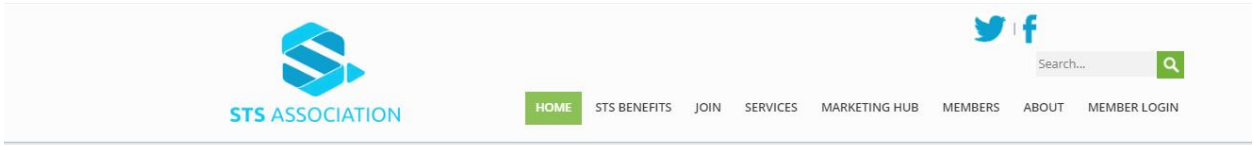
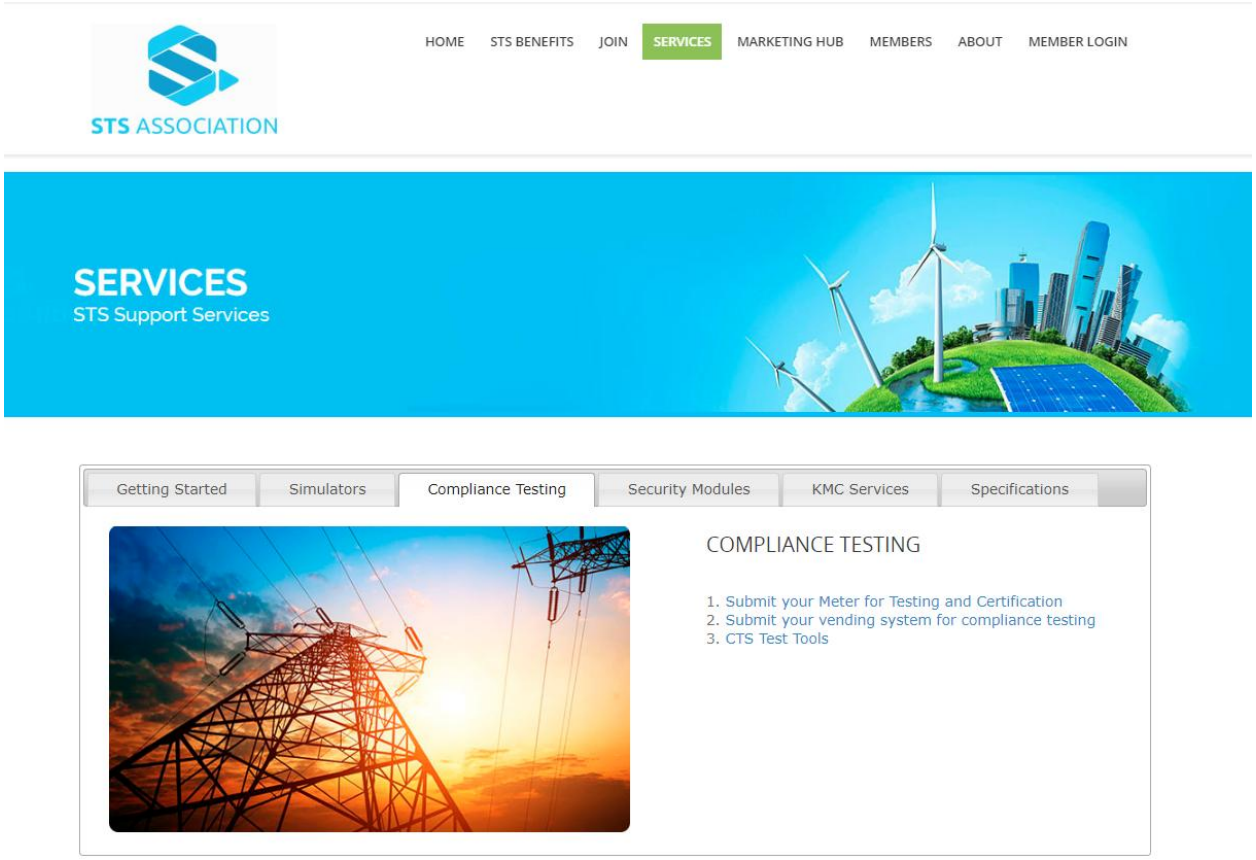
Process for submitting a system for STS certification

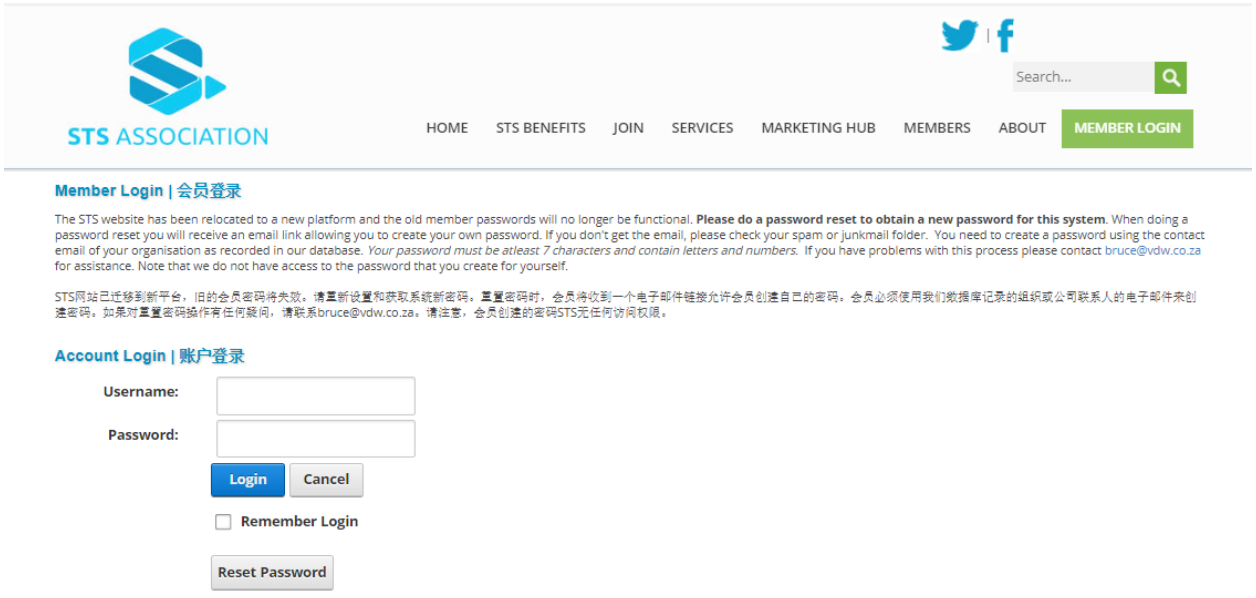
1. Visit the STS website at www.sts.org.za



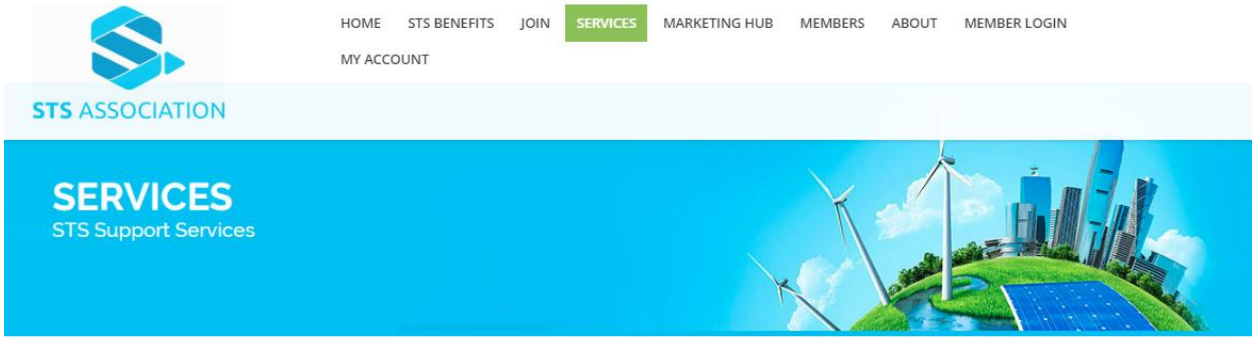
2. select the 'Services' tag and then the 'Submit your meter/POS for testing and certification' (option 1 or 2)

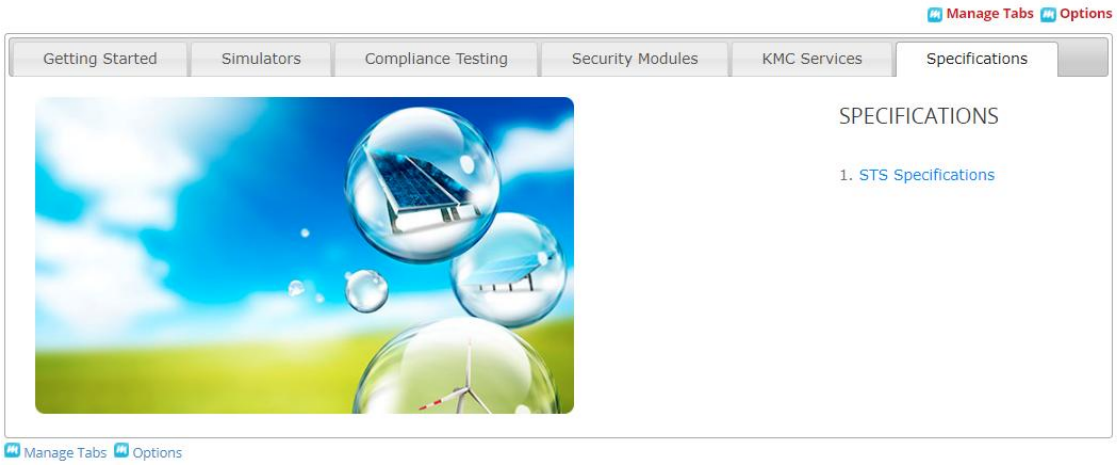


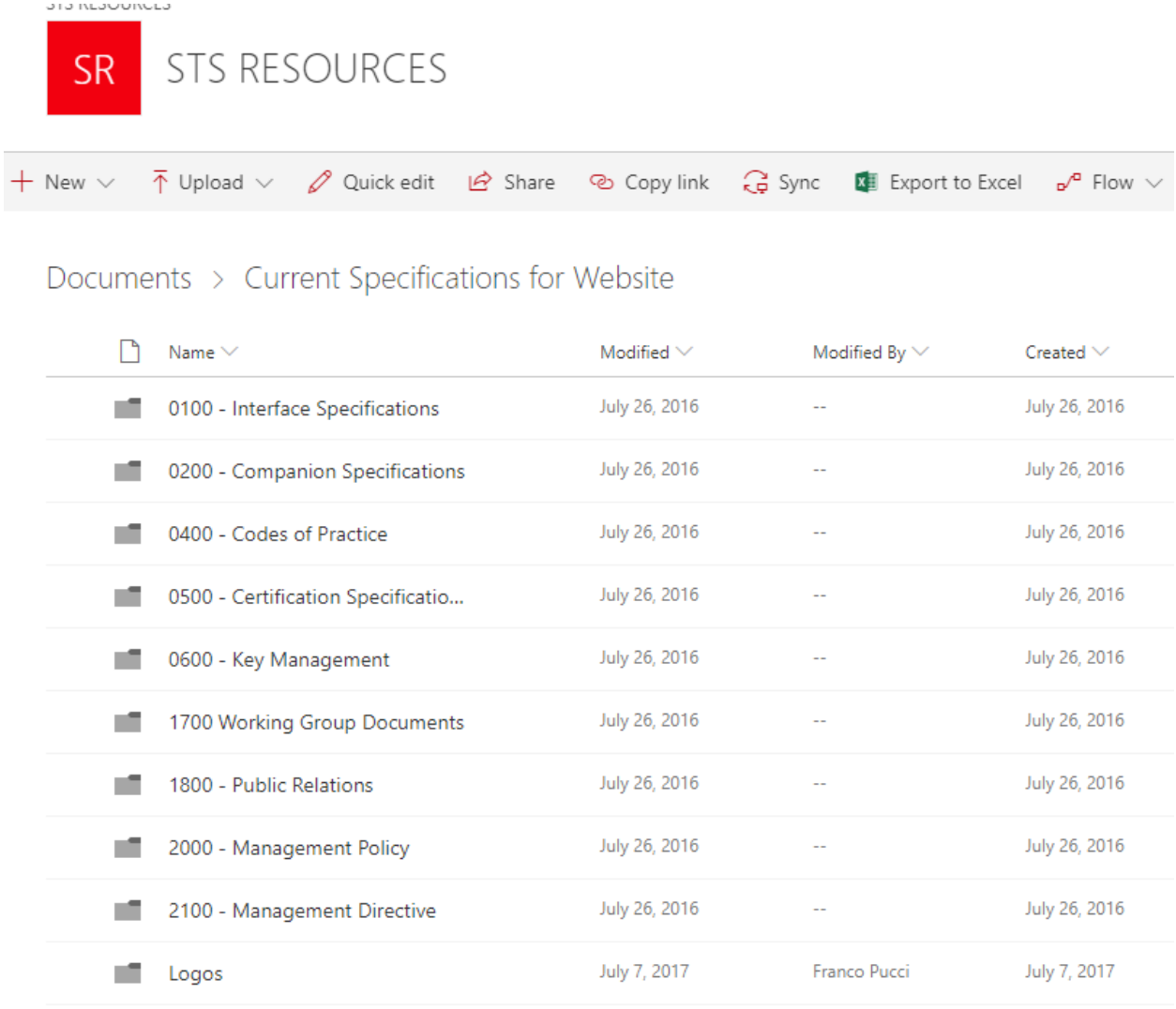
3. complete the Login process



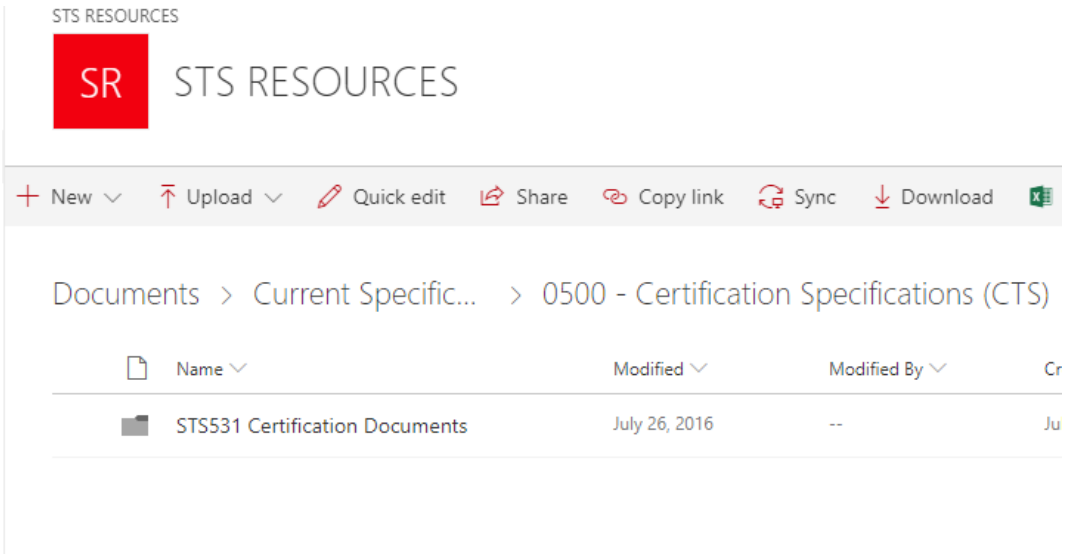
4. Download a copy of the CTS test specifications if you have not previously done so. These are the STS531 set of documents found under the Specifications/STS Specifications, in the 0500 Certification Specifications folder.







Then look in the STS531 Certification Documents folder for the latest edition of the documents.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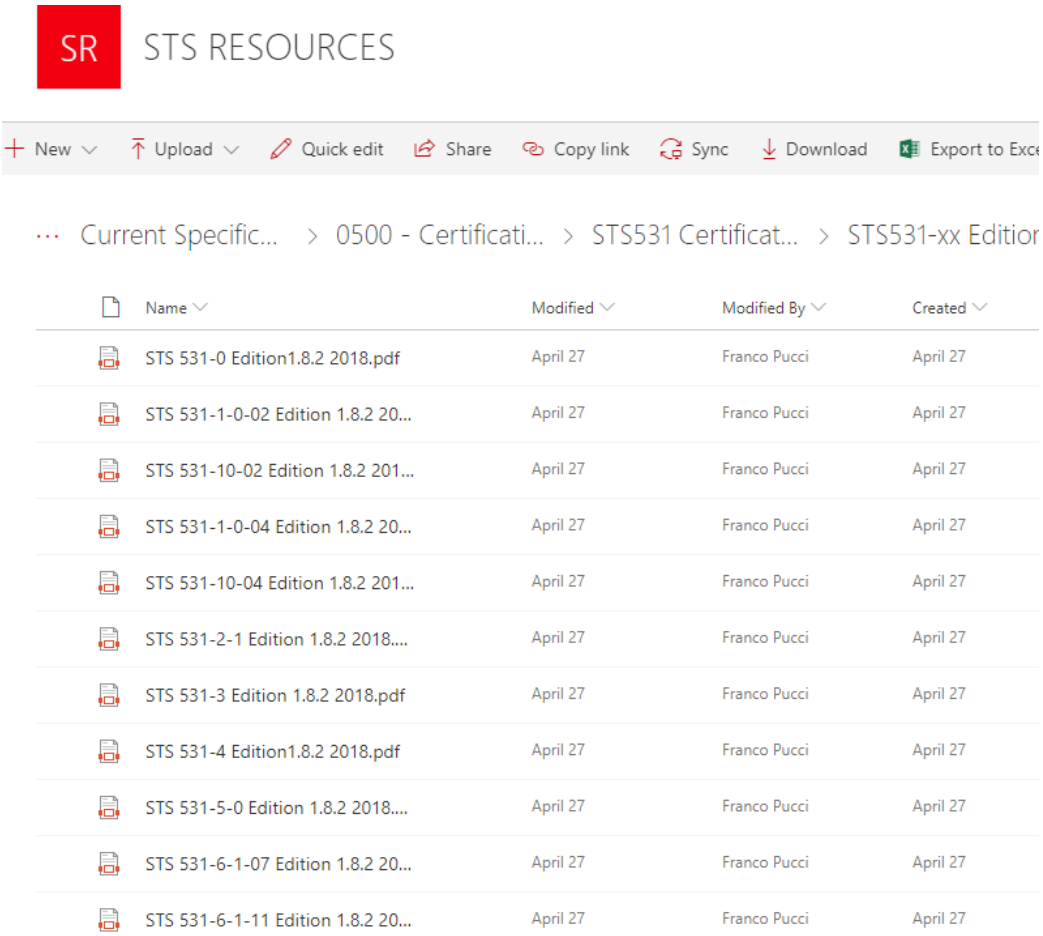
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STS 531-6-1-11 Edition 1.8.2 20...
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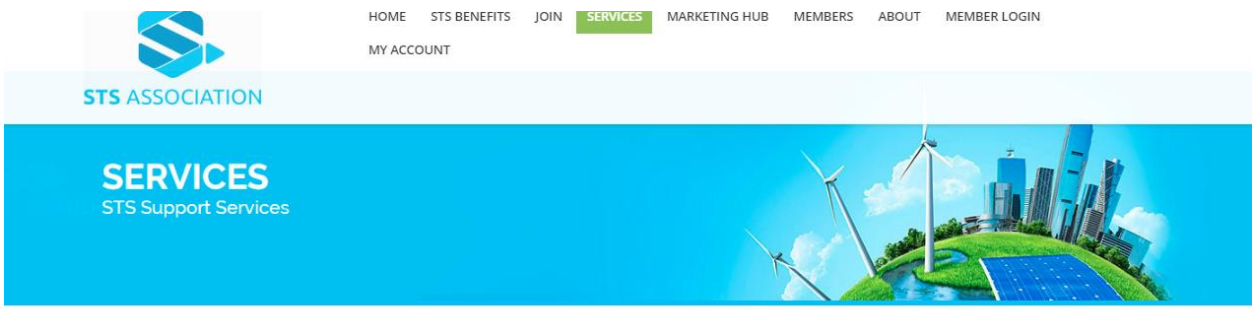
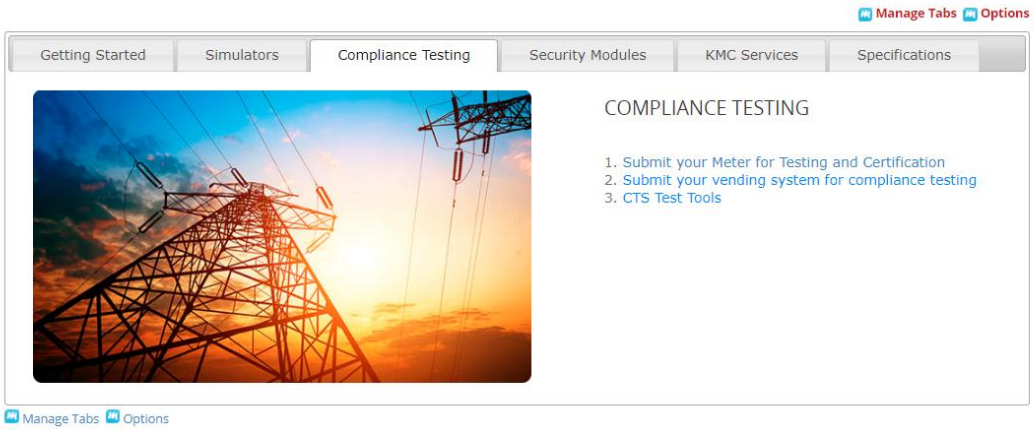
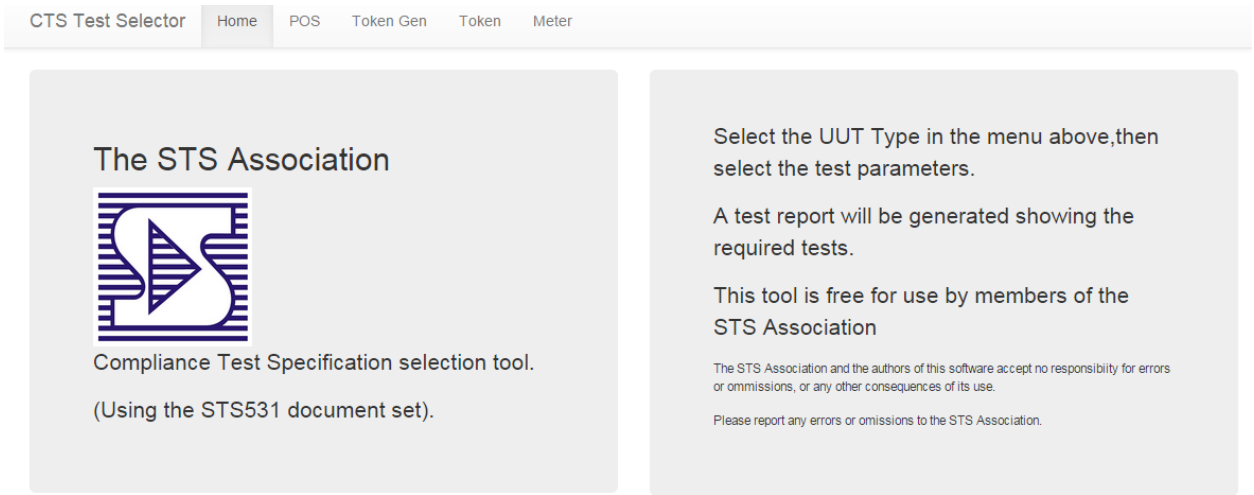
5. Test your meter/POS according to the specifications before submitting the meter or vending software for certification. To see which tests/documents you need to use for your meter/vending system, go to the CTS Test Tools link:

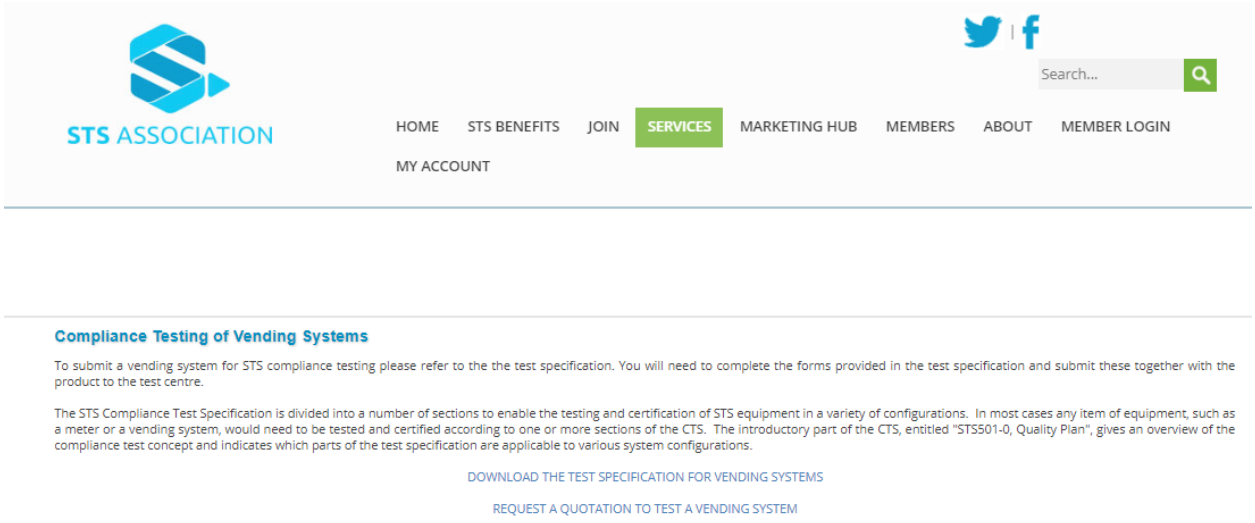




This tool allows you to select which product you wish to test, along with which options your product supports. The tool will then generate a report showing which documents, and which tests, are relevant for your product for certification.



6. Once you have tested your product for compliance, you may then complete a STS Test centre services order form (Request a quotation to test a Vending System or Meter)



7. Complete the order form

You will receive an email with the quotation for the testing.

8. Select a test house to submit you product to.

9. Prepare 7 meters (or one vending system) as specified in the CTS test documents. These parameters are specified at the front of the CTS test documents under 'Equipment to be submitted'. Note that each entity type to be tested will have different requirements. So for example, a payment meter will be tested according to the requirements for an Entity type D, E, and F. This means that the documents required will be STS531-4, STS531-5-0, and STS531-6-1-07 (for EA=07) or STS531-6-1-11 (for EA=11). Each of these documents will have a section entitled 'Equipment to be submitted' indicating the setup and quantity of meters to be submitted. A sample is shown below:

3.3.2 Equipment to be submitted

The following equipment is required for certification for meters supporting EA=07:

1. 3 Meters loaded with following DITK: $FFFFFFFFFFFFFFFF_{16}$. The meter's entire TID stack shall be preloaded with the TID $5A45A1_{16}$; this TID corresponds to the token issue date and time of 2004-04-01 09:05. The meters shall be referred to as UUT01, UUT02, and UUT03.
2. If the payment meter stores its manufacturing date in non-volatile RAM and uses this to determine the validity of a token, then the meters submitted must have this date set to 1st January 1993 00h00.
3. **The meters, labelled "Entity Type E - UUT01-07, UUT02-07, and UUT03-07" , shall have zero credit loaded.**

The following equipment is required for certification for meters supporting EA=11:

1. 3 Meters loaded with following DITK: $FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF_{16}$. The meter's entire TID stack shall be preloaded with the TID $5A45A1_{16}$; this TID corresponds to the token issue date and time of 2004-04-01 09:05. The meters shall be referred to as "**Entity Type E - UUT01-11, UUT02-11, and UUT03-11**".
2. **All meters shall have zero credit loaded.**

10. Mater Marking table:

Labels for the submitted meters are shown below:

Entity types and related documents

Entity Type	Product type	CTS test document	Description
D	Meter (all utilities)	STS531-4	Meter - TCT=01 or TCT=02
E	Meter (all utilities)	STS531-5-0	Meter - TCT=01 or TCT=02
F	Meter (all utilities)	STS531-6-1-07 STS531-6-1-11	Meter using EA07 Meter using EA11

Setup values - meters supporting EA07

The TID value in all the meters must be 0x5A45A1

Entity type	Meter labeled	Key (DITK)	Credit loaded in the meter sample	Document
D	D - UUT01-07	FFFFFFFFFFFFFFFF	Full credit that the meter supports	STS531-4
E	E - UUT01-07	FFFFFFFFFFFFFFFF	Zero credit	STS531-5-0
E	E - UUT02-07	FFFFFFFFFFFFFFFF	Zero credit	STS531-5-0
E	E - UUT03-07	FFFFFFFFFFFFFFFF	Zero credit	STS531-5-0
F	F - UUT01-07	1111111111111111	Zero credit	STS531-6-1-07
F	F - UUT02-07	1111111111111111	Zero credit	STS531-6-1-07
F	F - UUT03-07	1111111111111111	Zero credit	STS531-6-1-07

Setup values - meters supporting EA11

The TID value in all the meters must be 0x5A45A1

Entity type	Meter labeled	Key (DITK)	Credit loaded in the meter sample	Document
D	D - UUT01-11	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	Full credit that the meter supports	STS531-4
E	E - UUT01-11	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	Zero credit	STS531-5-0
E	E - UUT02-11	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	Zero credit	STS531-5-0
E	E - UUT03-11	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	Zero credit	STS531-5-0
F	F - UUT01-11	11111111111111111111111111111111	Zero credit	STS531-6-1-11
F	F - UUT02-11	11111111111111111111111111111111	Zero credit	STS531-6-1-11
F	F - UUT03-11	11111111111111111111111111111111	Zero credit	STS531-6-1-11

Complete the annexures at the end of the CTS test documents and send them to the selected test house, along with the product manuals. A sample of an annexure is shown below (for a vending submission).

6 Annexure A.1 – Entity A Additional Information

Table 2 - Entity A Supplier Submitted Information

1.	Manufacturer:		Submission Date:		
2.	Model:		Version Number:		
3.	TCTs supported::	01	02	(Tick what is applicable)	
4.	Is Key Rollover Supported	Yes	No		
5.	Is Key Expiry Supported	Yes	No		
6.	Is Date Of Expiry Supported	Yes	No		
7.	Is Algorithm DKGA04 and EA07 Supported?	YES	NO		
8.	Manufacturer confirms that Class2 reserved for propriety use tokens are NOT available on the POS.	Signed:			
9.	Manufacturer confirms that the POS is anabled to generate tokens for all STS manufacturer numbers, and that there is no possibility of excluding any manufacturer number.	Signed:			
10.	State which Utility is Supported	Electricity	Water	Gas	Time
11.	State which Currency is Supported	Electricity	Water	Gas	Time

11. Submit the product to the test house.

12. Clearly state if your samples will be collected by your company after the test or if they may be destroyed by the test house. Remember that no tests will be done and no certificates will be issued until payment is made for the certification testing.