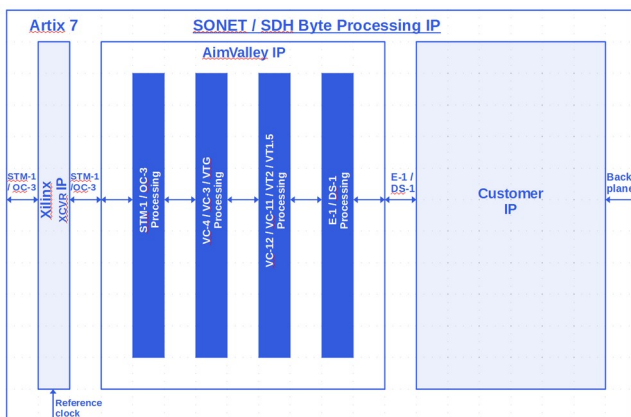


### Customer

The customer is a worldwide trusted expert in wireless transport. Their existing plugin cards have become end-of-life and require a redesign/modernization.



### Customer Objectives

To replace the existing ASIC functionality in the plugin cards with equivalent functionality based on commercially available FPGA technology.

- > Redesign the existing E1/DS1 interfaces, muxed/demuxed, into a new STM1 optical interface.
- > Replace existing STM1 multiplexing/interfacing functionality.
- > Allow customers to add their own logic without revealing each others IP.
- > Prevent duplication of code so customers can have access to AimValley building blocks.

### AimValley Solution

Design of a working FPGA solution with partially encrypted IP source files, enabling the customer to add their own extensions including software support via SDK APIs. Also a driver package was designed to be integrated in customer's own development environment.

### Key Technologies

- > SONET/SDH

### More information

- > [Obsolescence Redesigns](#)
- > [Embedded Software](#)

## Results and Added Value

### ✓ Efficient

Re-used IP from other SONET/SDH products. Mature and field proven functionality, hence efficient and relatively short development cycle with high quality.



### Partnership

Developed in close co-operation with silicon vendor [AMD](#).



### Successful

On-time delivery, enabling customer to add their extension to their platform.



### Innovation

Encrypted IP integrated in customer environment