 : OMC-Network Element

S.No.	Parameter Name	Standard Name
2.2.1	Configuration Performance Fault Management Procedures (OMC-Network Element)	SNMP V1 or V2c IETF RFC 1157
2.2.2	Interface Management Procedures(OMC-	SNMP V1 or V2c IETF RFC 1157

	Network Element)	
--	------------------	--

### 2.3 Interface 2 : OMC-NMS

S.No.	Parameter Name	Standard Name
2.3.1	Fault Reporting Procedures (OMC-NMS)	3GPP TS 32.303 V6.4 - Notification IRP 3GPP TS 32.111-3 V6.3 - Alarm IRP
2.3.2	Interface Management Procedures (OMC - NMS)	3GPP TS 32.303 V6.4 - Notification IRP 3GPP TS 32.111-3 V6.3 - Alarm IRP