RDK PREFERRED PROGRAM

RDK Automatics with CDRouter

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Agenda

- ✓RDK Automatics Overview
- ✓CDRouter Overview
- ✓Integration
- ✓Architecture
- ✓Network Configurations
- ✓Demo
- ✓Advantages

RDK Automatics

- Fully integrated test automation system to support functional & non-functional testing for RDK
- End to End system is designed to support fast-paced DevOps model
- Support to execute test scripts based on Java, Python and PyTest
- Support for scriptless automation
- Integration with various software tools like Candela Jira, ALM, Grafana, Backtrace.io etc
- Automated results collection for result analysis and defect creation

CDRouter Overview

- Test platform for CPE devices from QA Cafe
- CPE devices – Broadband Routers, Wifi Routers and more
- Thousands of ready-to-run test cases
- Test Types - functional, conformance, negative, denial of service, scaling etc
- Automated test environment by emulating an ISP connection, LAN clients, exercising different protocol and traffic flows etc

RDK Automatics CDRouter Integration

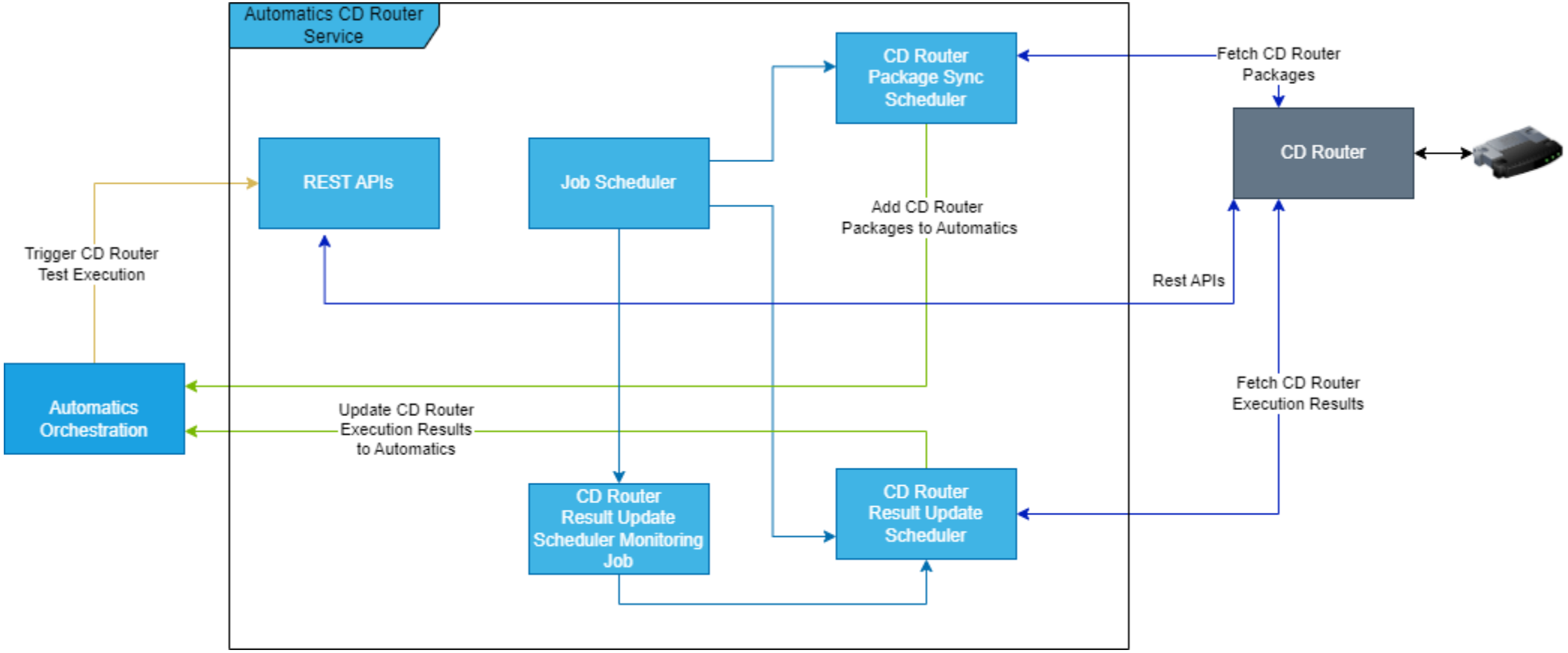
Single platform for
Automatics and CD Router
test cases

Easy integration
with CI/CD pipeline

Features

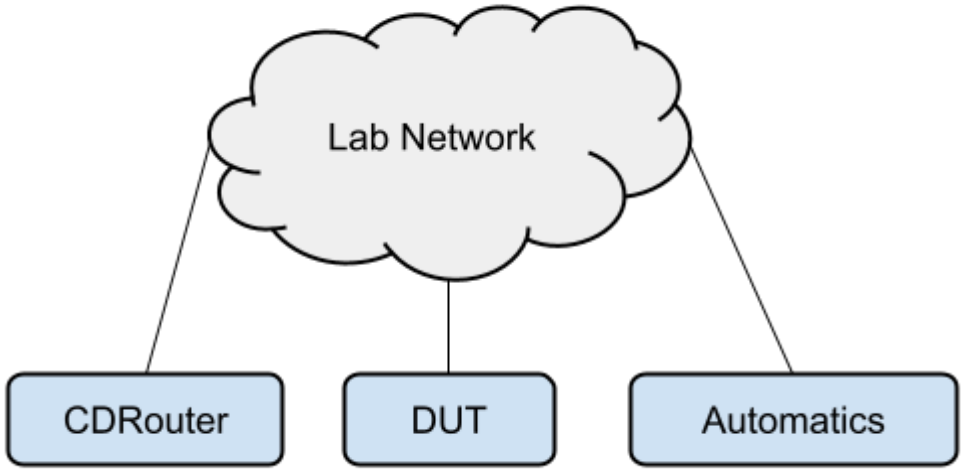
- View packages
- Trigger Execution
- Monitor Execution
- View Execution Result
- View Execution Logs

Architecture



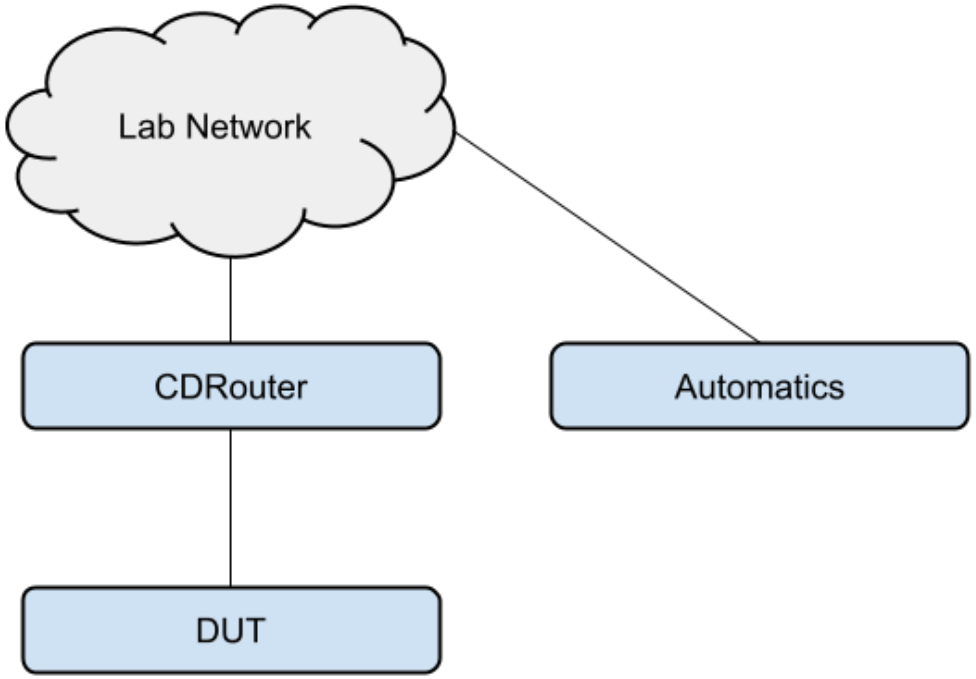
Network Configurations

Topology 1



Automatics, CDRouter, and DUT are all on the lab network.

Topology 2



Automatics and CDRouter management interface on the lab network. DUT connected to CD Router in a closed loop.

CDRouter Execution from Automatics Demo

Advantages

- Single platform for Automatics and CD Router test scripts
  - Selection
  - Execution
  - Monitor
  - Result Analysis
- Easy integration with CI/CD pipeline

References

- Repository Details
  - CDRouter Service - https://code.rdkcentral.com/r/admin/repos/rdk/tools/cdrouter-service

- References
  - Integrate CDRouter support on Automatics system – https://wiki.rdkcentral.com/display/ASP/Automatics+CDRouter+Integration
  - More details on Automatics - https://wiki.rdkcentral.com/display/ASP/Automatics+Collaboration

Q&A

Thank You