



# Cybersecurity on SCADA: risk prediction, analysis and reaction tools for Critical Infrastructures

Innovative system developed by :



## Main Functionalities

- Modbus TCP / IEC104 packet decoding
- Continuous monitoring
- Message integrity checking (cmd tampering)
- Modbus traffic modification detection
- Abnormal behavior detection from the monitored device
- RTU reprogramming and MITM attacks detection
- Zero-day attacks Detection
- HMI exploitations detection (HMI modification)

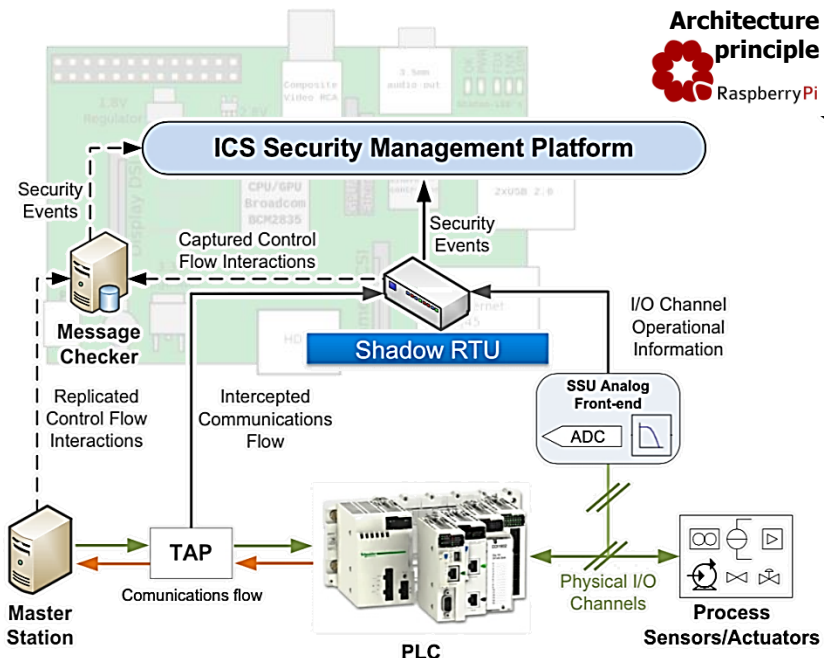
## Modus Operandi

- Shadow mode operation (the system have no IP address and still remains undetectable)
- Mirror mode
- Very unexpansive

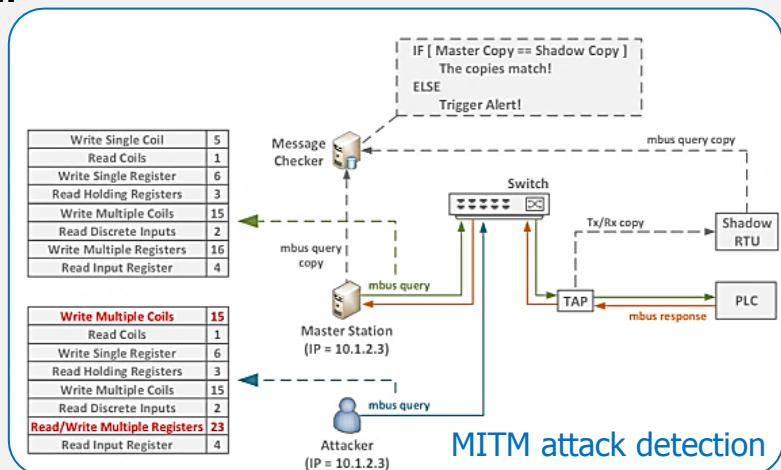
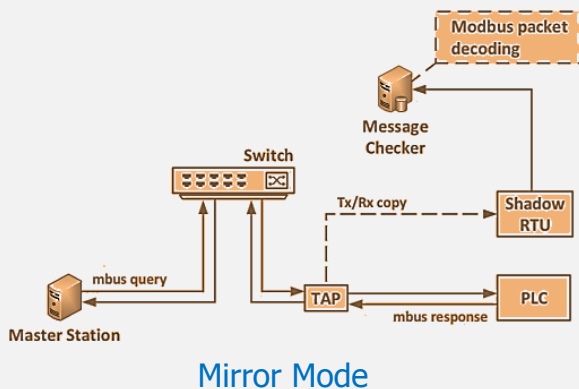
## Shadow RTU

Type: ICS Security System

Packaging: Ready to use system embedded in Raspberry PI hardware



## Examples of monitoring and attack prevention



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