

# Enhanced BoardFarm framework

## Business Challenge

Enhance the boardfarm test framework, with minimal changes to use it with in OpenWRT models



### Requirement

Enhance the boardfarm test framework, with minimal changes to use it with in OpenWRT models (using the UCI configuration mechanism means) and to bring in scalability and maintainability of the test framework.

Boardfarm framework design to be enhanced. It has majorly three parts viz Input, test framework, output.



### Technology & Tools

- Language – Python, TCL /TK, Shell Scripting
- IDE – PyCharm
- Framework: OpenWRT,
- IPv4 / IPv6 Routing , Bridging/Switching & Wireless routing
- Deployment – JENKINS, CI/CD
- Tools- STC, IxChariot, UCI, FAPI, Clish, Linux commands, pExpect, Paramiko



### Value add by Mirafra

1. Updated the parser, input, test framework, output modules within stipulated timeframe.
2. Packaged the framework so that it can be easily installed
3. Enhanced the framework to cater to any device by just updating the configuration file.