

Thesis title

Implementation of a PCIe Encryption Module for Ip-over-Satellite Modem with support of Open-Encryption Interface

Author

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Evaluation

Ondrej Ille was writing his master thesis about a hardware based encryption module design that will be released as a NDSatcom product in the next development cycle.

He was starting his activities with the evaluation of different design options based on the existing requirements. During this phase he was already able to justify and defend his different design options in detail. While he was able to work independently he was always open for feedback discussions from his team mates trying to achieve the most optimal design.

Because the comprehensive scope of the thesis containing architecture, hardware and software design components it was key to define a clear work schedule. Ondrej Ille managed to define his schedule with a very clear understanding about the main topics interdependencies.

Ondrej Ille's workstyle was very structured with good analytical judgement for the best design options. He managed to find a good balance between established concepts and designs innovation.

The thesis itself contains all important parts with the required level of detail. It is illustrating the important phases i.e. evaluation, research, design, design iterations, implementation. Some additional software flow charts could help illustrating the flow of the encrypted data stream.

Due to the quality and the volume of the work my grading suggestion is A (with A-Best, E-Worst)

Bernd Jungblut

Director R&D / Verification