Master Thesis – Generic Router Test Suite

Background
At Ericsson we have developed several routers (or products with router functionality). As a part of this we also develop large sets of black box test cases to ensure that the products are working.

It would be very useful to be able to reuse large parts of these test cases in testing of new products.

Thesis Description
Take a small subset of our existing test cases and try to make them generic by making them test a different product. Investigate how to properly model the product specific parts of the test cases and implement suitable support functions.

For example, we need to understand how to model test case requirements. If a test cases need to configure 5 IP addresses on 4 different physical ports, how should that be described and matched to a specific product? Our current test cases are written in Java using an Ericsson specific test framework.

Qualifications
You need to be familiar with Java programming and have the ability to create useful abstractions of complicated systems.

Preferred starting date
Second half of 2014

Extent
1 person, 30 credits

Keywords
Java, Programming, Modelling, Testing, Routers

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