

## **What is the reason for the gain in security?**

Increased security is caused by the following measures:

1. Data to be processed and programs are exchanged via different interfaces. A system, which uses the same interface to exchange data or programs, can principally not be secure with respect to malware attacks.
2. Data and programs are sorted into categories. Conventional hardware architectures store data of different categories in an unsorted manner into the same storage volume. This disorder enables hackers to introduce code as data and have it executed afterwards. This missing order is used by hackers to insert instructions as data, and having them executed afterwards. (Instructions with this regard are combinations of bit meant to control processors in order to manipulate data or programs.)
3. The distinct data categories are stored separately into independent memory units. This separation makes it technically impossible to misuse entered data as instructions.
4. Processing of data and management of programs are assigned different processors, each having distinct access attributes to the different memory units. This hinders data from being applied as instructions or vice versa.