

ORION

Test Automation Software

A&D
Discover Precision

Reduces Test Development Time by Optimizing Test Cell Utilization

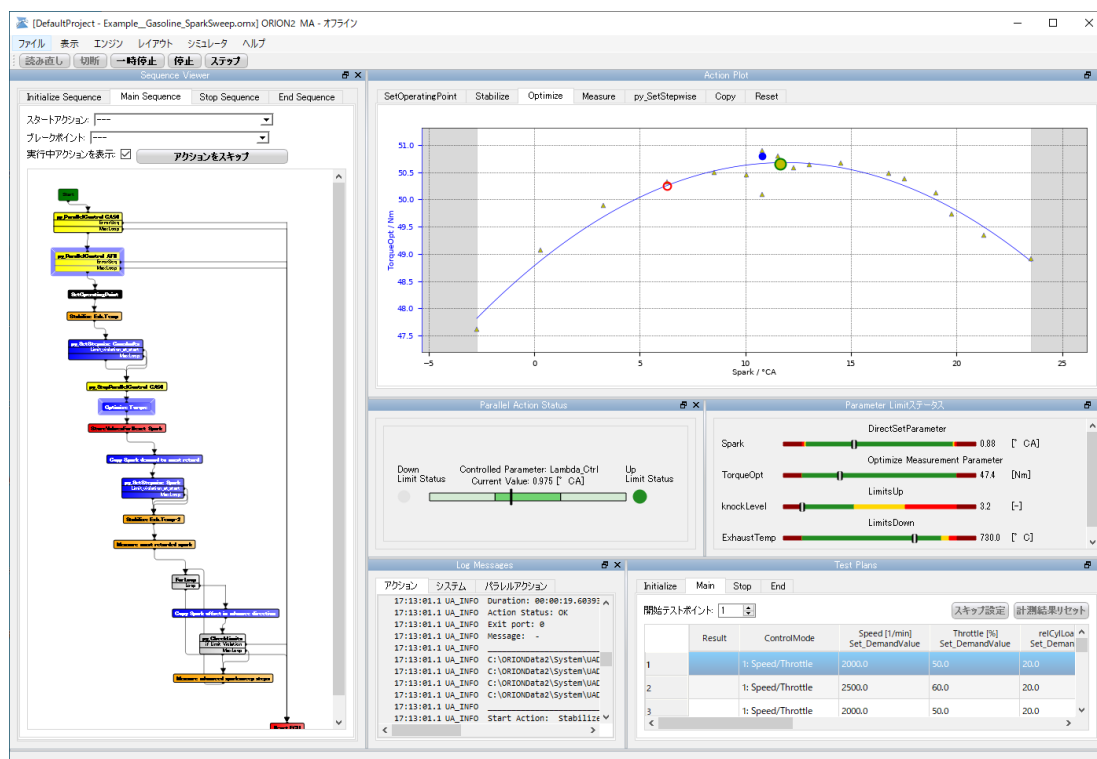
ORION test automation software allows for automated testing during time periods that typically unused like nights and weekends which shortens the total test period.

Test automation

The operation performed by the operator in test cell can be replaced with the test flow. The test flow is flowchart that is configured with connecting Actions (functional block).

Various actions are available, such as controlling dyno, changing Control Unit parameters, and sending commands to the measurement devices. Since the processes of the function are completed in one Action, it is easy to build the test flow.

The Actions for changing the parameter have functions to avoid the limit violation. For example, when a knock error occurs while changing parameters, Actions work to avoid the error automatically. This allows the test to continue safely even if no one in the test cell.



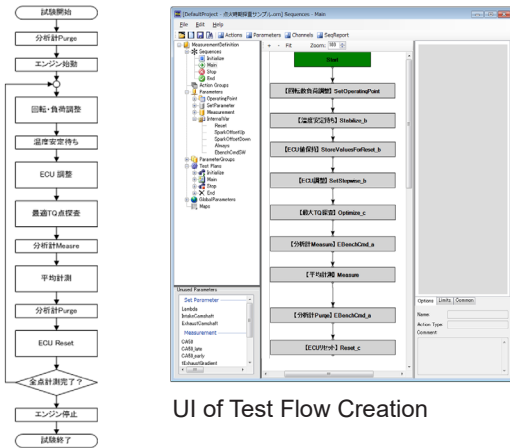
A&D will support your test automation by helping create test flows and providing technical support

Features

- A Calibration test can also be automated
- Graphical UI for test flow creation
- Variety of standard Actions
- Create your own Actions
- Abnormal state avoidance function
- iLink-RT support
- Automatic update function
- Separate test creation tool and execution tool allows for preparation of the next test in the design room during the test in the test cell
- Easy to install into existing test cells
- Licensing
 - Standalone license: PC fixed license
 - Network license: Share the license with PCs on the same network

Test Flow Creation

Creating test flow with connecting blocks that are the same granularity as the operation



Flow Chart of Manual Operation

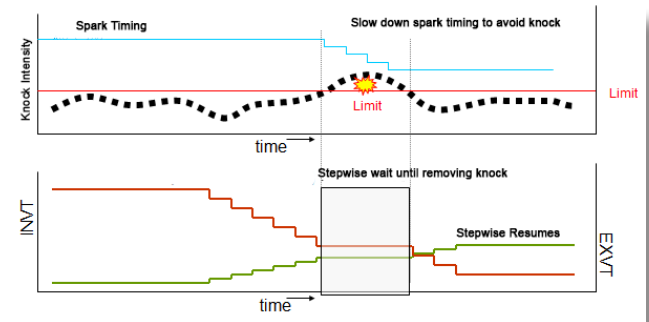
Actions

Approx. 50 standard Actions

SetOperatingPoint	Throttle/Speed Adjustment
SetIndirect	Adjusting parameter that can't be controlled directly
Optimize	Find the optimal parameter value
EBenchCmd	Change the mode of the emission bench
ParallelControl	Adjust background parameters to keep selected measurement values stable
IfError	Branch the Flow Test
Reset	Reset the parameter value
Use Defined Action	You can also use the included UAD software and the Python editor to create your own Actions.

Avoid Abnormal State

In the event of an abnormality such as knocking, it is possible to avoid dangerous conditions and continue the test under safe conditions. After detecting an abnormality, it can react to the ECU in 10 msec at the fastest, so it can respond to urgent abnormalities such as pre-ignition.



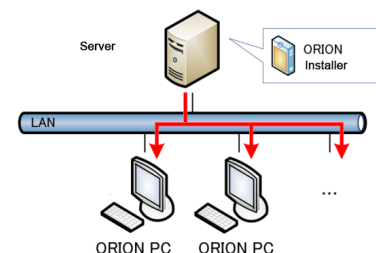
Log Analyzer

A standard tool for analyzing ORION logs is provided. analyze the logs to see the details of the test flow.



Automatic Update Function

ORION is automatically upgraded with the installer saved on the server.



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