Annex E: Roaming Zones

Country group 0

Austria

Country group 1

Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy (incl. Vatican City & San Marino), Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Réunion (France), Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turks and Caicos Islands (UK), United Kingdom

Country group 2

Albania, Armenia, Belarus, Bosnia and Herzegovina, Faroe Islands (Denmark), Georgia, Gibraltar (UK), Greenland (Denmark), Kosovo, Moldova, Monaco, Montenegro, Republic of Macedonia, Russian Federation, Serbia, Turkey, Ukraine

Country group 3

American Samoa (US), Argentine Republic, Australia, Azerbaijani Republic, Brazil, British Virgin Islands (UK), Cambodia, Cayman Islands (UK), Chile, Colombia, Costa Rica, Ecuador, French West India (French Antilles and French Guiana), Guam (US), Guatemala, Honduras, Iraq, Israel (without Palestine), Japan, Macau (PRC), Mexico, Nigeria, Panama, Paraguay, Perú, Philippines, Puerto Rico (US), Qatar, Saudi Arabia, Singapore, Sri Lanka, Thailand, United States of America, United States Virgin Islands (US), Uruguay

Country group 4

Algeria, Andorra, Aruba, Bahrain, Belize, Bolivia, Canada, China, Curacao, Dominican Republic, Egypt, El Salvador, Fiji, Hong Kong (PRC), India, Indonesia, Iran, Jamaica, Jordan, Kenya, Kuwait, Laos, Malaysia, Myanmar, Pakistan, Sint Maarten, South Africa, South Korea, Taiwan, United Arab Emirates, Vanuatu

Country group 5

Bermuda (UK), Cape Verde, Côte d'Ivoire, French Polynesia, Gabonese Republic, Guinea, Guyana, Kazakhstan, Mali, Mauritius, Morocco, New Zealand, Oman, Senegal, Sierra Leone, Tonga

Country group 6

Bahamas, Brunei Darussalam, Cuba, Mongolia, Mauritania, Nepal, Tanzania, Tunisia, Uganda, Uzbekistan, Vietnam

Country group 7

All other countries

Reservation of Right of Unilateral Amendments Regarding Roaming Countries
T-Mobile reserves the right to allocate countries to different groups. Changes of T-Mobile Roaming countries and/or partners and of the zones and/or allocation to zones remain reserved.

The LPWA technologies NB-IoT and LTE-M are not available in all countries stated in this annex.

T-Mobile constantly works on an expansion of NB-IoT and LTE-M roaming agreements. As soon as a roaming agreement has been concluded in other countries, the terms agreed in this contract shall also apply to those countries.

The up-to-date list of countries and NB-IoT and LTE-M roaming partners of T-Mobile can be made available to the customer upon request at any time.

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Annex F: Duties of the customer

1.1 General

To warrant proper functionality of T-Mobile's mobile communication network for all customers and their terminal devices the customer undertakes to develop and operate its terminal devices and applications ("Customer Solution") in accordance with the guidelines stated below (paras 1.2 and 1.3) on the basis of the most recent version of the GSMA Connection Efficiency Guidelines (https://www.gsma.com/iot/gsma- iot-device-connection-efficiency-guidelines/) ("Network Conformity").

In the case that the customer does not fulfil its obligations in this regard and if this causes or may cause overloads of T-Mobile's and its Roaming Partners' mobile communication network, T-Mobile reserves the right to block access of such terminal devices of the customer to the mobile communication network.
Such terminal devices of the customer will remain blocked by T-Mobile until the customer has established Network Conformity. T-Mobile will reactivate the customer's terminal devices concerned as soon as the customer informs T-Mobile about (re)established Network Conformity. Any obligations to pay charges shall remain unaffected thereby.

1.2

The functionalities of the Customer Solution shall depend on the guidelines in Section 4 of the GSMA Connection Efficiency Guidelines (https://www.gsma.com/iot/gsma-iot-device-connection-efficiency-guidelines/) "IoT Device Application Requirements" as amended from time to time.

1.3

The functionalities of the Customer Solution shall depend on the guidelines in Section 5 of the GSMA Connection Efficiency Guidelines (https://www.gsma.com/iot/gsma-iot-device-connection-efficiency-guidelines/) "Communication Module Requirements" as amended from time to time. In particular the following guidelines must be observed:

1.3.1

Communication of the customer's terminal device with the mobile communication network of T-Mobile and its Roaming Partners must adhere to the 3GPP (http://www.3gpp.org/) specifications.

1.3.2

Radio modules in the terminal devices of the customer must be certified by the GCF (Global Certification Forum) (http://www.globalcertificationforum.org).

1.3.3

Minimum requirement for radio modules in customer's devices is "Limited Certification" issued by Deutsche Telekom AG.

1.3.4

If the Customer Solution is comprised of more than 10,000 terminal devices, either the "Radio Policy Manager" function or the "Network Friendly Mode" function must be available at the 3GPP chipset or at a modular level. Both functions are defined in the GSMA Connection Efficiency Guidelines

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(https://www.gsma.com/iot/gsma-iot-device-connection-efficiency-guidelines/). The customer must activate those features on the basis of the requirements by T-Mobile. The customer is solely responsible for the activation process. T-Mobile assumes no responsibility for any loss of data that may be caused by activation of and/or intervention by the features stated above.

1.4

In the case of unauthorised access by third parties and/or in the case that the device has been compromised (e.g. DDoS attacks) T-Mobile reserves the right to block the device's access to the network.

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