

## Notes

These device/GSM modem requirements are to ensure the capability of switching subscriptions on ConnectedYou eSIMs works properly.

Not meeting these requirements from the device/GSM modem, ConnectedYou eSIMs act as normal SIMs and still provide connectivity services with the subscription present on the card, but that subscription cannot be remotely switched.

Source: The requirements are as defined by GSMA and applicable for any eSIMs, they are not limited to ConnectedYou eSIMs.

## Requirements

Functional device requirements No.	Requirement
DEV 1	For connectivity the Device shall support: <ul style="list-style-type: none"> <li>● At least one of the network access technologies defined by 3GPP in the non-exhaustive following list:               <ul style="list-style-type: none"> <li>○ GERAN,</li> <li>○ UTRAN</li> <li>○ E-UTRAN.</li> </ul> </li> <li>● UDP over IP [32] (subject to the right support of access network technology)</li> <li>● TCP over IP [33] (subject to the right support of access network technology)</li> </ul>
DEV 2	For Network connection control the Device shall support: <ul style="list-style-type: none"> <li>● RPLMN details (LAC/TAC, NMR).</li> <li>● QoS (failures, duration, power, location).</li> <li>● SMS management.</li> <li>● New network selection after SIM/USIM update.</li> </ul>
DEV 3	For reporting to a server the Device shall support: <ul style="list-style-type: none"> <li>● SMS-PP MO as defined in [3] and SMS-PP MO as defined [33] or [29] BIP as defined in DEV4</li> </ul> <p>The Device should support:</p>

	<ul style="list-style-type: none"> <li>• USSD</li> </ul>
DEV 4	<p>For Profile and Platform Management the Device shall support:</p> <ul style="list-style-type: none"> <li>• SMS-PP MT as defined in [3], and SMS-PP MT as defined [33] or [29]</li> <li>• BIP (subject to the support of the right network access technology) as defined in [3] including support of commands: <ul style="list-style-type: none"> <li>○ OPEN CHANNEL (UDP and TCP over IP)</li> <li>○ CLOSE CHANNEL</li> <li>○ RECEIVE DATA</li> <li>○ SEND DATA</li> <li>○ GET CHANNEL STATUS</li> <li>○ ENVELOPE (EVENT DOWNLOAD - Data available)</li> <li>○ ENVELOPE (EVENT DOWNLOAD Channel status)</li> </ul> </li> </ul>
DEV 5	<p>The Device shall contain a unique IMEI (International Mobile Equipment Identity) value compliant with the format defined in ETSI TS 123 003 [31].</p> <p>The value of IMEI shall be directly copied from TERMINAL RESPONSE of the Provide Local Information command (see ETSI TS 102 223 [3] and ETSI TS 124 008[20]).</p>
DEV 6	<ul style="list-style-type: none"> <li>• The Device shall support, as a minimum, the following set of commands (in addition to BIP commands) as defined in ETSI TS 102 223 [3] and 3GPP TS 31.111 [27]. Basic SAT commands (TERMINAL PROFILE, FETCH, TERMINAL RESPONSE)</li> <li>• PROVIDE LOCAL INFORMATION (location information, IMEI, NMR, date and time, access technology, at least)</li> <li>• SEND SHORT MESSAGE</li> <li>• POLL INTERVAL, POLLING OFF, TIMER MANAGEMENT [at least one timer], ENVELOPE (TIMER EXPIRATION)</li> <li>• SET UP EVENT LIST and ENVELOPE (EVENT DOWNLOAD location status, call connected, call disconnected, Access Technology Changed, Network Rejection)</li> <li>• ENVELOPE (SMS-PP DOWNLOAD)</li> <li>• REFRESH Command (At least mode 4 - "UICC reset")</li> </ul>
DEV 7	<p>The Device shall comply with the GSMA- EICTA document "Security Principles Related to Handset Theft [30]</p>
DEV 8	<p>The Device may retrieve the EID defined in section 2.2.2 of this specification from the eUICC and shall support the following commands as described in [35]:</p>

	<ul style="list-style-type: none"><li>• AT+CCHO (Open Logical Channel)</li><li>• AT+CCHC (Close Logical Channel)</li><li>• AT+CGLA (Generic UICC Logical Channel Access)</li></ul>
DEV 9	<p>The Device shall support from the [35] the following commands for all generic purposes:</p> <ul style="list-style-type: none"><li>• AT+CRSM (Restricted SIM access)</li></ul>