Systems Requirements for the STS-RBM, eSTS, and nSTS Products

The STS-RBM, eSTS, and nSTS products are designed to use features unique to a group of Samsung tablets.

The Samsung Tablet requires the installation of the LAVA Tablet Manager (LTM) application, which is provided to the STS-RBM/eSTS integrator. The setup procedure for this application is described in the "STS-RBM Installation Manual" and "eSTS Installation Manual". The setup process requires a brief WiFi connection for a one-time activation of the Samsung KNOX license. The KNOX license does not require an additional fee.

The tablet must include the Samsung Knox Standard SDK version 5.1 or newer. The SDK version information is available in the tablet's "About device" information.

The STS-RBM, eSTS, nSTS products work with unrooted Samsung tablets.

The following tablets are compatible with STS-RBM, eSTS, and nSTS products:

Test Summary - Samsung Tablet with STS-RBM, eSTS, nSTS products					
Model Number	**Device Name**	**Screen Size**	**Android Version**	**Build Number**	**Note(s)**
SM-T580	Galaxy Tab A 10.1"	10.1	6.0.1	MMB29K.T580UEU1APG1	1, 6, 7
			7.0	NRD90M.T580UEU2BQL1	1, 6, 7, **9**
SM-T560NU	Galaxy Tab E 9.6"	9.6	5.1.1	LMY47X.T560NUUEU1AOK1	1, 2
				MMB29M.T560NUUES1BPL1	
				MMB29M.T560NUUEU1BQF1	
			6.0.1	MMB29M.T560NUUEU1BQF1	
			7.1.1	NMF26X.T560NUUEU1CQJ3	
SM-T377A	Galaxy Tab E 8.0"	8.0	6.0.1	MMB29K.T377AUCU2APJ2	1, 10
SM-T377P	Galaxy Tab E 8.0"	8.0	7.1.1	NMF26X.T377PVPU2CQG2	8
SM-T377T	Galaxy Tab E 8.0"	8.0	7.1.1	NMF26X.T377TUVU1BQI5	1, 11
SM-T377V	Galaxy Tab E 8.0"	8.0	6.0.1	MMB29K.T377VVRU1BPD6	1, 5
			7.1.1	NMF26X.T377VVRU1CQH9	
SM-T377W	Galaxy Tab E 8.0"	8.0	6.0.1	MMB29K.T377WVLU0APC3	1, 4
				MMB29K.T377WVLU2API2	
			7.1.1	NMF26X.T377WVLU2BQI6	
			7.1.1	NMF26X.T377VVRU1CQH9	
SM-T810	Galaxy Tab S2 9.7"	9.7	5.1.1	LMY47X.T810XXU2BOJ1	1, **12**
				MMB29K.T810XXU2CPK1	
			6.0.1	MMB29K.T810XXU2CPK1	
SM-P550	Galaxy Tab A 9.7"	9.7	6.0.1	MMB29M.P550XXU1BPF3	1, 3
				MMB29M.P550XXS1BPK1	
			7.1.1	NMF26X.P550XXU1CQI8	
SM-T350	Galaxy Tab A 8.0"	8.0	6.0.1	MMB29M.T350XXU1BPE3	1
			7.1.1	NMF26X.T350XXU1CQJ1	

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Test Summary - Samsung Tablet with STS-RBM only					
SM-T530NU	Galaxy Tab 4 10.1"	10.1	5.0.2	LRX22G.T530NUUEU1BOI2	1

The LTM Service has been verified in devices in the test summary with the STS-RBM, STS-** and eSTS products as of January 2018. LAVA only has access to models from the Canadian market and some U.S. models for internal testing. A tablet integrator must perform a verification of the tablet model and build targeted for their application. LAVA will assist in the testing of other tablets provided a sample tablet is made available. The sample tablet must be delivered with the intended build already installed.

The tablet features used by the LAVA products are not universal across the Samsung Tablet line. Samsung tailors the tablet firmware to a world region or country. Tablet versions created by Samsung for mobile carriers do not behave the same as the standard products. You must verify the behavior of the model of tablet and firmware build to be used before committing to any deployment.

The Power-over-Ethernet (PoE) models require a suitable Network Switch with PoE support. A non-PoE Network Switch can use a PoE Power Injector for each port to operate with a PoE capable STS-RBM device. A PoE Power Injector is a standard add-on available from many Network Switch vendors.

STS-RBM/eSTS/nSTS models without PoE require a USB Power Supply with a Micro USB-B receptacle. The Wall/USB Charger provided with the tablet is an ideal choice for use with the LAVA product.

Description of Notes from the Test Summary	
Note	Description
1	The tablets issue a beep when the battery modulation changes from the discharging to charging state on most tablets. The newer tablets allow the "Charging sound" to be disabled within the Sound menu. Older tablets can lower the system volume if sound support is not required.
2	The North American versions of the Tab E 9.6" tablet have been tested.. Problems have been using reported with U.K. Android 4.x.x versions of the tablet used with STS-** devices. The U.K. Android builds have not been tested with eSTS and STS-RBM products.
3	Requires tablet connection cable be no longer than 19" (50 cm).
4	The SM-T377W was tested with build MMB29K.T377WVLU0APC3. The unit tested was a Canadian model, not tied to a carrier.
5	The SM-T377V was tested with build MMB29K.T377VVRU1BPD6. Earlier builds do not work with the STS-RBM, eSTS devices, or any STS-** device. The unit tested was a U.S.Verison model.
6	The Tab A 10.1" tablet briefly disconnects attached USB accessories each time the battery modulation changes from charging to discharging. This side effect has the benefit of periodically refreshing the internal resources used by the device. Using a wider set of modulation thresholds will minimize the impact of this behavior on the user.
7	The Tab A 10.1" measure in December of 2016 could require approximately 1.5 amperes during SimulCharge operation. After allowing for the power requirements of the LAVA hardware, about 0.15 to 0.2 amperes is available for user-provided USB accessories.
8	The SM-T377P was tested with a special pre-release build of the firmware tested in August 2017. Earlier versions charged at a very slow rate.
9	The initial release of Android 7.0 for the Tab A 10.1" (SM-T580) was not compatible with the enhanced features of the eSTS product due to problems in the Samsung KNOX Standard SDK. The tablet received the update to Android 7.0 in

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	early-2017. The bug was fixed only for select markets in the final weeks of 2017. The North American models are known to be fixed. Only select countries in Europe received the update. Please contact LAVA for additional details. All versions of the tablet tested, work with nSTS-** and original STS-** products.
10	The Tab E 8.0" AT&T (SM-T377A) model has been tested with Android 6.0.1. As of December 2017 the most recent version of firmware for the tablet is based on Android 6.0.1. The firmware build MMB29K.T377AUCU2APJ2 was fully compatible with the STS-RBM and eSTS product family.
11	The Tab E 8.0" T-Mobile (SM-T377T) model has been tested with Android 7.1.1. The Android 7.1.1 (build NMF26X.T377TUVU1BQI5) is fully compatible with the eSTS, nSTS, and original STS-** product family. The tablet comes with Android 6.0.1 (build MMB29K.T377TUVS1APL1) out of the box. The Android 6.0.1 firmware is not compatible with the eSTS, nSTS, or STS-** product family and must be updated to Android 7.1.1.
12	The Tab S2 (SM-T810) and related models received an update to Android 7.0 in the spring of 2017. The Android 7.0 update introduced a bug in the Samsung KNOX Standard SDK which resulted in the tablet no longer being compatible with the enhanced features of the STS-RBM and eSTS product family. The bug is known to have been fixed in at least one 8.0" version of the Tab S2 family (using build NRD90M.T710XXU2DQI6); however the majority of the models never received the update. All known versions of the tablet continue to work with nSTS-** and original STS-** products.