

## What else is CySCoS capable of?

Beyond security against malware, CySCoS offers two main advantages:

1. Due to its architecture, CySCoS is better suited for the development of devices as their currently available predecessors. Three groups of devices are listed as examples:
  - Equipment for secure and controlled exchange of data between networks of differing
    - Access attributes,
    - (Security-) restrictions or
    - Usage.
  - Devices for Artificial Intelligence or Big Data processing: CySCoS may be extended with more than the technically necessary data categories. These additional categories may be used to represent data of distinct
    - Abstraction level,
    - Interpretation level
  - Counters, of which the readings cannot be manipulated (e.g. odometers of vehicles).

Such requirements have to be expected with certainty within the scope of „Industry 4.0“, or the „Internet of Things“. Conventional technology has shown that the secure compliance with these requirements is hard to achieve.

2. Due to the several separate memory units, CySCoS lower concurrency while accessing data. This multiplies the bandwidth in processor to memory communication. It appears feasible to design future processors, which have one operand bus or data cache per data category

Further advantages of CySCoS over conventional architectures are:

- Lesser Software to be executed due to the unnecessary anti-virus-software, resulting in
  - Faster responses,
  - Shorter delays,
  - Lower storage requirements
  - Lower staff requirements in IT-departments
- No necessity to purchase or update anti-virus-software.
- Time savings after hacker attacks due to the unnecessary
  - Repeated installation of operational software and
  - Clearance of damages.