

# TST100 Stable firmware

[Main Page](#) > [E-Mobility Trackers](#) > [TST100](#) > [TST100 Firmware and configurator](#) > **TST100 Stable firmware**

<small>FIRMWARE VERSION: CONFIGURATOR VERSION: RELEASE DATE:</small>	<small>STABLE BASE FIRMWARE</small>	<small>55.01.10 Rev.00 1.6.11 R.39 2022.09.12</small>	<small>DOWNLOAD Firmware Configurator DOWNLOAD ALL DOWNLOAD ALL</small>
--	-------------------------------------	---	---

## CHANGELOG

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>55.01.10.Rev.00</b> <b>1.6.11 R.39</b>	2022.09.12	<ul style="list-style-type: none"><li>• [ADD]: Added timestamp backup description.</li><li>• [CHN]: Corrected misleading and outdated tooltips.</li><li>• [ADD]: Added Hergele scooter protocol.</li><li>• [ADD]: Added <a href="#">SIM card tamper protection</a> feature.</li></ul>	<ul style="list-style-type: none"><li>• [FIX]: Fixed BLE Sensor Custom IO SMS sending with value NaN and displaying as ASCII in Configurator.</li><li>• [FIX]: Fixed device constantly opening and closing GPRS with permanent link if APN is empty in configurator.</li><li>• [FIX]: Fixed permanent link not changing protocol after reconfiguration.</li><li>• [CHN]: Updated FOTA WEB protocol ID 0x04 =&gt; 0x05</li><li>• [FIX]: Increased connection interval in order to speed up connection through BLE terminal.</li><li>• [FIX]: Fixed POSI command skipping.</li><li>• [FIX]: Fixing network stability issues.</li><li>• [FIX]: Fixed timestamp not renewing for Eddystone beacons.</li><li>• [FIX]: Added condition to prevent closing socket, if GPRS command is received and response was not sent yet.</li><li>• [ADD]: Added <a href="#">SIM card tamper protection</a> feature.</li><li>• [ADD]: Added BT whitelist for Solebe lock.</li><li>• [ADD]: Hergele scooter support added.</li><li>• [CHN]: Increased external queue size to prevent abnormal restarts during BLE scan.</li><li>• [FIX]: Fixed a broken GSM connection due to incorrect SIM card selection.</li><li>• [ADD]: HeadLight status in Scooter IO added</li></ul>
VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES

<b>55.01.02.Rev.01</b> <b>1.6.11_R.30</b>	2021.11.03	<ul style="list-style-type: none"> <li>• Changed SMS Timezone label.</li> <li>• GNSS source parameter mask changed to allow only valid GNSS modes.</li> <li>• Changed scooter speed limits IOs high/low ranges and default values.</li> <li>• Added Segway Cable Lock I/O elements.</li> <li>• Changed unauthorized movement buzzer control default values.</li> </ul>	<ul style="list-style-type: none"> <li>• SMS commands updated. Commands will return time with time zone applied.</li> <li>• Added Segway wired lock support.</li> <li>• Movement detection tracking fixed.</li> <li>• For GNSS source parameter only available values can be set.</li> <li>• Fixed Unauthorized Movement event SMS sending.</li> <li>• Fixed record generation with correct AVL ID for Unauthorized Movement.</li> </ul>
<b>55.00.22.Rev.00</b> <b>1.6.11_R.27</b>	2021.08.23	<ul style="list-style-type: none"> <li>• Changed GNSS source parameter mask to allow only valid GNSS modes.</li> <li>• Changed scooter speed limits IOs high/low ranges and default values.</li> <li>• Changed Data Acquisition tool tips and labels.</li> <li>• Added Falldown auto calibration parameter.</li> <li>• Added <a href="#">Unauthorized movement</a> functionality.</li> <li>• Added <a href="#">Last known position</a> parameter.</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed GPS automatic always ON at the start.</li> <li>• Updated function to wake up the device if it is moved during "Data sending state".</li> <li>• Fixed I/O Sleep mode element to send an event messages on entering the mode.</li> <li>• Added <a href="#">Last known position</a> parameter.</li> <li>• Added <a href="#">pulsedigout</a> command with on/off timeouts in ms and repeats.</li> <li>• Fixed GNSS Fix status always on after changing GNSS source.</li> <li>• Updated restricted I/Os by scooter model and fixed battery lock status value.</li> <li>• Added <a href="#">Unauthorized movement</a> functionality.</li> <li>• Added Falldown auto calibration support for TST100.</li> <li>• Changed Battery value SMS text format changed to unsigned int.</li> <li>• <b>Added Segway MAX autodetection and MC FW update.</b></li> <li>• <b>Added Segway ES autodetection and MC FW update.</b></li> <li>• Fixed periodic data record generation in order to avoid skipping.</li> <li>• Updated Segway ES2/4 FW (ESC 4.0.5).</li> <li>• Added a time guard if BLE scan job is stuck.</li> <li>• Fixed Unauthorized Movement event SMS sending.</li> <li>• Fixed record generation with correct AVL ID for Unauthorized Movement.</li> <li>• Fixed ext voltage value representation in battery SMS command response.</li> <li>• Fixed scooter speed limits IOs hi/lo ranges check.</li> <li>• Fixed unauthorized movement buzzer control using default values.</li> </ul>

<b>55.00.14.Rev.00</b> <b>1.6.11_R.19</b>	2021.02.03	<ul style="list-style-type: none"> <li>• Added Baudrate options.</li> <li>• Added Battery lock status Scooter IO element.</li> </ul>	<ul style="list-style-type: none"> <li>• Added battery percentage value to the SMS.</li> <li>• Increased compatible beacons count from 25 to 100.</li> <li>• Fixed memory leak, when the GPS module is turned on and off frequently.</li> <li>• Changed scooters' IOs filtering depending on protocol.</li> <li>• Fixed locking behavior during ride.</li> <li>• Improved Movement detection.</li> <li>• Segway MAX MC FW was updated to 21.1.0.</li> <li>• Added Baudrate options.</li> <li>• Fixed temperature and FW version reading in FitRider e-kick scooters.</li> <li>• Fixed speed limit function. Added command <i>scsetspdlimt2s</i> for FitRider T2s e-kick scooters.</li> <li>• Added debug option for sending/receiving FitRider data packets.</li> <li>• Segway MAX scooters locking sequence changed: when scooter is moving and command to lock the scooter was received, the engine is turned off and after the scooter is fully stopped it is locked.</li> <li>• Added Battery Lock control command and Battery lock status IO element.</li> </ul>
<b>55.00.09.Rev.08</b> <b>1.6.11_R.14</b>	2020.10.16	<ul style="list-style-type: none"> <li>• Updated scooter's FW rendering in E-Scooter I/O panel from DEC to HEX;</li> <li>• Added permanent link with server feature;</li> <li>• Removed accelerometer's autocalibration parameter;</li> <li>• Added 3 new I/O parameters - Normal/Eco/Sport speed limit;</li> <li>• Added BT Status I/O parameter;</li> </ul>	<ul style="list-style-type: none"> <li>• Improved BLE lock functionality;</li> <li>• Added 3 new I/O parameters - Normal/Eco/Sport speed limit;</li> <li>• Updated Segway MAX kick e-scooter's MC FW version checking functionality;</li> <li>• Updated <i>scgetbtcode</i> and <i>sclookfor</i> commands;</li> <li>• Added BT Status I/O parameter;</li> <li>• Updated Segway MAX MC and BMS FW versions to 21.0.7 and 3.5.6 correspondingly;</li> <li>• Removed Segway scooter's model detection based on serial number. <b>Make sure to always select the correct scooter's protocol!</b></li> <li>• Added SMS/GPRS command for packet's logging - <i>scdbg &lt;arg&gt;</i>; <i>&lt;arg&gt;</i> = 1 - enable, 0 - disable;</li> <li>• Updated <i>scbuzzerctrl</i> command functionality with Xiaomi kick e-scooter;</li> <li>• Updated battery overheat detection.</li> </ul>
<b>55.00.09.Rev.1</b> <b>1.6.11_R.8</b>	2020.06.16	<ul style="list-style-type: none"> <li>• Added permanent link with the server feature</li> <li>• Implemented Solebe Y905 Bluetooth lock feature with required parameters (Lock status, Lock battery)</li> <li>• Minor changes</li> </ul>	<ul style="list-style-type: none"> <li>• Implemented permanent link with server functionality;</li> <li>• Added Solebe Y905 Bluetooth lock support;</li> <li>• Minor changes;</li> </ul>