



AimValley is a world class engineering and innovation center that designs and builds networking solutions. We are based in Hilversum, with a strong presence in the USA and India. We started in 2003 as a spin-off from Lucent Technologies (a successor from the American company AT&T), that is why we have a strong background in telecommunication solutions and have build-up vast expertise in real-time processor techniques. Most of our design & development is done in-house.

Product development entails preparation of requirement documents, specification of system architecture, electronic development (block diagrams, board design, system certification, mechanical design), FPGA/ASIC development, software development, system verification and product/factory introduction. AimValley makes use of FPGAs to process high speed transmission functions. Real-time requirements are also key in our software development.

Our business is about people and our teams are dynamic, skilled and passionate about technique. Recruiting and training the right talent is an essential part of the AimValley DNA. We have over 80 employees of which 75% works as design expert in the R&D organization. All R&D employees have a college or university level education.



### Project Introduction - SNT meta driver

The AimValley AimOS platform is used as the development platform for many products within AimValley. It comes among other things with host and simulation images including an automated test environment. The automated test environment supports the use of various Ethernet network test equipment by means of a meta Ethernet driver (ETX). The ETX provides a single, easy to use API that offers subset of functionality common to its supported analyzers. This assignments adds the SNT, developed during previous assignments, to the meta Ethernet driver.

### Project Description

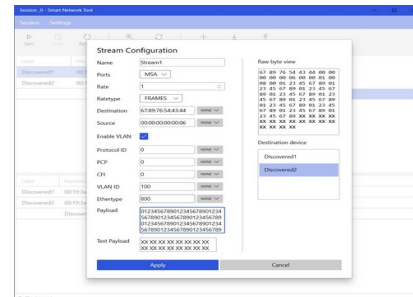
The idea behind the ETX is that the same automated test can be run with different measurement equipment. The assignment requires an investigation of the current meta Ethernet driver (ETX) and the automated test environment.

Requested is the following

- > An architecture/design of a SNT driver to support the SNT in the ETX framework
- > Implementation and of the design verified against an existing test descriptions.

### Complexity

Currently the SNT has very limited functionality in contrast to the supported N2X, IXIA and Xena test equipment and not all functionality supported by the meta ETX functions can be made available. But more important the SNT interface differs significantly from the IXIA/Xena native interfaces and will probably require some additional APIs before it can be used via the ETX.



#### Keywords for this project

- > Embedded Linux, bash, pyenv
- > Jenkins, Gherkin, Behave
- > Dockers, Git, Gerrit

#### Affinity

- > Embedded Software
- > Python, C/C++
- > Test Automation

#### Skills

- > Communicative
- > Independent
- > Competent in English

Are you a student with a can-do attitude and a passion for technology?  
AimValley is your company!

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