

19 January 2024

[Equipment Suppliers/Dealers of Mobile Terminals]

By Email only

Dear Sirs

PROPOSED VOLTE REQUIREMENTS FOR MOBILE TERMINALS

- 1 On 27 July 2023 IMDA announced that 3G services would cease on 31 July 2024. We would like to remind all equipment dealers of the upcoming changes to 3G networks and services in Singapore. Please take note of the following timelines:
 - i. From 1 November 2023: The Infocomm Media Development Authority (IMDA) has stopped accepting new registrations and renewals of 3G-only mobile phones and non-VoLTE capable smartphones.
 - ii. From 1 February 2024: The sale of 3G-only mobile phones and non-VoLTE capable smartphones for local use will no longer be allowed. IMDA will invalidate the registrations of these equipment by 1 February 2024.
 - iii. From 31 July 2024 onwards: 3G networks and services will cease in Singapore.

- 2 To better serve the interest of consumers in Singapore, IMDA is proposing that dealers who are importing mobile phones for sale in Singapore will need to ensure that the mobile phones they are selling comply with the following requirements:
 - i. Mobile phones shall be capable of making VoLTE calls on all four Mobile Network Operators' ("MNOs") public networks in Singapore. Dealers shall validate this through their own testing, and submit a declaration letter as a form of confirmation to the requirement during the equipment registration process.
 - ii. Mobile phones shall comply with the specifications in 3GPP TS34.229-1 (refer to Annex 1). If unsure, dealers/equipment suppliers shall check with their handset manufacturers on compliance to the specifications and submit a compliance checklist during the equipment registration process.

- 3 We would like to seek your views on the proposed requirements mentioned in Paragraph 2 above. Specifically, you may wish to let us know:
 - i. if only partial compliance to the requirements could be achieved;
 - ii. if any of the specifications in Annex 1 could not be met; and/or

- iii. if handsets produced only after a certain date could comply with the specifications.
- 4 Please submit the requested information by 31st January 2024 via email to Telecoms_Standards@mda.gov.sg. You may also e-mail us your queries. We appreciate your cooperation in this matter.

Yours faithfully

Tommy Soh (Mr)

Senior Assistant Director, Licensing

This is a computer generated letter. No signature is required.

Encl./

Annex 1

S/N	Section number in 3GPP TS34.229-1	Description	Compliance
		Registration	
1	8.1	Initial registration	Y/N
2	8.2	User initiated re-registration	Y/N
3	8.4	Invalid behaviour - 423 Interval	Y/N
4	8.16	User initiated re-registration – 423 Interval	Y/N
		Authentication	
5	9.1	Invalid Behaviour – MAC Parameter Invalid	Y/N
6	9.2	Invalid Behaviour – SQN out of range	Y/N
		Subscription	
7	10.1	Invalid Behaviour – 503 Service Unavailable	Y/N
		Notification	
8	11.1	Network initiated deregistration	Y/N
9	11.2	Network initiated re-authentication	Y/N
		Call Control	
10	12.2	MO Call with preconditions at both originating UE and terminating UE – 503 Service Unavailable	Y/N
11	12.2a	MO Call with preconditions at both originating UE and terminating UE – 504 Server Time-out	Y/N
12	12.12	MO MTSI Voice Call Successful with preconditions at both originating UE and terminating UE	Y/N
13	12.13	MT MTSI speech call with preconditions at both originating UE and terminating UE	Y/N
		Codec selecting	
14	16.2	Speech AMR, indicative selective codec modes	Y/N
15	16.3	Speech AMR-WB, indicate all codec modes	Y/N
16	16.4	Speech AMR-WB, indicate selective codec modes	Y/N
		Emergency Service over IMS	
17	19.1.2	Emergency call with emergency registration/Success/Location information not available	Y/N
18	19.3.1	Non-UE detectable emergency call / IM CN sends a 1xx response / UE geographical location information available or not	Y/N
19	19.3.3	Non-UE detectable emergency call / IM CN sends 380 Alternative Service / Emergency IMS	Y/N
20	19.4.2	Emergency call without emergency registration / EPS / UE contains an ISIM or USIM / UE is in state EMM-REGISTERED.LIMITED-SERVICE	Y/N
21	19.4.5	Emergency call without emergency registration / UE credentials are not accepted	Y/N
22	19.5.1	New initial emergency registration / UE obtains from the serving IP-CAN an IP address different than the IP address used for the emergency registration	Y/N
23	19.5.9	In parallel emergency and non-emergency registrations	Y/N