



Energize your e-Mobility

Sleep well, MORPHEE[®] is working for you

For more than 30 years, MORPHEE® has been an established international reference for realtime automation of test cells under Windows. Being reliable, powerful, open and scalable, MORPHEE® controls the test cells as safely as it can be.

MORPHEE®4 Now Available!

Windows 11 compliant
New langage available: Python
Remote Management of your tests from your web browser with REST API
Enhanced real-time performance with RTX4

At the beginning, MORPHEE® was created to allow its creator to sleep well at night. Hence the name of the Greek divinity of sleep. MORPHEE® became the first test benches automation software developed under WINDOWS OS in real time. And it was a revolution compared to the big stations used at this time.

Now, world has changed. Today, the electrification became the major challenge of this time because of the environment awareness. The Software & Testing Solutions (STS) AUSY has evolved to electrification. And today, as yesterday, MORPHEE® is a revolution.

With MORPHEE®, energize your automation!

What is MORPHEE®?

A unique system

Real-time measurements acquisition, calculations and storage including Monitoring of parameters & post-mortem data

Execution in real time of test sequences including control of actuators and management of external devices

Real time execution of models MORPHEE® Lab and Lab-RT offer the flexibility of MORPHEE® for simple component and subcomponent test beds

Automate your ideas

Design your test sequences, acquisition schemes, dashboards

Develop by yourself interfaces to external devices

Customize the look and feel free to fit your exact need

You can do most evolutions by yourself without spending more money for service

More than automation

Simulation in real time with direct interaction with test cell input / output

Calibration of ECU parameter based on UUT modelization (MBC)

MORPHEE® harmonizes with your benches

Application based on STS knowledge From Internal Combustion engine to Electric Drive Unit Integration of devices from the market Apply new features according to your new tests without losing the initial configuration

Five editions for all types of test cell



Desk

Dedicated to application development purposes. It can also be used to run Test Cell Simulators or non-real time application, using mainly serial or Ethernet interfaces.



Lab

The entry level of simple automation, featuring all standard MORPHEE functions as well as most of interfaces and protocols (including EtherCat). This Edition is not real time (windows based).



Lab-RT

The entry level of hard real time automation, perfectly suitable for most of e-mobility applications, such as Fuel Cells and Battery testing. $> 5,000\,RT$ channels @ 2 kHz



Bench

Hard real time for all kind of Engine, Transmission or Powertrain test cells, including dedicated automotive protocols and interfaces. > 5,000 RT channels @ 2 kHz



Bench-xCU

Designed for cutting-edge R&D test cells, with most advanced features for managing parameters of complex units like xCUs and control them dynamically. > 5,000 RT channels @ 2 kHz

More than automation

"MORPHEE® Software Edition is a unique suite of tools allowing to design and execute in real time all kind of automation process in a complete secure way under Windows 10"

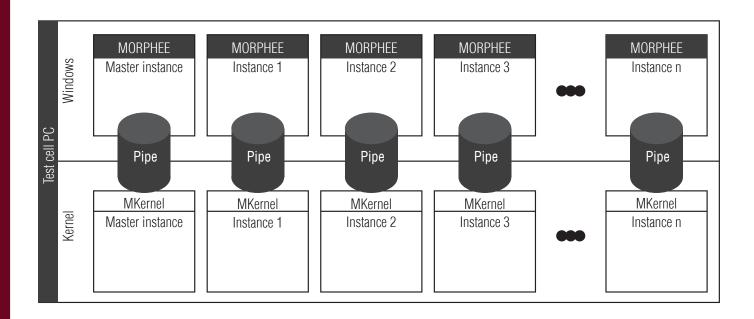


In order to meet the growing need for multi-UUT testing, especially in the field of battery, and after many feasibilities, STS has developed a new MORPHEE® multi-instance concept.

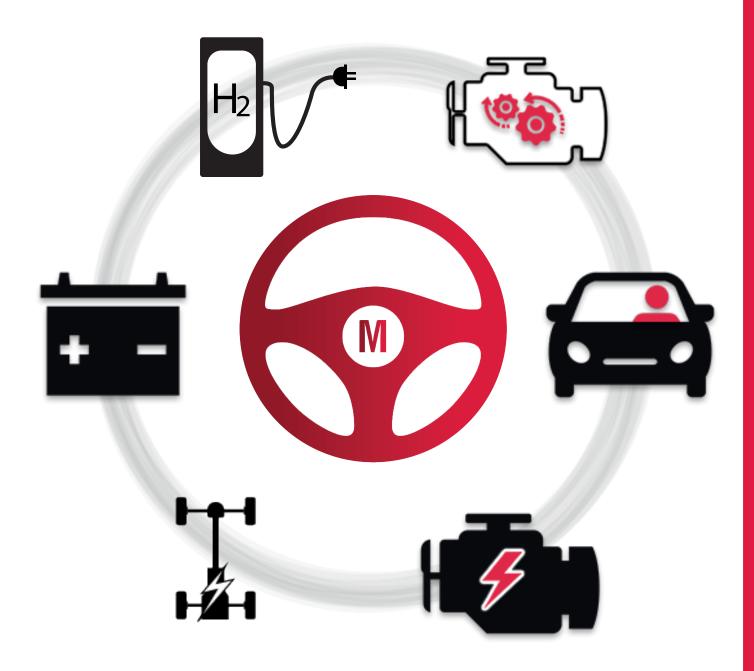
Based on this, it is now possible to run several MORPHEE® on the same computer. The first instance is seen as the 'master instance' (or main instance).

It can be used to orchestrate all the other instances, to centralize hardware, share channels and distribute events.

All others instances are completely independent and can perform test in real time using own channels, screens, alarms, methods, etc...



Still a revolution...



...MORPHEE® harmonizes with your test benches

The link between framework and test cell products

SCALE

Standard and Configurable Application for Laboratory Environment

SCALE is the condensed STS knowledge integrated in a central State Flow, correpsonding to the most adapted way to manage UUT at the test cell in a complete secure way. It also manages

all links and acquisition from SCALE equipment, whatever they are.

SCALE is adapting MORPHEE to all types of test benches:





SCALE BATTERY

The essential element of new transportation area. In constant evolution, the battery testing has to be reactive!



SCALE EMOTOR

Adapt your test benches and working methods to new market trends. E-mobility is more than ever a reality!



SCALE ENGINE

The state of the art for all of your thermal and hybrid engine test benches. From End-Of-Line to Research & Development solution.



SCALE FUEL CELL

The new trend for power generation in modern vehicles. Tomorrow's ideas have already a SCALE solution today.



SCALE POWERTRAIN / EPOWERTRAIN

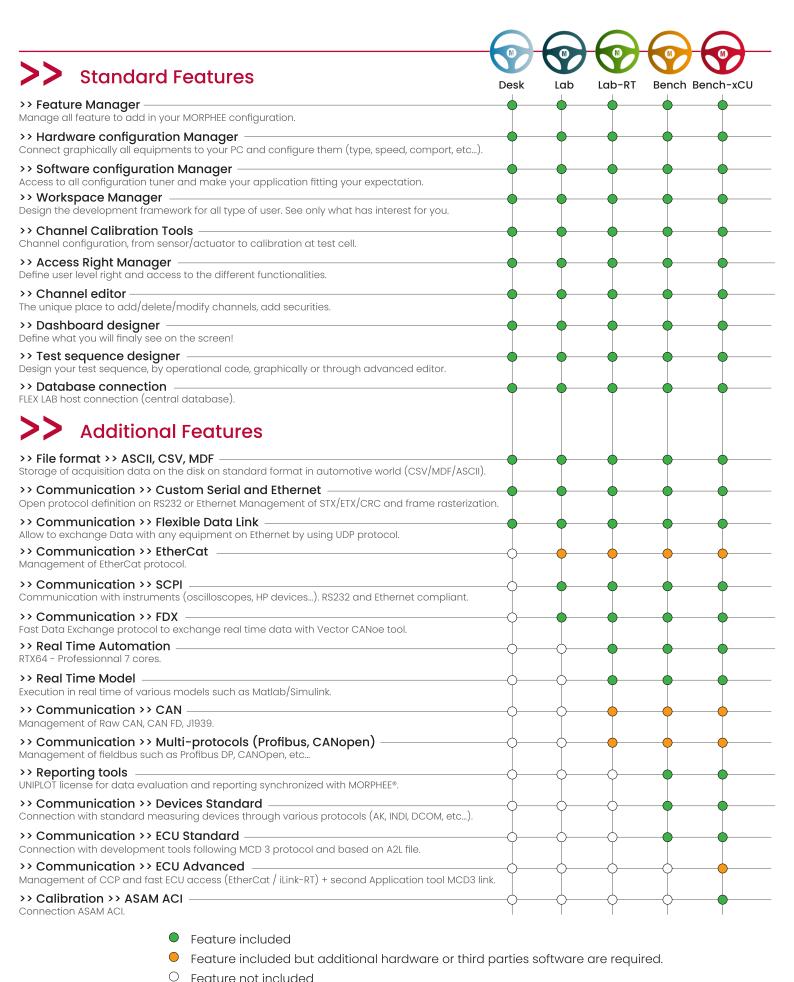
Testing the complete powertrain in its conventional, hybrid or electrical configuration is now possible. From 2 to 4 outputs.



SCALE VEHICLE

Whatever the type of propulsion, the complete vehicle test is the last step in the validation process. Keep the benefit of the previous SCALE configuration used and easily cross-check your results.





Are you interested in innovative, pioneering software solutions?

Contact us!

Software & Testing Solutions www.fev-sts.com | test-systems@fev.com

