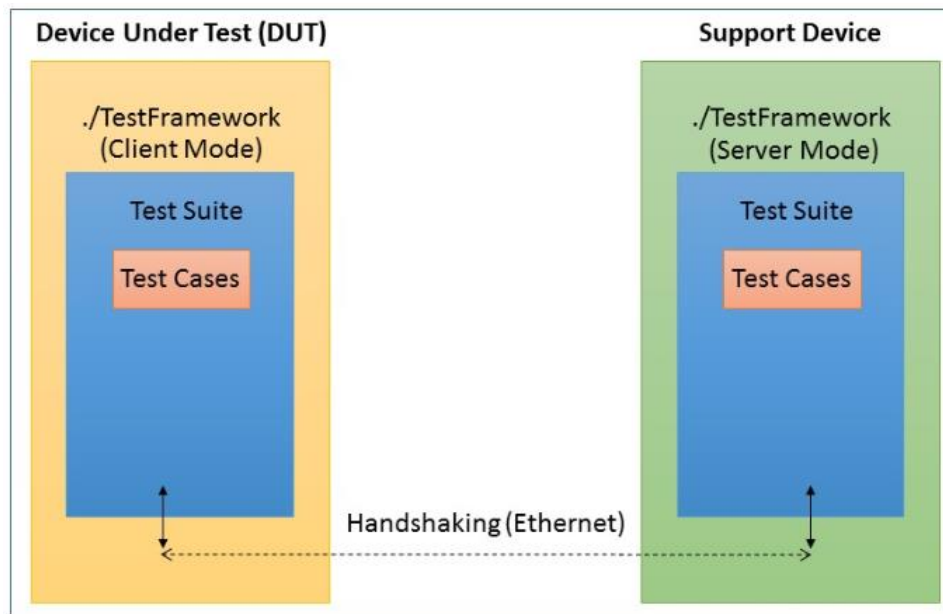


Test Framework Design

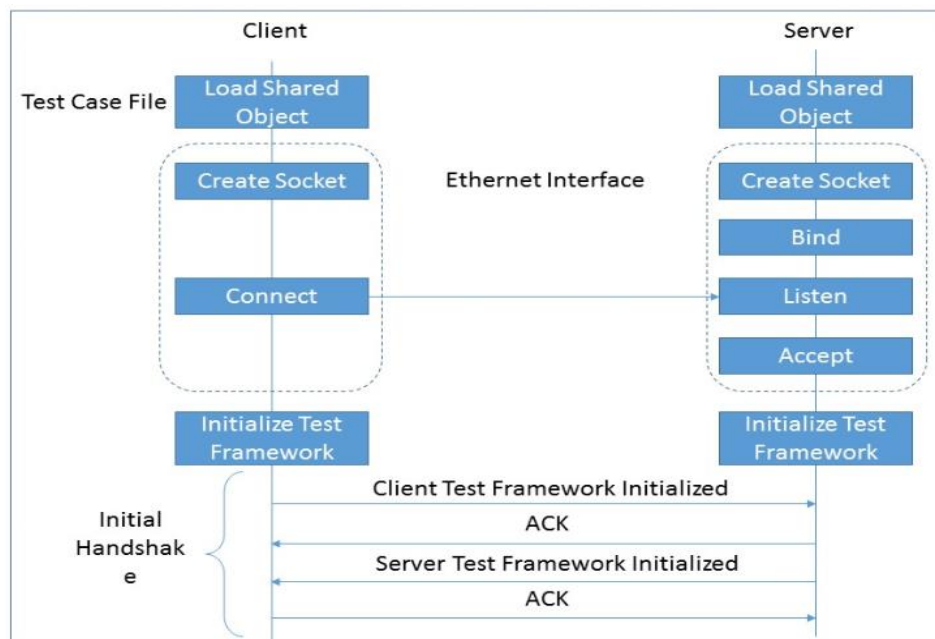
Test Framework Block Diagram

In the test framework there will be only one network interface i.e. Ethernet Interface (eth0). This interface will be used for the handshake between the client (device under test) and the server (supporting device) nodes.

Test cases will be added to the framework from the shared object created by the user.

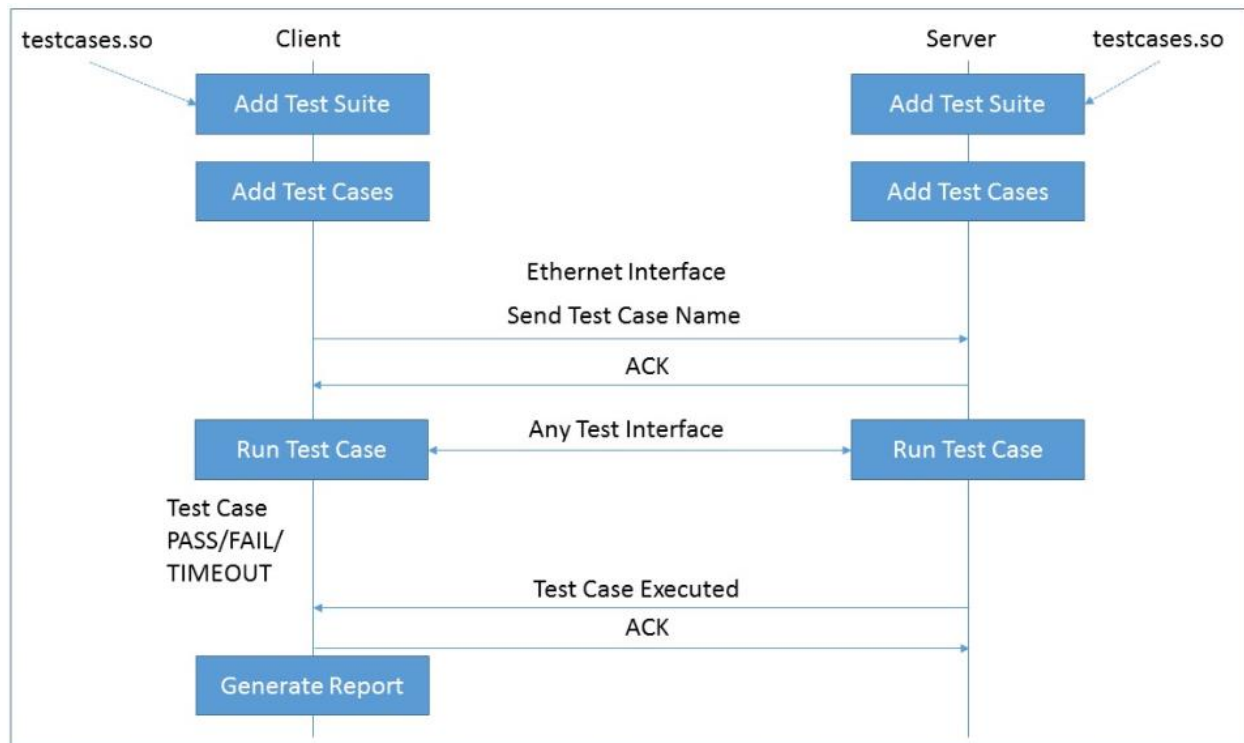


Framework Initialization & Handshake:



- Load the shared object containing test cases.
- Create socket on Ethernet interface.
- Initialize the test framework.
- And perform initial handshake.

Test Case Adding and Execution:



- Add test suites and corresponding test cases to the test registry.
- Run the test cases:
 - Send the test case name over Ethernet to the server
 - Receive Acknowledgement
 - Start executing the test case over the interface (ex. ARCnet, MSTP) under test.
- After executing the test case on server node, it will send test case execution status on Ethernet
- Client node need to acknowledge it.
- Generate a report at the client node in xml format.