

MPP Test Automation Tool

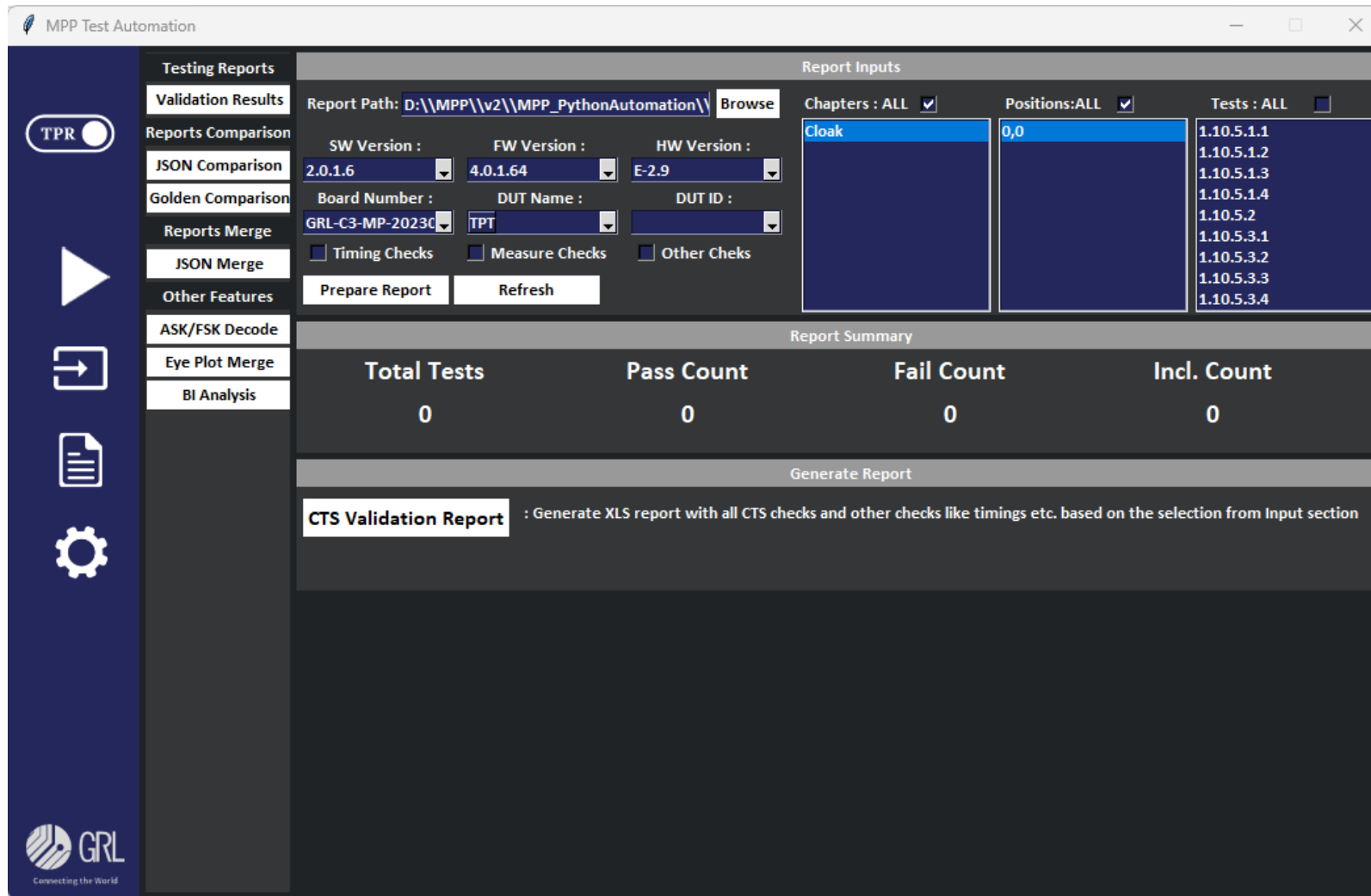
Tool Overview

The screenshot displays the MPP Test Automation software interface, which is divided into several functional sections. Red arrows point from descriptive text labels to specific UI elements:

- Tester Connection:** Points to the 'Connect Tester' section at the top, which includes a text field for the IP address (192.168.5.9) and a 'Connect' button.
- Prepare test list with Phase and offset combination:** Points to the 'Prepare Tests For Run' section, which features two columns of checkboxes for selecting phases (e.g., DigitalPing, PowerDelivery) and positions (e.g., 0,0, 0,2).
- Review prepare list of tests before the execution:** Points to the 'View Test' section, which shows a list of test projects (e.g., TPR_ID_11031_1) and buttons for 'Keep Selected' and 'Remove Selected'.
- TPR/TPT mode Switch:** Points to a toggle switch labeled 'TPR' in the left sidebar.
- Test Run & validation Section:** Points to a large play button icon in the left sidebar.
- Input Section:** Points to a document icon in the left sidebar.
- Reports:** Points to a list icon in the left sidebar.
- Settings:** Points to a gear icon in the left sidebar.
- Qi Inputs for Test Run:** Points to the 'Qi Configurations' section, which includes settings for Negotiable Load Power, Clocking Support, and ATN under Clocking.
- Offline Validation for already ran tests:** Points to the 'Offline Validation' section, which includes buttons for 'Browse & Add Projects', 'Remove Selected', and 'Clear All'.
- Run Tests by APIs, by positions selected with repeat count. Option to choose Tester as DUT:** Points to the 'Run Test' section, which includes a 'Select/Type Project' dropdown, a 'Repeat Count' field, and checkboxes for 'Enable Tester As DUT' and 'Filters'.

The interface also includes a bottom status bar with 'Refresh' and 'Update' buttons, and a 'GRL' logo in the bottom left corner.

Report Module



Report Features

- Testing Reports :
 - CTS validation Report with all Timings checks, plot measures and other standard checks.

| TestcaseName | TestResult | Flow | Timings | | | Timing Result | Flow | Measures | | | Measure Result | Flow | Otherchecks | | | OtherCheck Result |
|--|------------|------|------------------|-------------|-------------|---------------|------|----------------|------------------|---|----------------|------|-----------------|----------------------------|-----------------------------|-------------------|
| | | | Timing Desc | Timing Exp. | Timing Val. | | | Measure Desc | Measure Exp. | Measure Val. | | | OtherCheck Desc | OtherCheck Exp. | OtherCheck Val. | |
| 1.1.10.5.1 MPP.PTX.CPX.CLOAK.ENTER_CLOAK_TC1 | Pass | 1 | twake | 39-41 | No Mismatch | Pass | 2 | CPLCheck | DPL:12.045 Limit | 12.048,12.043,12.044,12.045,12.046 | Pass | 1 | F1-Fq | 127.5-128.5 kHz | 127.77 | Pass |
| | | | tstart | 14-16 | No Mismatch | Pass | | CLK_tterminate | <=28 | 4.77,4.76,4.77,4.77,4.77,4.76 | Pass | | ReserveBitChek | Reserved=0x00 | No Mismatch | Pass |
| | | | tsilent | 6-54 | No Mismatch | Pass | | Tcloak | 475-525 | 504.68,504.68,504.68,504.68,504.68,504.68 | Pass | | F2-Fq | 359.46-360.54 kHz | 360 | Pass |
| | | | tresponse | 3.0-10.0 | No Mismatch | Pass | | CloakSeqCount | >=5 | | 5 | | ReserveBitChek | Reserved=0x00 | No Mismatch | Pass |
| | | | tintervalXCE-XCE | 150-350 | NA | NA | | | | | | | PacketCheck | Specific Request_Cloak Pin | Specific Request_(Cloak Pin | Pass |
| | | | treceivedPLA-PLA | 0-2050 | NA | NA | | | | | | | BitsCheck | Specific Request_Cloak Pin | Specific Request_Cloak Pin | Pass |
| | | 2 | twake | 39-41 | No Mismatch | Pass | | | | | | | | | | |
| | | | tstart | 14-16 | No Mismatch | Pass | | | | | | | | | | |
| | | | tsilent | 6-54 | No Mismatch | Pass | | | | | | | | | | |
| | | | tresponse | 3.0-10.0 | No Mismatch | Pass | | | | | | | | | | |
| | | | tintervalXCE-XCE | 150-350 | No Mismatch | Pass | | | | | | | | | | |
| | | | treceivedPLA-PLA | 0-2050 | No Mismatch | Pass | | | | | | | | | | |
| 1.1.10.5.1 MPP.PTX.CPX.CLOAK.ENTER_CLOAK_TC2 | Pass | 1 | twake | 39-41 | No Mismatch | Pass | 2 | CPLCheck | DPL:12.049 Limit | 12.052,12.049,12.044,12.043,12.045,12.046 | Pass | 1 | F1-Fq | 127.5-128.5 kHz | 127.78 | Pass |
| | | | tstart | 14-16 | No Mismatch | Pass | | CLK_tterminate | <=28 | 4.77,4.76,4.77,4.76,4.77,4.77 | Pass | | ReserveBitChek | Reserved=0x00 | No Mismatch | Pass |
| | | | tsilent | 6-54 | No Mismatch | Pass | | Tcloak | 475-525 | 504.67,504.68,504.68,504.68,504.68,504.68 | Pass | | F2-Fq | 359.46-360.54 kHz | 359.97 | Pass |
| | | | tresponse | 3.0-10.0 | No Mismatch | Pass | | CloakSeqCount | >=5 | | 5 | | ReserveBitChek | Reserved=0x00 | No Mismatch | Pass |
| | | | tintervalXCE-XCE | 150-350 | NA | NA | | | | | | | PacketCheck | Specific Request_Cloak Pin | Specific Request_(Cloak Pin | Pass |
| | | | treceivedPLA-PLA | 0-2050 | NA | NA | | | | | | | BitsCheck | Specific Request_Cloak Pin | Specific Request_Cloak Pin | Pass |
| | | 2 | twake | 39-41 | No Mismatch | Pass | | | | | | | | | | |
| | | | tstart | 14-16 | No Mismatch | Pass | | | | | | | | | | |
| | | | tsilent | 6-54 | No Mismatch | Pass | | | | | | | | | | |
| | | | tresponse | 3.0-10.0 | No Mismatch | Pass | | | | | | | | | | |
| | | | tintervalXCE-XCE | 150-350 | No Mismatch | Pass | | | | | | | | | | |
| | | | treceivedPLA-PLA | 0-2050 | No Mismatch | Pass | | | | | | | | | | |
| | | 1 | twake | 39-41 | No Mismatch | Pass | 2 | CPLCheck | DPL:12.05 Limit | 12.045,12.046,12.045,12.052,12.052,12.052 | Pass | 1 | F1-Fq | 127.5-128.5 kHz | 127.78 | Pass |
| | | | tstart | 14-16 | No Mismatch | Pass | | CLK_tterminate | <=28 | 4.76,4.77,4.77,4.77,4.77,4.76 | Pass | | ReserveBitChek | Reserved=0x00 | No Mismatch | Pass |
| | | | tsilent | 6-54 | No Mismatch | Pass | | Tcloak | 475-525 | 504.68,504.68,504.67,504.68,504.68,504.68 | Pass | | F2-Fq | 359.46-360.54 kHz | 360 | Pass |
| | | | tresponse | 3.0-10.0 | No Mismatch | Pass | | CloakSeqCount | >=5 | | 5 | | ReserveBitChek | Reserved=0x00 | No Mismatch | Pass |
| | | | tintervalXCE-XCE | 150-350 | NA | NA | | | | | | | PacketCheck | Specific Request_Cloak Pin | Specific Request_(Cloak Pin | Pass |
| | | | treceivedPLA-PLA | 0-2050 | NA | NA | | | | | | | BitsCheck | Specific Request_Cloak Pin | Specific Request_Cloak Pin | Pass |
| | | 2 | twake | 39-41 | No Mismatch | Pass | | | | | | | | | | |
| | | | tstart | 14-16 | No Mismatch | Pass | | | | | | | | | | |
| | | | tsilent | 6-54 | No Mismatch | Pass | | | | | | | | | | |
| | | | tresponse | 3.0-10.0 | No Mismatch | Pass | | | | | | | | | | |
| | | | tintervalXCE-XCE | 150-350 | No Mismatch | Pass | | | | | | | | | | |
| | | | treceivedPLA-PLA | 0-2050 | No Mismatch | Pass | | | | | | | | | | |

- **Other Reports & Features**

- MPP final JSON files merge automatically based on the results from different run
- Offline comparison : High level validation results can be compared with the golden DUT results.
- stability check : If test has more runs, each run results and run time will be plotted in the report for the better comparison.
- ASK/FSK Decode Issue checks.
- Eye plot merge into single Excel file for the comparison.
- BI Analysis for MPLA calibrated testers.

Working Flow

