



CONFIDENTIAL

About IPv6 Ready

Why we try to use TTCN-3?

What we done

Next steps

Think again of TTCN-3



IPv6 Ready is ...

- The IPv6 Forum (<u>http://www.ipv6forum.com</u>) IPv6 Ready Logo Program is a conformance and interoperability testing program intended to increase user confidence by demonstrating that IPv6 is available now and is ready to be used.
- The IPv6 Ready Logo Committee mission is to define the test specifications for IPv6 conformance and interoperability testing, to provide access to self-test tools and to deliver the IPv6 Ready Logo. The Key objectives and benefits of the IPv6 Ready Logo Program are to:
 - Verify protocol implementation and validate interoperability of IPv6 products.
 - Provide access to free self-testing tools.
 - Provide IPv6 Ready Logo testing laboratories across the globe dedicated to provide testing assistance or services.



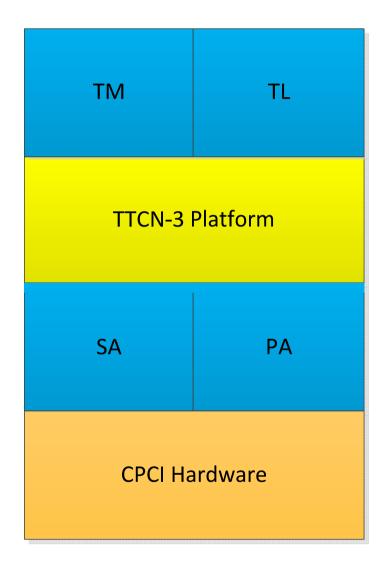
Why we try to use TTCN-3?

- Specified Language for test
- Modularization
- Reusable
- Easy to split to different teams



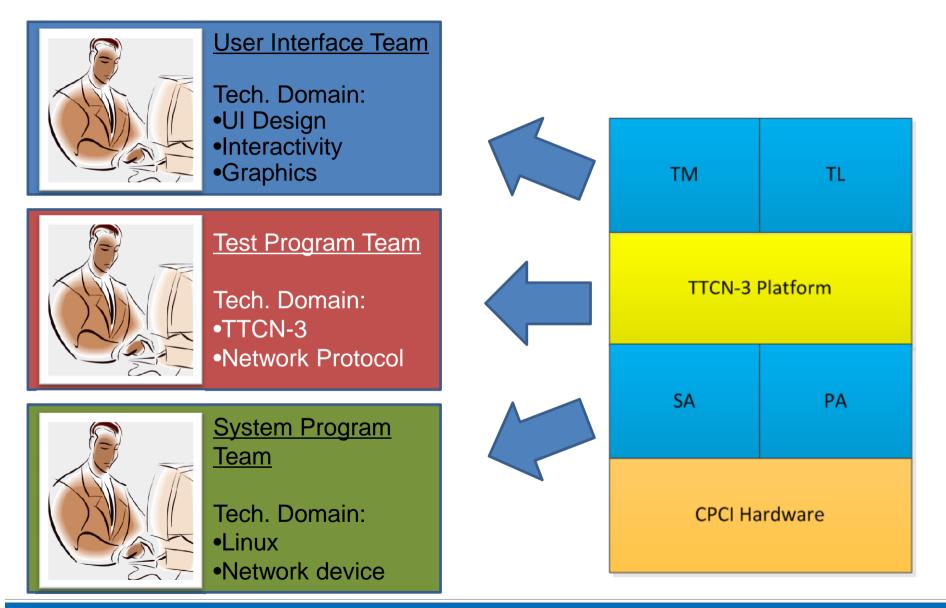
Introduce of project

- A development project in Chinese CNGI project of next generation Internet test equipment
 - An integrated equipment
 for function test
 (conformance and
 interoperability test) and
 performance test
 - Target SUT: Network
 Device in NGI





Teams

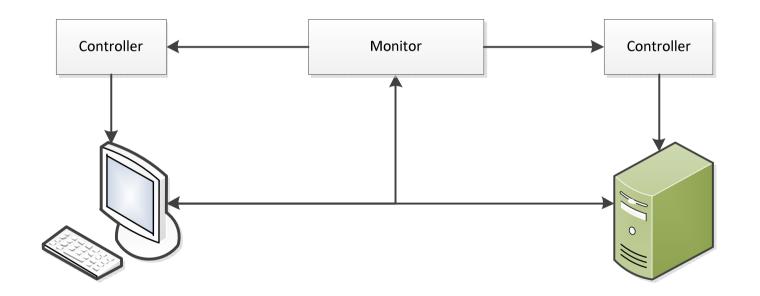


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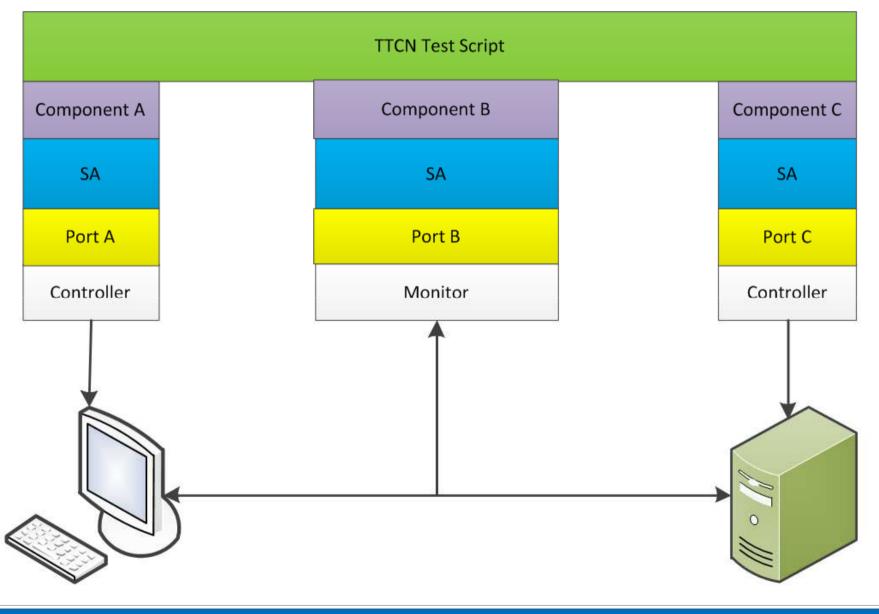
Logicality of Automatic Interoperability Test

• Basis : Monitor & Feedback

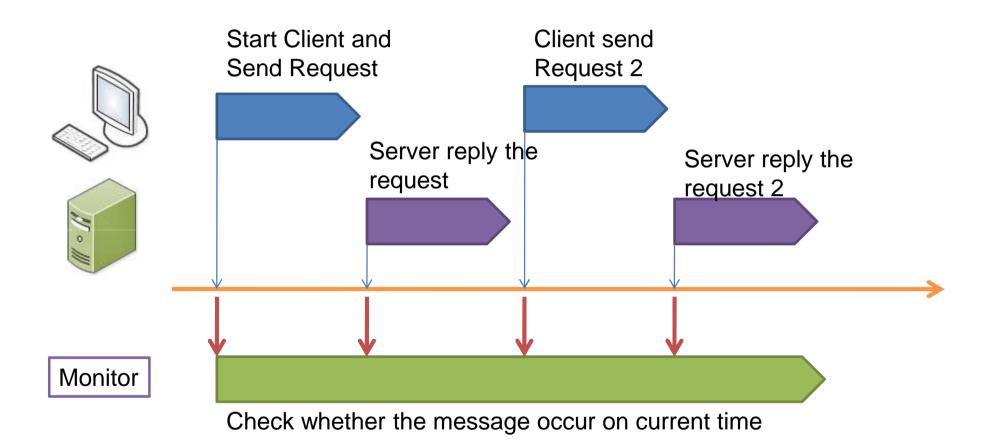




Integration with TTCN platform









Flexibility

• Adapt to different node type in interoperability test

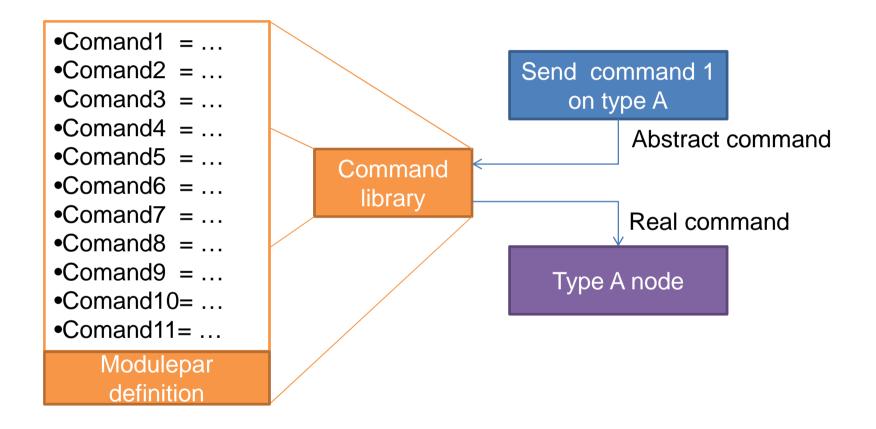
Velocity

• 'Real-time' checking of online message



Adapt to different node

• Design a command library for each kind node



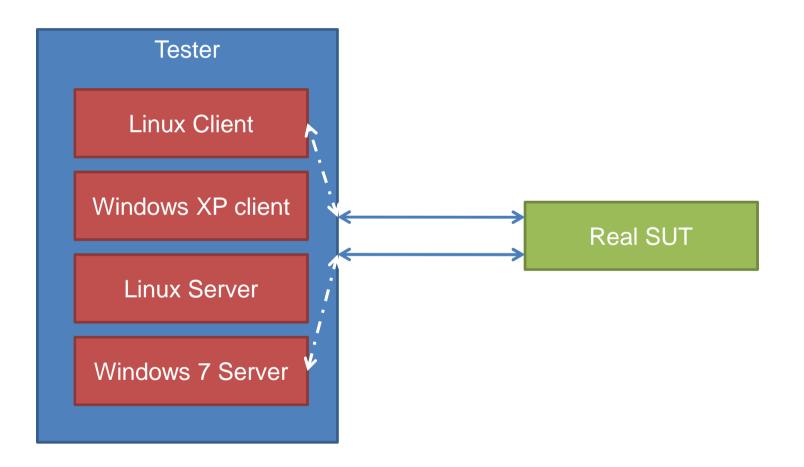


'Real-time' checking of online message

- Using external function to improve the checking speed
 - External function is native library which can use C++ or Java to code.
 - Using Native modules (CD, SA, PA, TM, TL) to do the timeconsuming job
- Using external function to re-write or add some speedy feature.
 - Rapid sub-string search

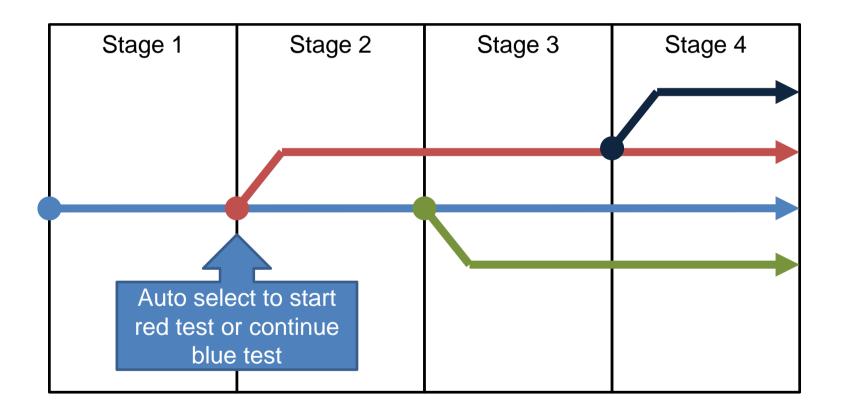


• Virtualization : Useful tool for interoperability testing





• Automated distribution of test case according to real interoperation





Think again of TTCN-3

- Team Building
 - Different requirement for different modules
 - Something like external function make corporation more complicated
- External function libraries
 - Immigrate useful function into Standard TTCN-3 function
- Improve the usability of TTCN-3 language
 - String functions
 - Array functions
 - Map classes
 - Hash Map



Thank You !

