

In today's rapidly evolving payments landscape, the ability to complete EMV testing efficiently and without disruption is more critical than ever. By combining a fully qualified and trusted EMV test tool from ICC Solutions with an automated testing solution, organisations can streamline their testing processes, reduce time, cost, and resource requirements while accelerating delivery and maintaining compliance.

The AutoAPI can access either a test project created by an ICCSim tool on the same PC or using the TSE files directly, to expose the data required to execute the individual test cases and to control the probes used during the terminal testing.

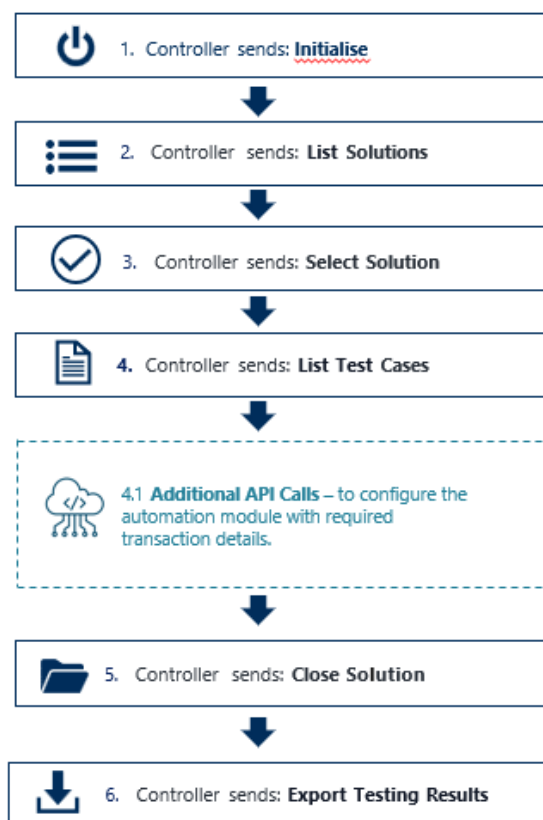
This information can then be utilised by the customer's automation software and/or robotic test system to interrogate the available project list, select and execute test cases, and perform the required interactions at the terminal. Once completed, test results are automatically returned to the Auto API and depending on the origin, they are either stored within the ICCSim tool or a TSEZ is produced. The results can then be reviewed and analysed by the tester

To support automated execution of contact, contactless, and magstripe test cases, three dedicated probes are required: one for card insertion (contact), one for card presentation (contactless), and one for card swiping (magstripe). Depending on the robotic platform and middleware solution deployed, a camera can also be integrated to automatically respond to terminal prompts, such as PIN entry requests, further increasing the level of test automation.

Purchasing Steps

- **Purchase the AutoAPI add-on.**
- **Ensure you have an ICCSim TMat tool.** If you do not already have one, purchase an ICCSim TMat licence to view and analyse test results.
- **Purchase the required PaytestLab probes**, specifying ICC Solutions compatibility:
 - Two probes for **contact** and **contactless** testing.
 - A third probe if **magstripe** testing is required.
- **Develop the middleware** to integrate with your automation software or use an already integrated Robotic solution.
- **Install and run the AutoAPI** on the same server or PC where the PaytestLab probes are installed.
- **Copy the required TSE(s)** to the same PC. If using an ICCSimTMat on the same PC then create the project and configure the additional limits needed otherwise import the TSE and provide the additional limit information.
- **Execute the AutoAPI calls** to control the testing process.
- **Run the automated tests.**
- **Extract the generated TSEZ file** Extract the generated TSEZ or iCCSim project and open it in ICCSim TMat to review and analyse the test results.

Auto API Call Example Flow - High Level



1. Setup AutoAPI Environment



1.1 Create TSE

Copy to the PC hosting AutoAPI and the probes, which connects to the middleware and the robot/automation software.



1.2 Execute Tests

Send the required API commands, execute the tests, retrieve the results, and obtain the resulting TSEZ file.



1.3 Export Results

Export the TSEZ to a PC containing the ICCSim software for evaluation.

2. Using ICCSim Project (ICCSimTMat on same PC as AutoAPI)



2.1 Create Solution

Create the solution on the ICCSimTMat tool containing all projects required.

This will place the necessary files into the correct folder so that the AutoAPI can access accordingly. Close the tool.



2.2 Execute Tests via AutoAPI

The middleware can now interrogate the AutoAPI and obtain test lists and run the tests using the probes.

Send the appropriate API calls, execute the tests, obtain results and close the solution.



2.3 Analyse Results

Restart the ICCSim software and open the projects for analysis.

The results (TSEZ) can now be reviewed and analysed in the ICCSim software.