

AUTOMATED TEST STAND

for testing GNSS receivers



ADHERENCE

Full and strict adherence to the testing methodologies



MANAGEMENT

Electronic Records Management



SPEED

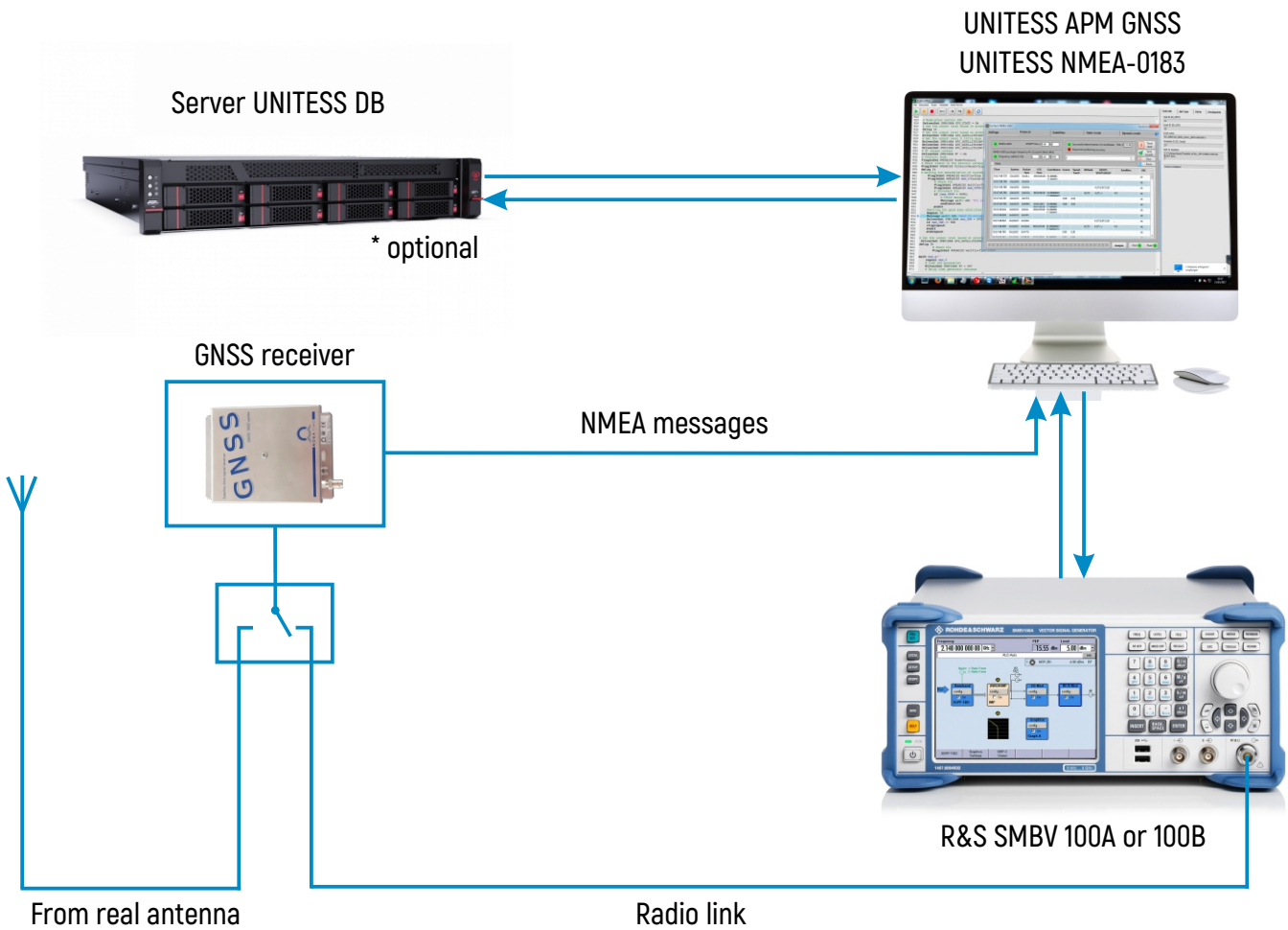
Significant increase in the speed of work



UNITESS

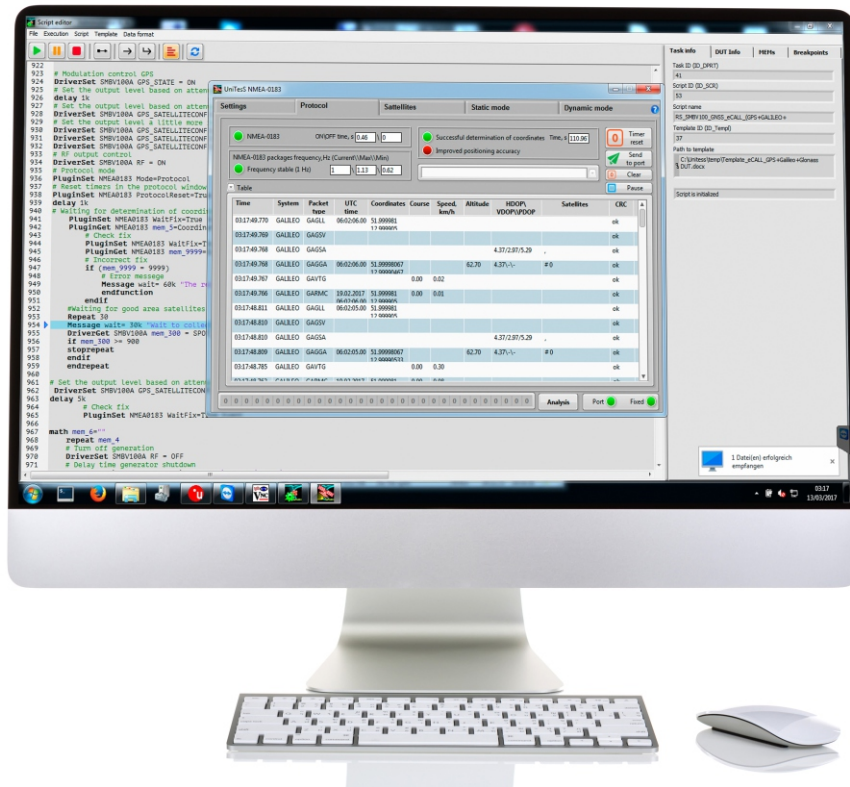
Test & Measurement Automation

Workplace structure



UNITESS APM GNSS – automated workstation for testing GPS/Galileo/GLONASS receiver as a part of ERA-GLONASS in compliance with standards GOST 33471-15 (55534-13) and as a part of eCall tests - EU Regulation 2017/79 and UN Regulation N144.

UNITESS APM GNSS can be used as full-compliance and pre-compliance decision and allows to pass the procedure confirmation of compliance with the minimum possible effort.



The testing parameters

- module's working ability, frequency and correctness of issue NMEA-posts;
- error in determining the coordinates in static modes;
- error in determining the coordinates and speed in dynamic mode;
- determine the time of the «cold» start;
- recovery time after tracking failure due to a temporary lack of signal;
- determine sensitivity of the navigation receiver in search and holding signal mode;
- check autonomic control system;
- determine the minimum cut-off angle of the satellites;
- determine module's shutdown time.

Program features NMEA-0183

- parsing and logging NMEA messages from receiver;
- measurement protocol's time parameters;
- determine level of the received signals from the satellites in real time;
- calculaty errors in determining the coordinates in dynamic and static modes;
- allows to provide tests in automatic mode using UNITESS APM and specially developed script.



UNITESS APM GNSS fully automatically conducts testing of navigation receivers, excluding the human factor, and of the large number data to be processed and the necessary calculations, is virtually, the only appropriate method conducting such tests.



Tester working place



For work UNITESS APM GNSS required vector generator ROHDE&SCHWARZ SMBV-100A/B with necessary options*.

UNITESS APM GNSS controls the simulator satellite navigation signals R&S SMBV100A/B, takes NMEA stream from the receiver and calculates the necessary parameters by the procedures of standards.

* depends on type of work equipment and standards



GNSS signal simulator- R&S SMBV 100A

Window view UNITESS NMEA-0183



Window view UNITESS ARM GNSS with open script



Calculating error in static mode



The reference points in dynamic mode



Based on the conducted tests results UNITESS system automatically generates test report in a specified form with the conclusions of conformity given sample.





Overall UNTESS helps you to improve the quality and speed of services, attract new customers and, as a consequence, will bring additional profit.

The package UNTESS APM GNSS includes:

- installation at customer
- training in operation;
- consultations on GOST 33471 or eCall standarts;
- support.

If you are interested in UNITESS system or have any questions, you can contact us.

REQUEST A DEMO

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