

Monitoring Report on Communication Feature and Technical Capability of Domestic Mobile Phones (Term II, 2018)

Editorial Note

In Q2 of 2018, the market share of 4G mobile phones was kept stable; and the frequency band features of 4G mobile phones have changed slightly. With the introduction of new technical features such as multi-carrier aggregation and high-order modulation, 4G mobile phones with higher transmission categories such as CAT10, CAT11 and CAT12 kept increasing in market share; and those with Android Ver.8 operating system have been far more than those with other Android versions.

Note: The statistical data in this Report come from the database of CTTL-Terminals, CAICT.

Monitoring Analysis on Communication Feature of Domestic Mobile Phones

According to the statistic analysis by CTTL-Terminals, CAICT, in Q2 of 2018, of the 228 models of mobile phones in the application for network access license, 178 models are 4G mobile phones, accounting for 78.07%, down 5.1% y-o-y compared with that in Q2 of 2017, and down 3.9% q-o-q compared with that in Q1 of 2018. 2G modules accounted for 21.49%.

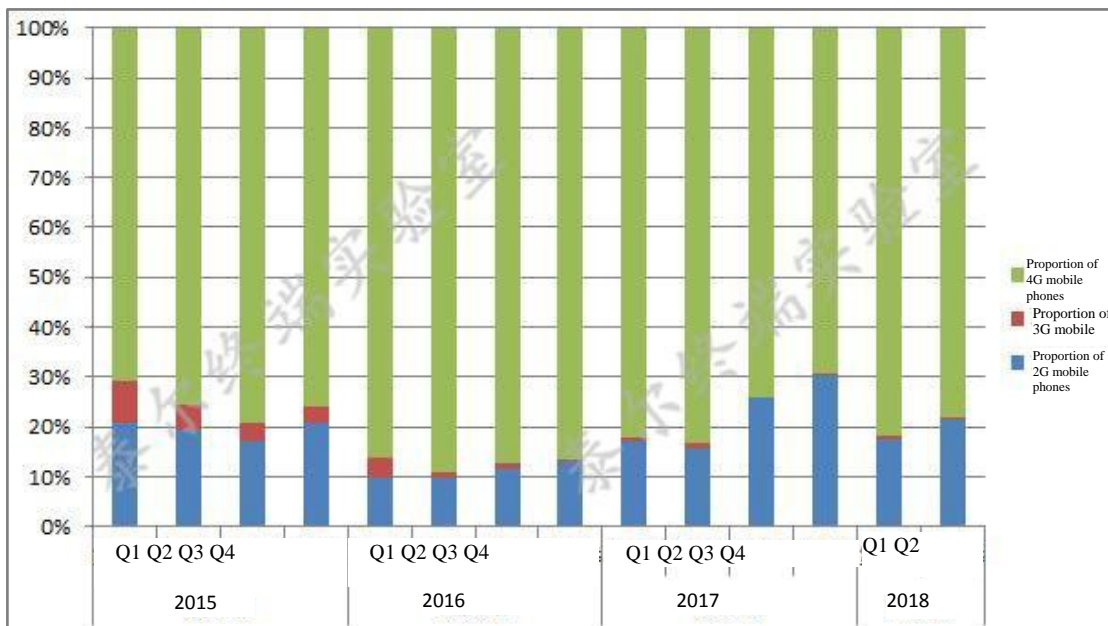


Chart 1: Proportions of 2G/3G/4G Mobile Phones

Frequency band feature of 4G mobile phones

According to the statistic analysis by CTTL-Terminals, CAICT, in Q2 of 2018, of the 178 models of 4G mobile phones in the application for network access license, those supporting Band41 accounted for 100%, with no change in model proportion compared with that in Q2 of 2017 and in Q1 of 2018; those supporting Band1 accounted for 88.8%, and those supporting Band3 accounted for 97.7%.

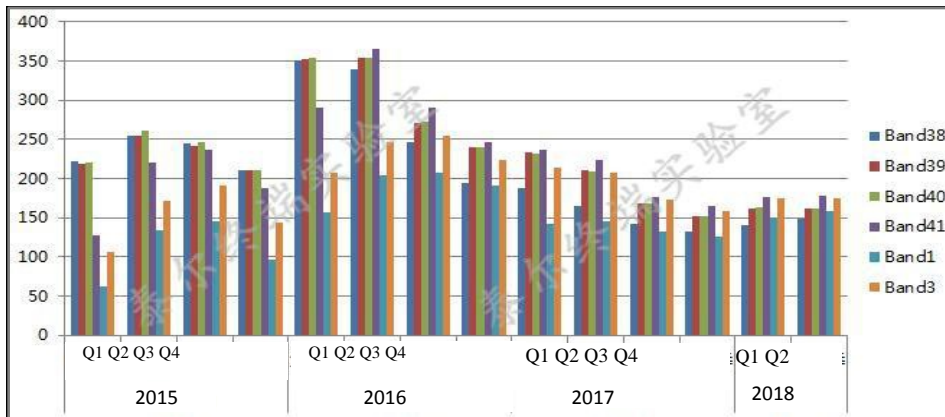


Chart 2: Frequency Band Feature of 4G Mobile Phone

Feature of voice solution of 4G mobile phones

According to the statistic analysis by CTTL-Terminals, CAICT, in Q2 of 2018, of the 178 models of 4G mobile phones in application for network access license, 168 models supported VoLTE solution, accounting for 94.4%, up 3.8% y-o-y compared with that in Q2 of 2017, and up 1.2% q-o-q compared with that in Q1 of 2018.

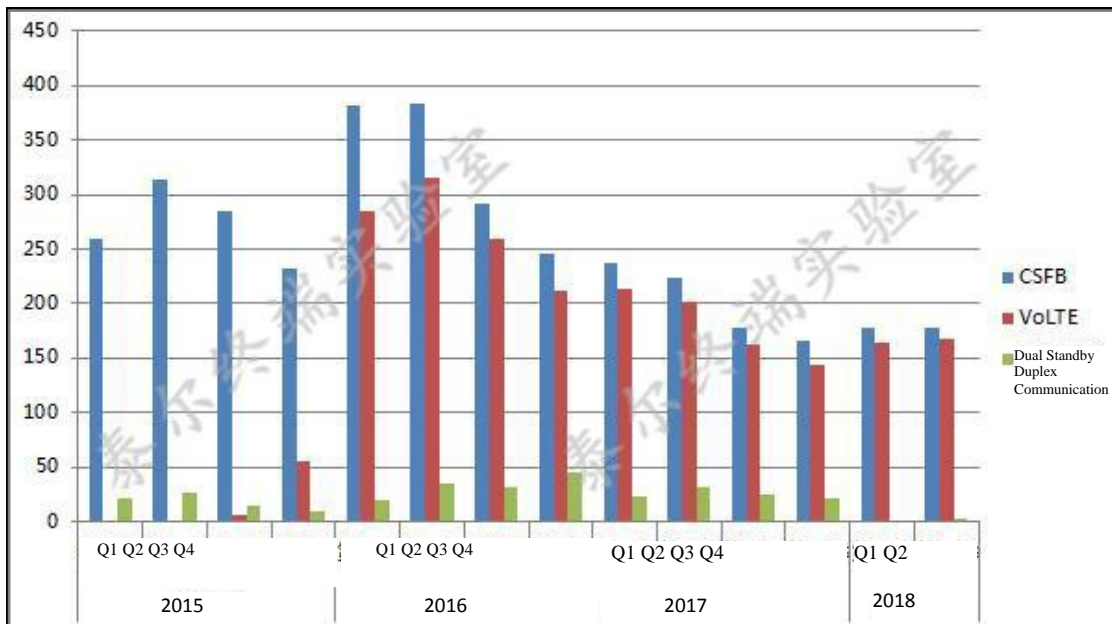


Chart 3: Feature of Voice Solution of 4G Mobile Phone

Feature of 4G mobile phones' transmission category

According to the statistic analysis by CTTL-Terminals, CAICT, in Q2 of 2018, of the 178 models of 4G mobile phones in application for network access license, 77 models are CAT4, 69 models are CAT6, CAT7 and CAT9, and 32 models are CAT10, CAT11 and CAT12 with higher transmission categories.

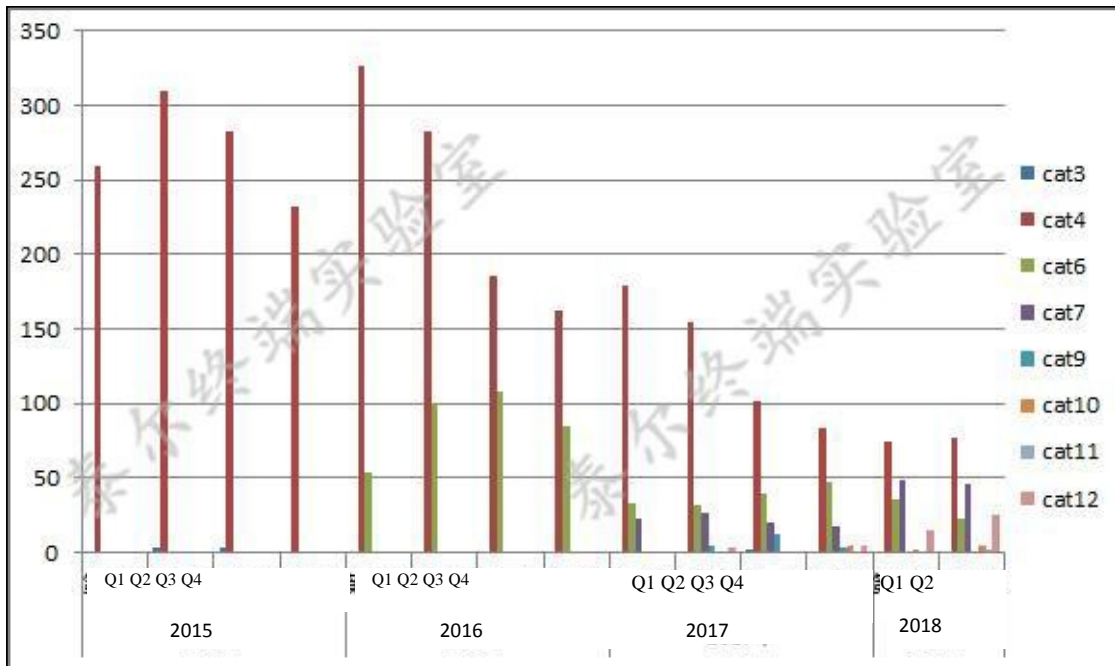


Chart 4: Feature of 4G Mobile Phones' TransmissionCategory

Monitoring analysis on the positioning technology of domestic mobile phones

According to the statistic analysis by CTTL-Terminals, CAICT, in Q2 of 2018, of the mobile phones in application for network accesslicense, 174 models supported positioning function, all of which were 4G mobile phones.

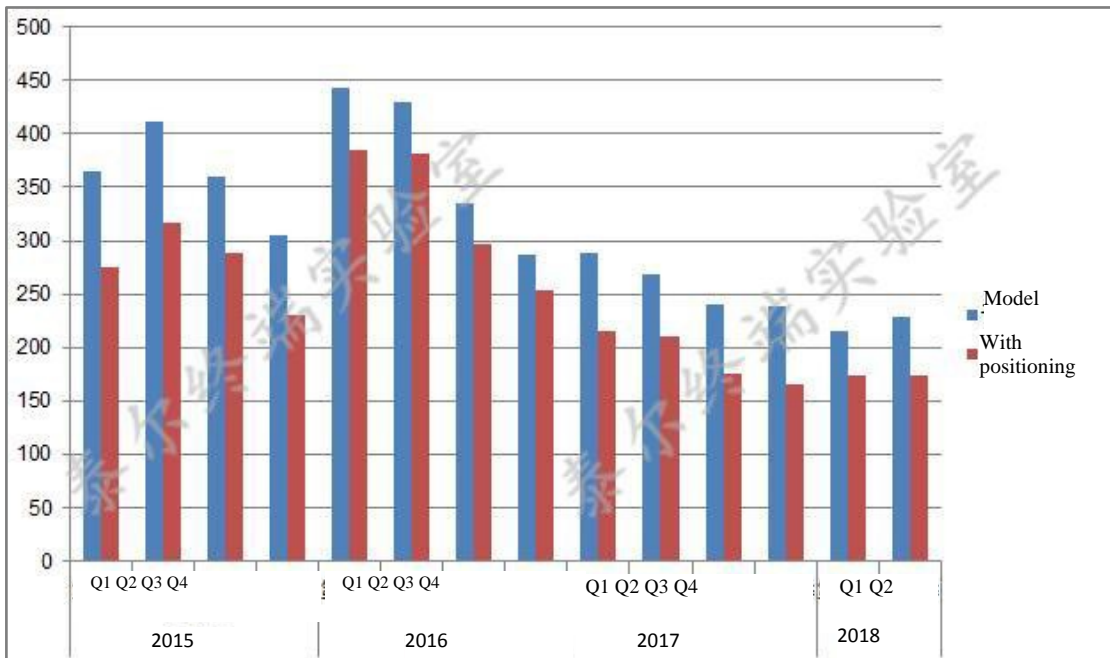


Chart 5: Number of Modules Supporting Positioning Function (based on Enterprises' Self-declared Data)

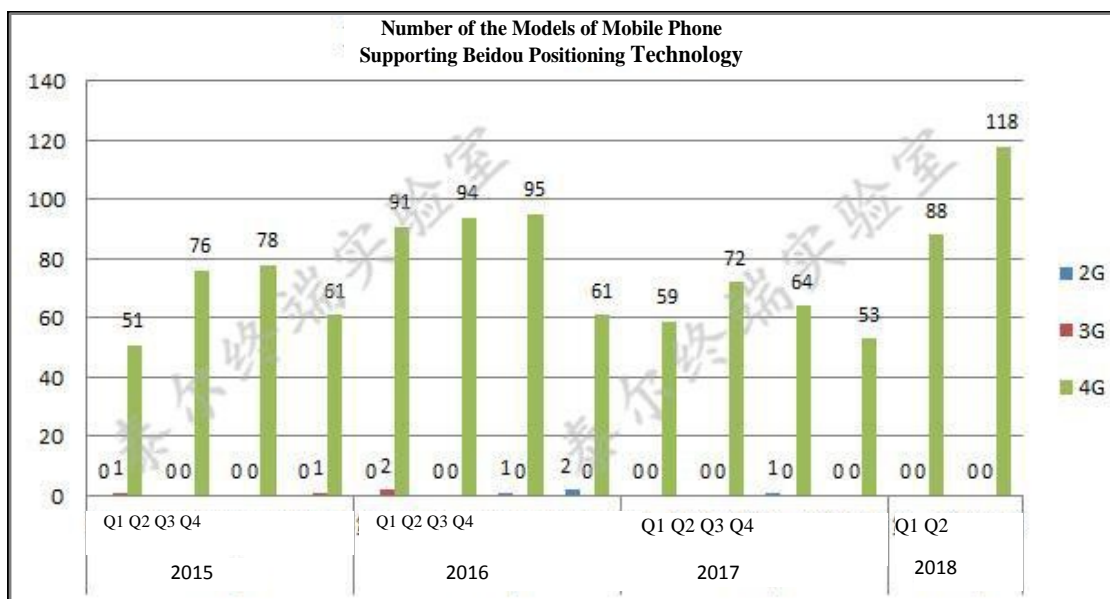


Chart 6: Number of the Models of Mobile Phone Supporting Beidou Positioning Technology (based on Enterprises' Self-declared Data)

Monitoring analysis on the operating system of domestic mobile phones

According to the statistic analysis by CTTL-Terminals, CAICT, in Q2 of 2018, of the 4G mobile phone in application for network access license, smart phones accounted for 98.3%. In all smart phones, the proportion of Android operating systems remained No.1, at 93.8%. Android Ver. 8 had become a mainstream one in Android operating systems, accounting for 68.8%, up 11.3% q-o-q compared with that in Q1 of 2018.

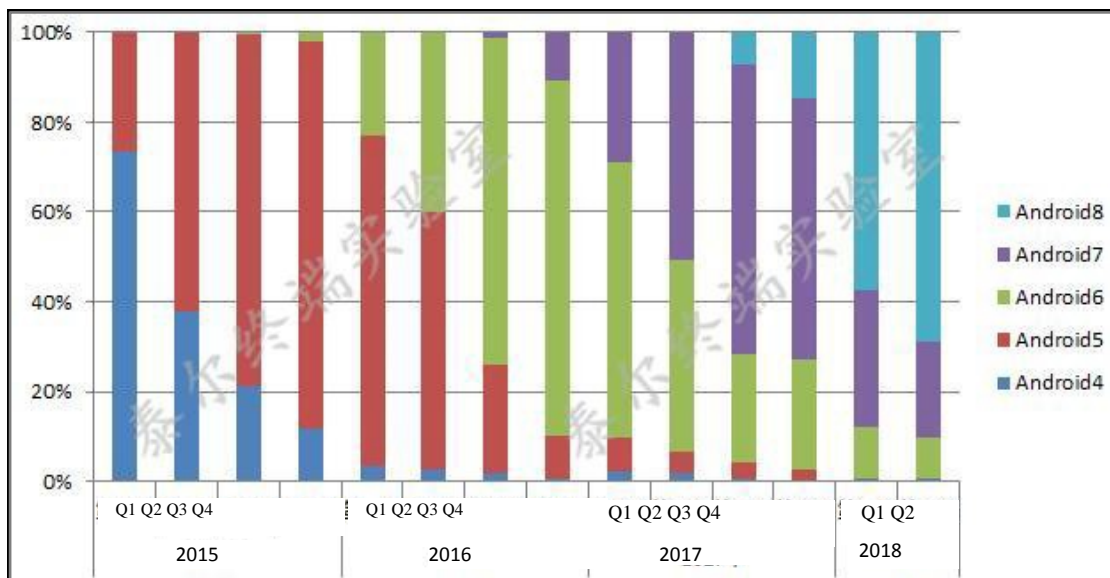


Chart 7: Proportion of the Models with Android Operating System

About the team

CAICT's cross-department special research team is responsible for follow-up study on

"feature and technical capacity of domestic mobile phones". Consisting of several industrial experts and researchers from CTTL-terminals, the Telecommunication Equipment Certification Center and other departments, the team concentrates on follow-up study and analysis on technical feature and industrial development of China's mobile phone.

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