ZD Test Automation



知迪汽车技术 ZD Automotive

ZD Test Automation Solution

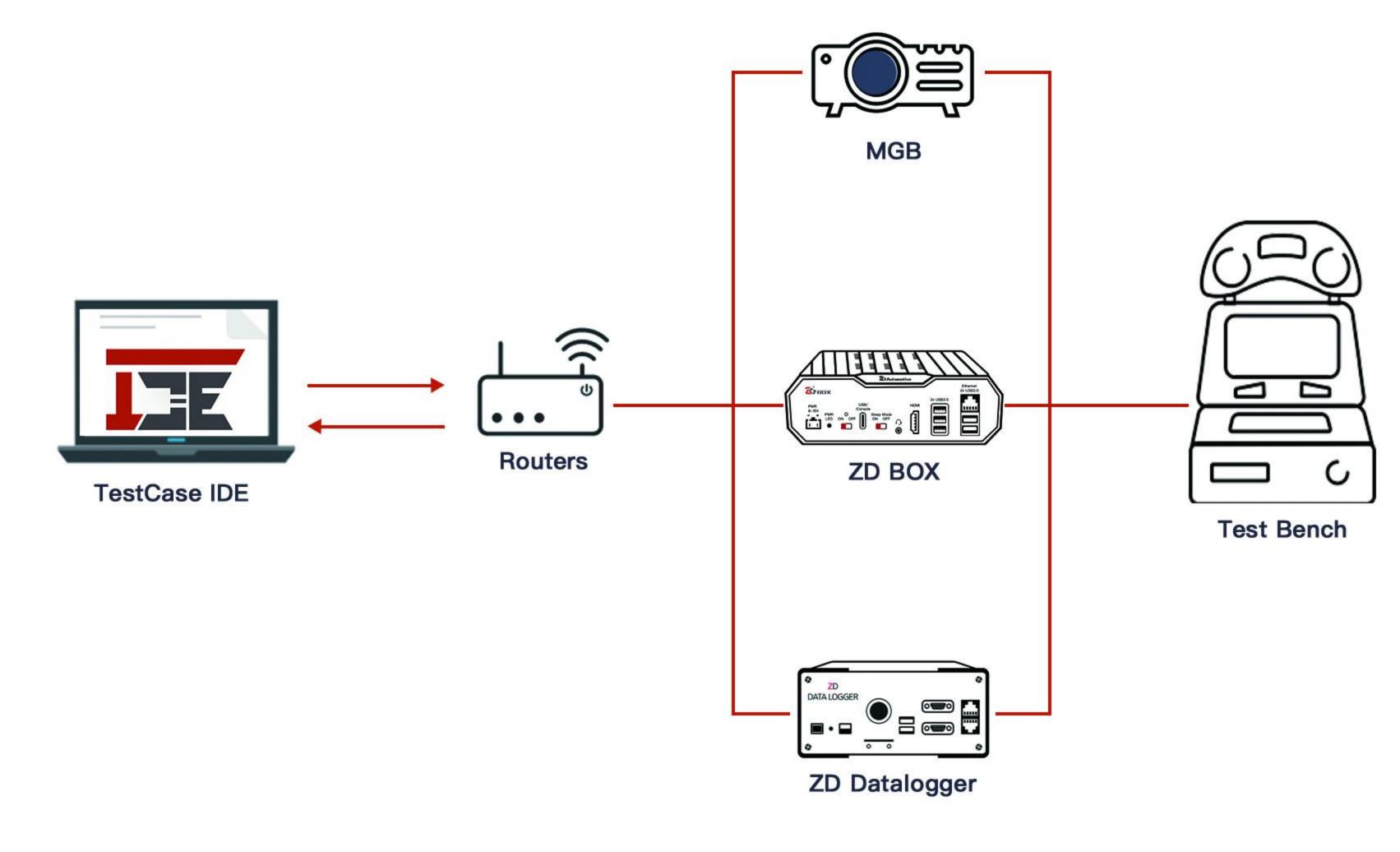
As one of the most required services for OEMs, test automation has become an essential part in many of our products and services thanks to its excellent efficiency and reliability. Our expertise in test automation covers various systems in automotive industry. We have complete systems and processes from test execution, test design to test analysis, which covers both individual functions and module integration of the entire vehicle system.

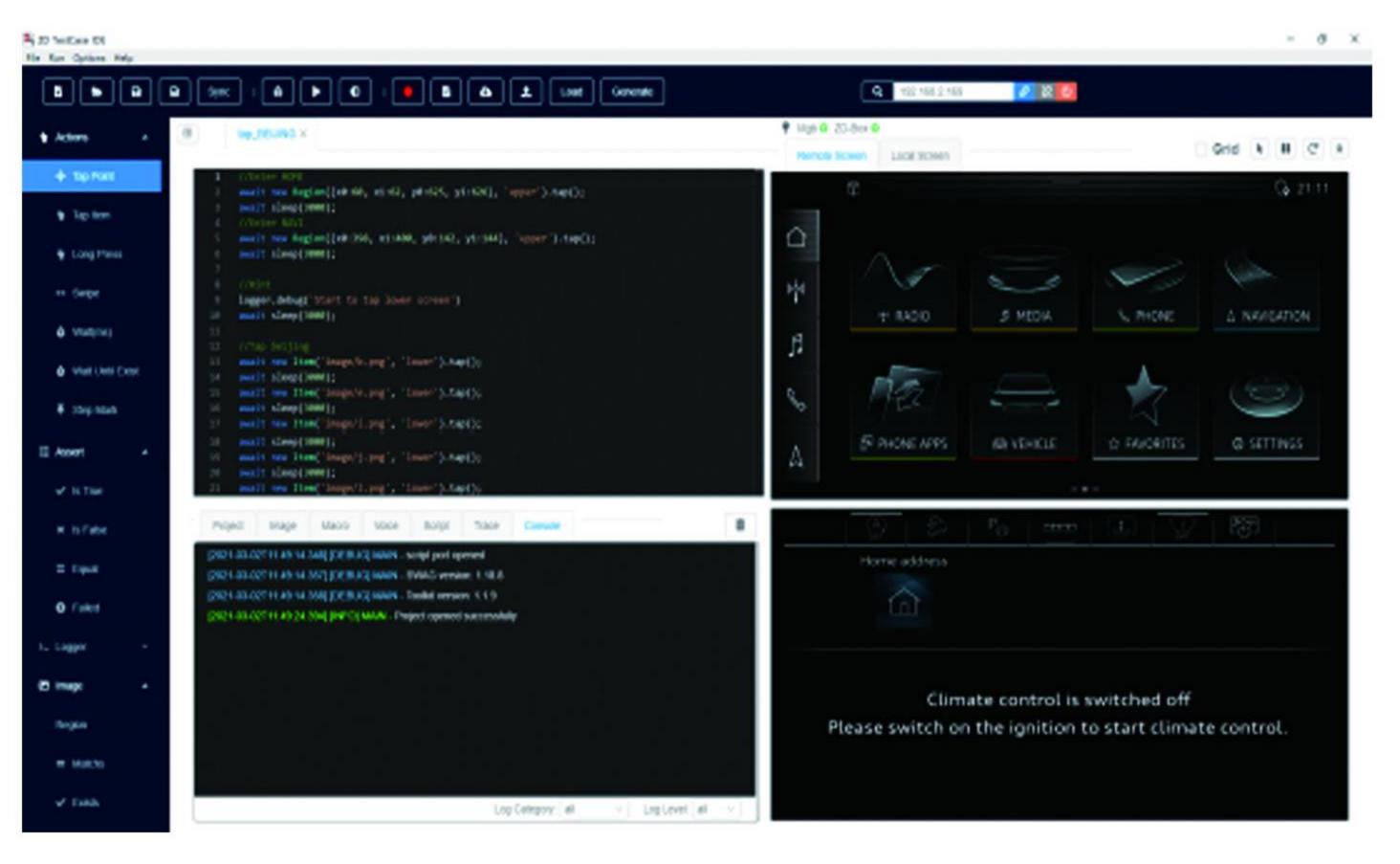
Furthermore, the flexibility of our solution makes it adaptable for most application scenarios in the vehicle test.



Development Environment – ZD TestCase IDE

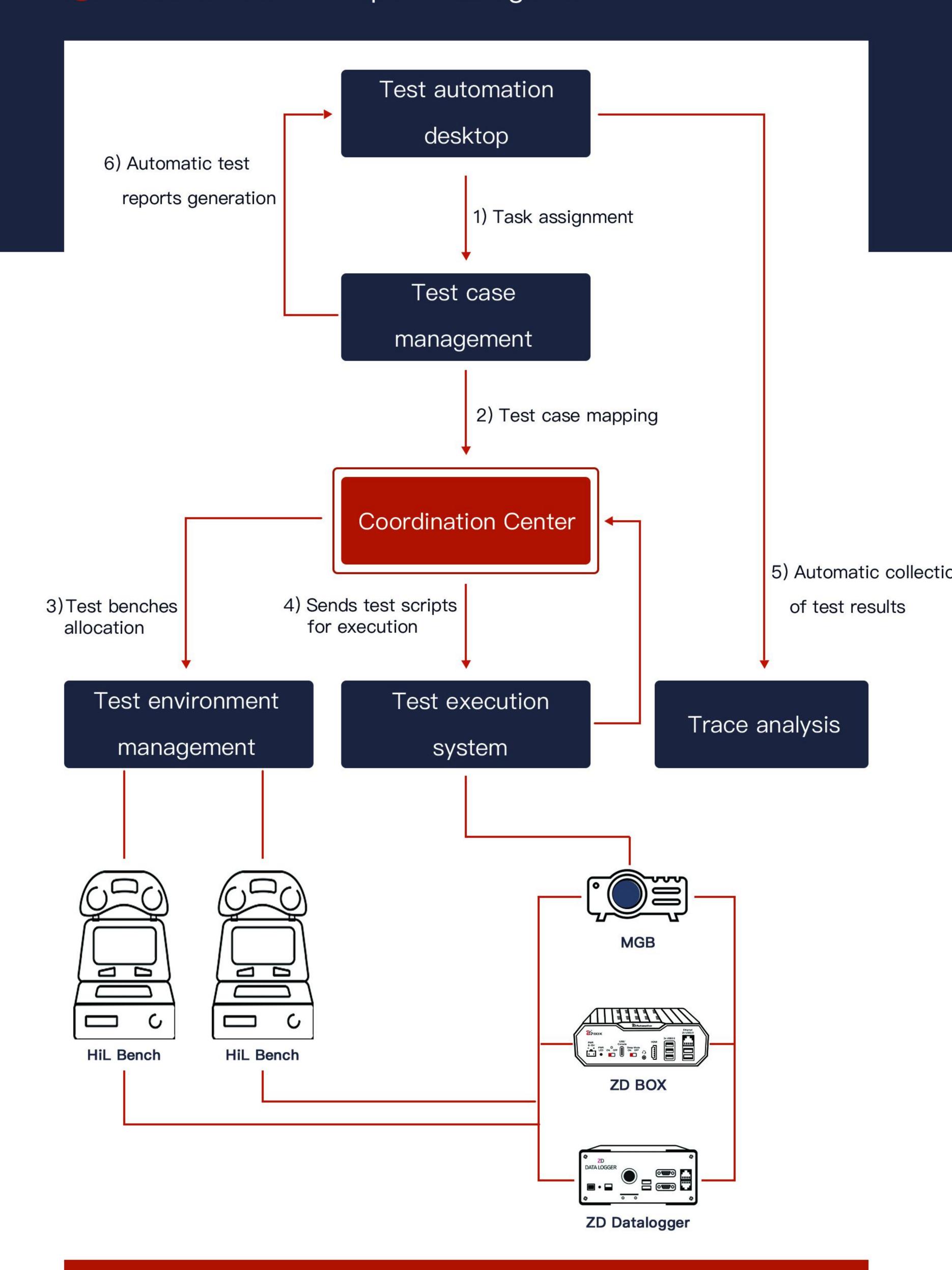
- Test automation scripts based on JavaScript
- Remote control of test benches
- Generatation of automation scripts by recording & playback
- Integrated text recognition, image recognition
- Static syntax check, version control & specific code suggestions
- Generation of test scripts via text editor or GUI





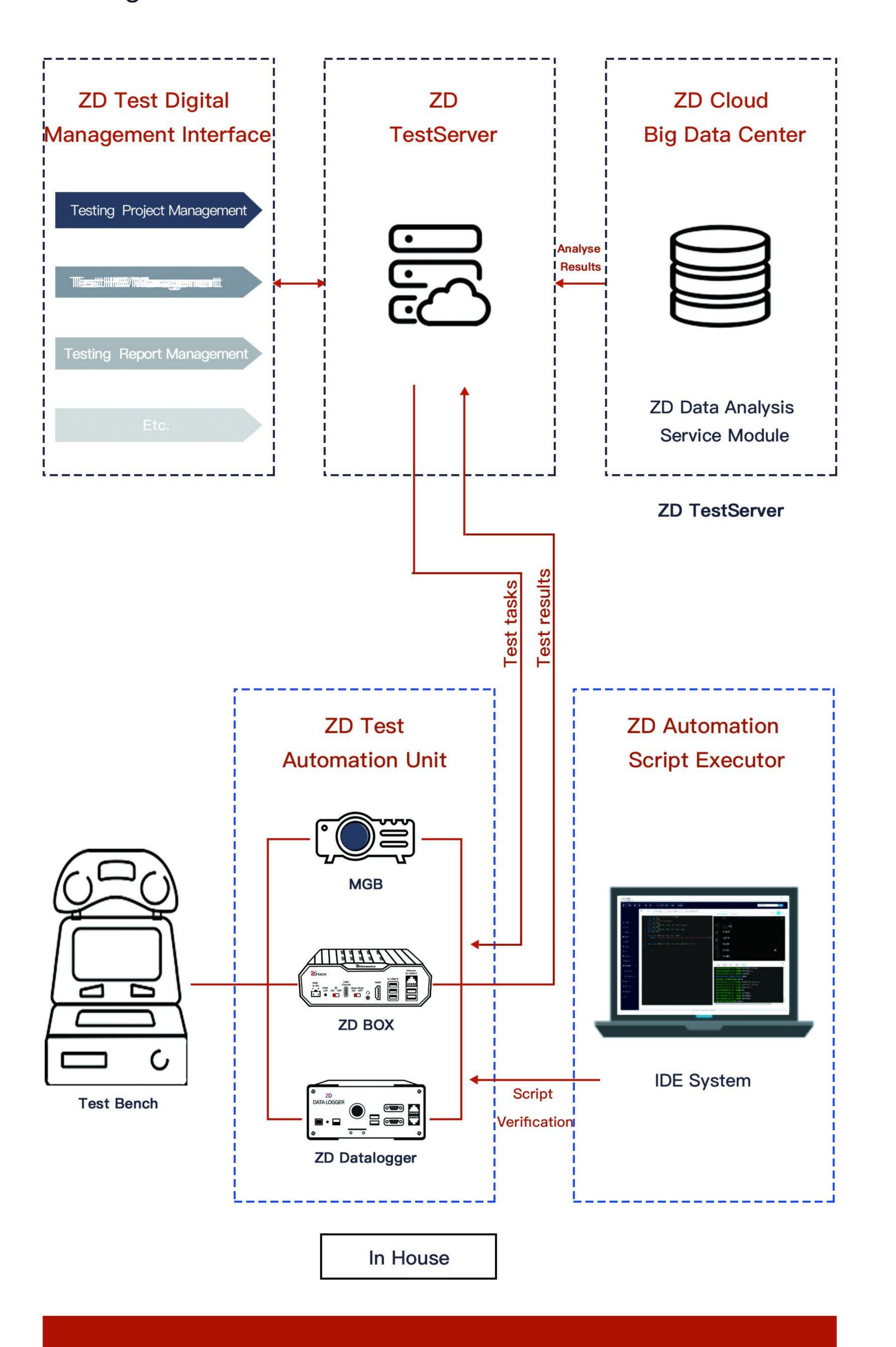
7*24 Test Automation Control Center — ZD TestServer

- 1 Test case and script management
- 2 Test bench management
- 3 Test task management
- 4 Concurrent task execution schedule
- 5 Test results and report management



Cloud-based Test Automation Lab — ZD VirtualLab

- Test case management Intelligent assignment of test cases
- Dynamic allocation of test benches
- Automatic generation of test reports
- Automatic analysis of test results
- Integrated test automation dashboard



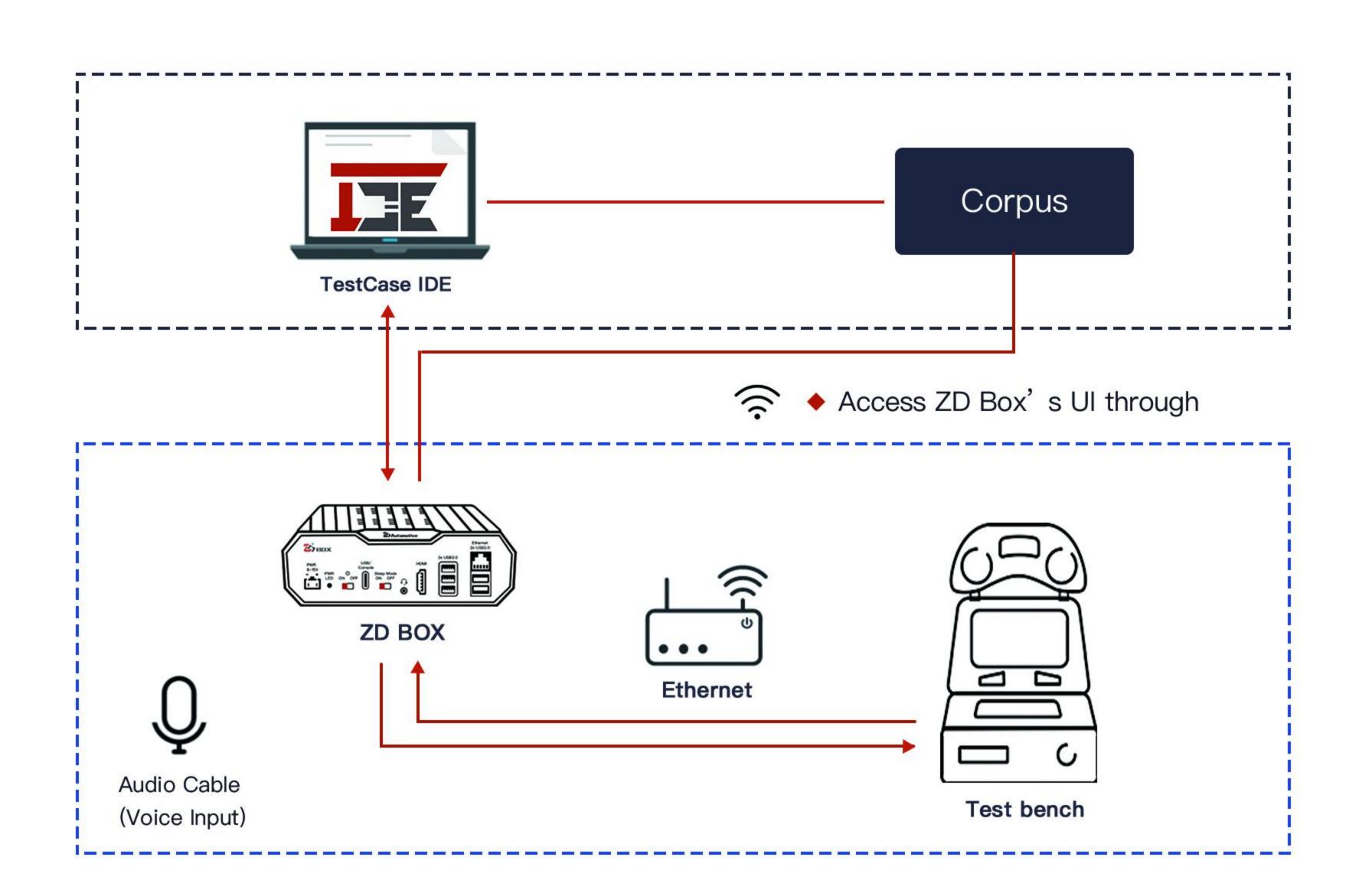
Application Scenario 1
 SDS Test Automation

Testing Process

- ✓ In the test script of ZD TestCase IDE, the user describes the test input in text, such as: open navigation.
- ✓ The script is sent to ZD Box for execution. The corresponding voice is found based on the text and sent to test bench.
- ✓ ZD Box receives a response from test bench. In case of voice response, it will perform speech recognition and convert it to text for the test script to process.

Core Technologies

- 1 Anti-interference, no environment noise
- 2 Automatic generation of test script
- 3 Supports speech to text, text to speech
- 4 Multi-language support



Application Scenario 2 HMI Test Automation

Testing Process

- Remote connection to test bench from ZD TestCase IDE
- Record test script by operation in ZD TestCase IDE
- Start test automation using recorded test script
- Automatic screenshot, image recognition, analysis of test results

Core Technologies



Remote control of test bench

2

Multi-language support



text recognition

Image recognition

4

Automatic analysis of test results



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