

**अनिवार्य आवश्यकताएँ**

**संख्या : TEC40102111**

**Essential Requirements**

**ER No. : TEC40102111**

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**OTA and DM/FOTA**

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MTCTE के तहत जारी:

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## Essential Requirements for:

### OTA and DM/FOTA

Certification Scheme: **GCS**

Product Fee Group: **C**

This document lays down the Essential Requirements under the MTCTE framework in accordance with GoI Gazette Notification No. G.S.R. 1131(E), dated 05-09-2017, for OTA Platform and Device Manager Platform/FOTA to be used in Indian Telecom Network.

*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. DM or FOTA
2. OTA

#### 1. Variant 1 : DM or FOTA

##### 1.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
1.1.1	Automatic Device Configuration (ADC) auto configure devices (internet WAP MMS etc.)	OMA Client Provisioning (CP) v1.0
1.1.2	Automatic Device Configuration (ADC) auto deploy applications	OMA Client Provisioning (CP) v1.0
1.1.3	Automatic Device Configuration (ADC) auto update firmware on device	OMA Client Provisioning (CP) v1.0
1.1.4	Automatic Device Configuration (ADC) post configuration SMS	OMA Client Provisioning (CP) v1.0
1.1.5	Automatic Device Configuration (ADC) welcome SMS	OMA Client Provisioning (CP) v1.0
1.1.6	Conducted And Radiated Emission - Class A	TEC EMI EMC Standard CISPR 22/32 EN55022/32. Annex-B

1.1.7	Dual IP Layer Operation RFC 4213 - Address	RFC 4213 Cl. 2.1. Annex-P6
1.1.8	Dual IP Layer Operation RFC 4213 - DNS	RFC 4213 Cl. 2.1 and 2.2. Annex-P6
1.1.9	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
1.1.10	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
1.1.11	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B
1.1.12	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B
1.1.13	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B
1.1.14	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
1.1.15	IPV6 Extn Header Parameters	RFC 2460 or RFC 8200 . Annex-P7
1.1.16	IPV6 Header Parameters	RFC 2460 / RFC 8200 . Annex-P7

## 1.2 Interface 1 : Automatic Device Detection (ADD)

S.No.	Parameter Name	Standard Name
1.2.1	Interface Management Procedures (ADD)	3GPP TS 29.002 Mobile Application Part (MAP) specification

## 1.3 Interface 2 : SMPP Interface towards SMSC

S.No.	Parameter Name	Standard Name
1.3.1	Interface Management Procedures(SMPP Interface towards SMSC)	3GPP TS 23.039
1.3.2	SMS Related Procedures(SMPP Interface towards SMSC)	3GPP TS 23.039

## 2. Variant 2 : OTA

### 2.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
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2.1.1	Conducted And Radiated Emission - Class A	TEC EMI EMC Standard CISPR 22/32 EN55022/32. Annex-B
2.1.2	Dual IP Layer Operation RFC 4213 - Address	RFC 4213 Cl. 2.1. Annex-P6
2.1.3	Dual IP Layer Operation RFC 4213 - DNS	RFC 4213 Cl. 2.1 and 2.2. Annex-P6
2.1.4	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
2.1.5	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
2.1.6	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B
2.1.7	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B
2.1.8	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B
2.1.9	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
2.1.10	IPV6 Extn Header Parameters	RFC 2460 or RFC 8200 . Annex-P7
2.1.11	IPV6 Header Parameters	RFC 2460 / RFC 8200 . Annex-P7
2.1.12	Security Management related Procedures	3GPP TS 23.048

## 2.2 Interface 1 : Interface towards Certification Authority

S.No.	Parameter Name	Standard Name
2.2.1	Certificate related procedures(Interface towards Certification Authority)	IETF RFC 6101
2.2.2	Interface Management Procedures(Interface towards Certification Authority)	IETF RFC 6101

## 2.3 Interface 2 : SMPP or CMD or UCP

S.No.	Parameter Name	Standard Name
2.3.1	Interface Management Procedures(SMPP or CMD or UCP Interface)	SMPP: 3GPP TS 23.039
2.3.2	SMS Related Procedures(SMPP or CMD or UCP Interface)	SMPP: 3GPP TS 23.039