

The (COTS)² Movement & What Approaches Will Successfully Address It

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Chief Technology Officer



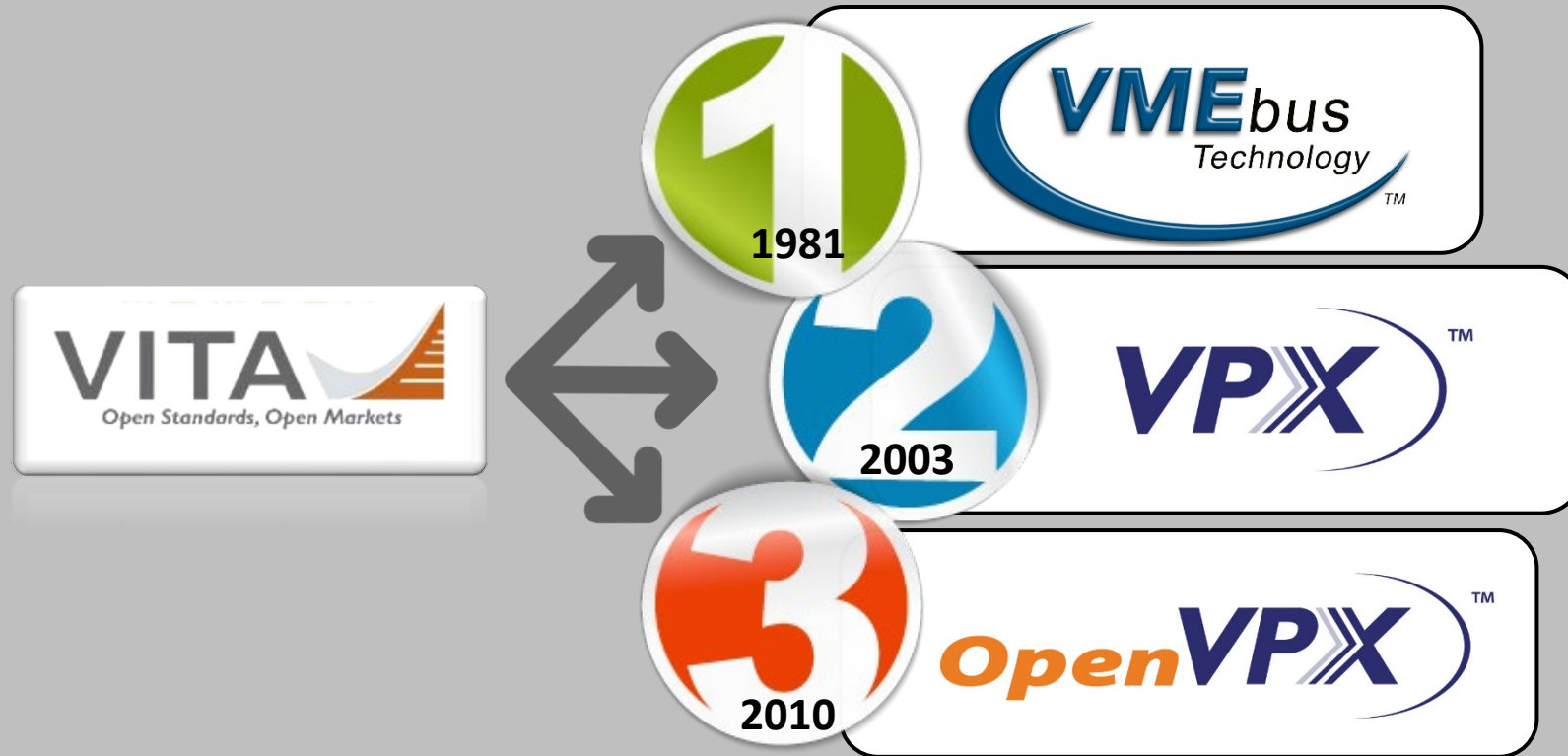
COTS Genesis: Perry Memo



June 1994

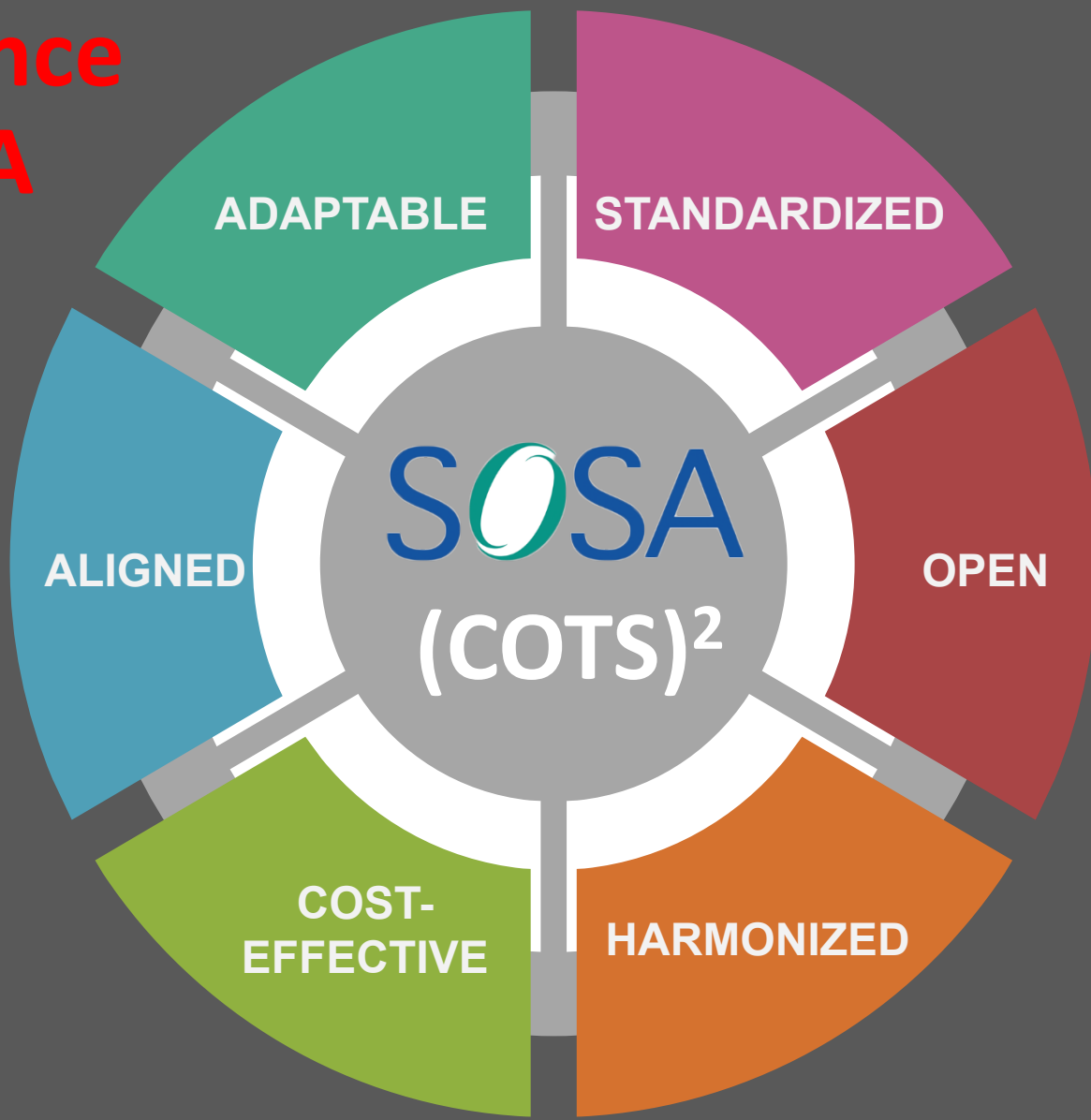
COTS Memo

VITA Is Foundation



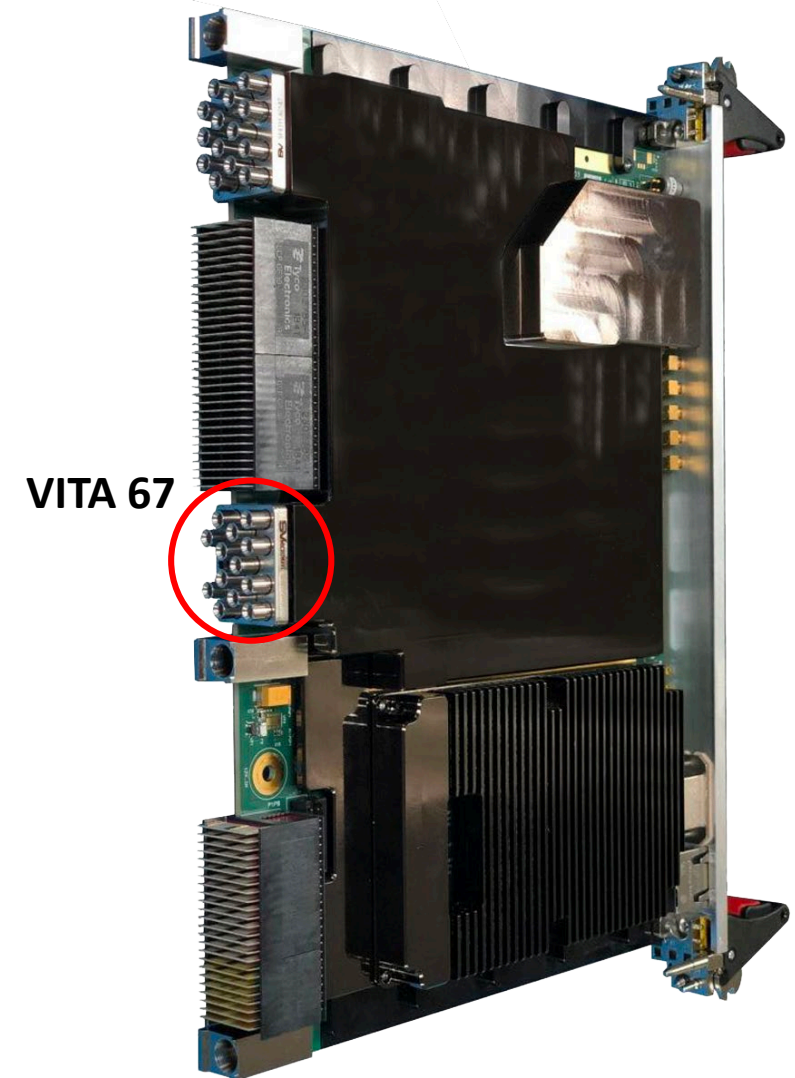
- OpenVPX taking system performance to next level
- However, too much customization allowable

Convergence on SOSA



Standardization of Hardware Interfaces/Protocols

- Backplane profiles, including VITA 66/67 Optical/RF
- Common connectors
- Common modules
 - ✓ Power supplies
 - ✓ Network switches
 - ✓ Single-board computers



Standardization of Logic (Software/Firmware)

- Applications (Apps) that can be used on different systems or CONOPS
 - ✓ Systems management
 - ✓ System drivers
 - ✓ Cybersecurity
 - ✓ APIs
- Common data structure, data model & C2 mapping between higher-level open architectures
- Utilize existing frameworks such as SCA, REDHAWK & FACE to enable portability

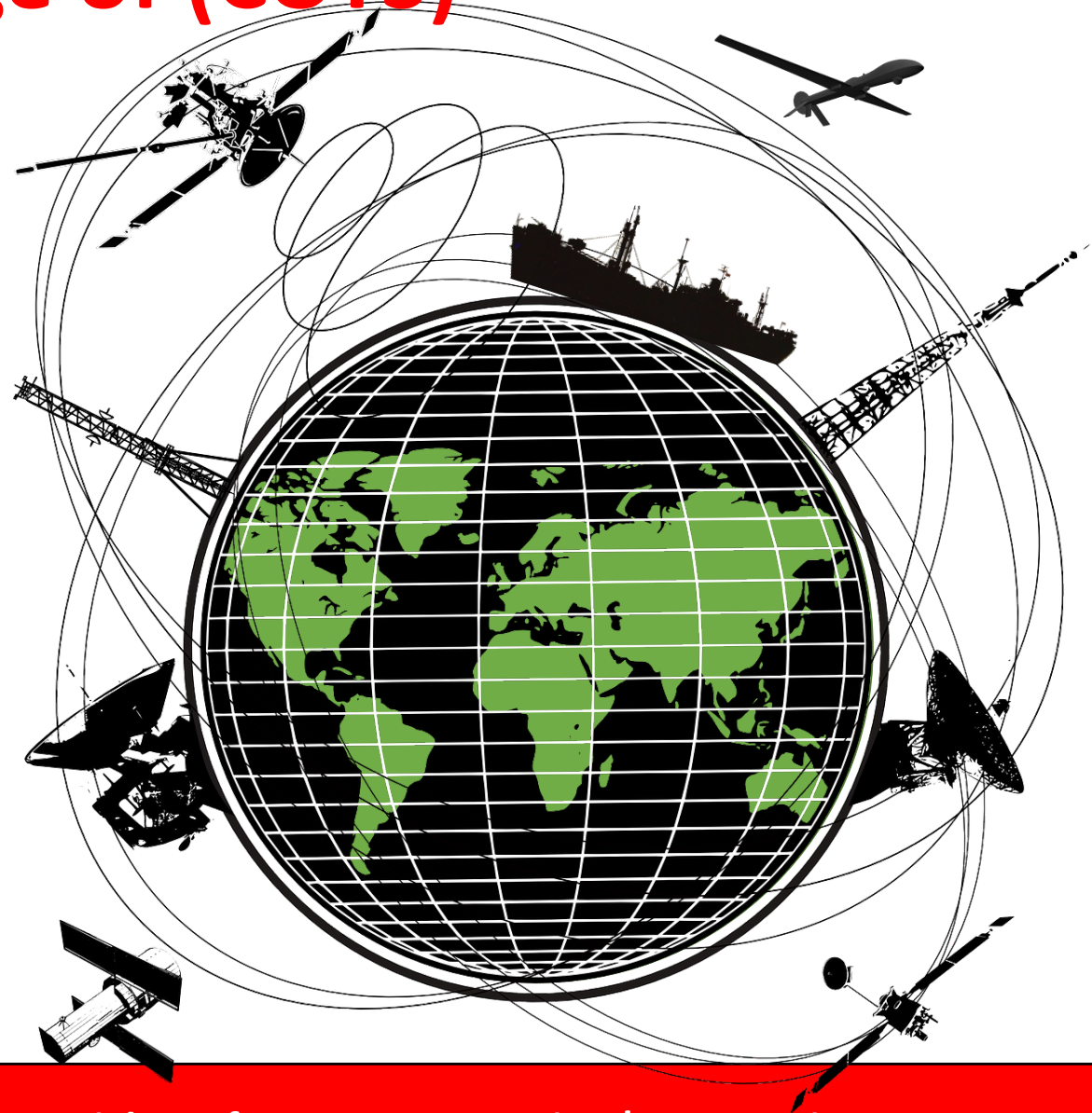


Allows for More Frequent Upgrades

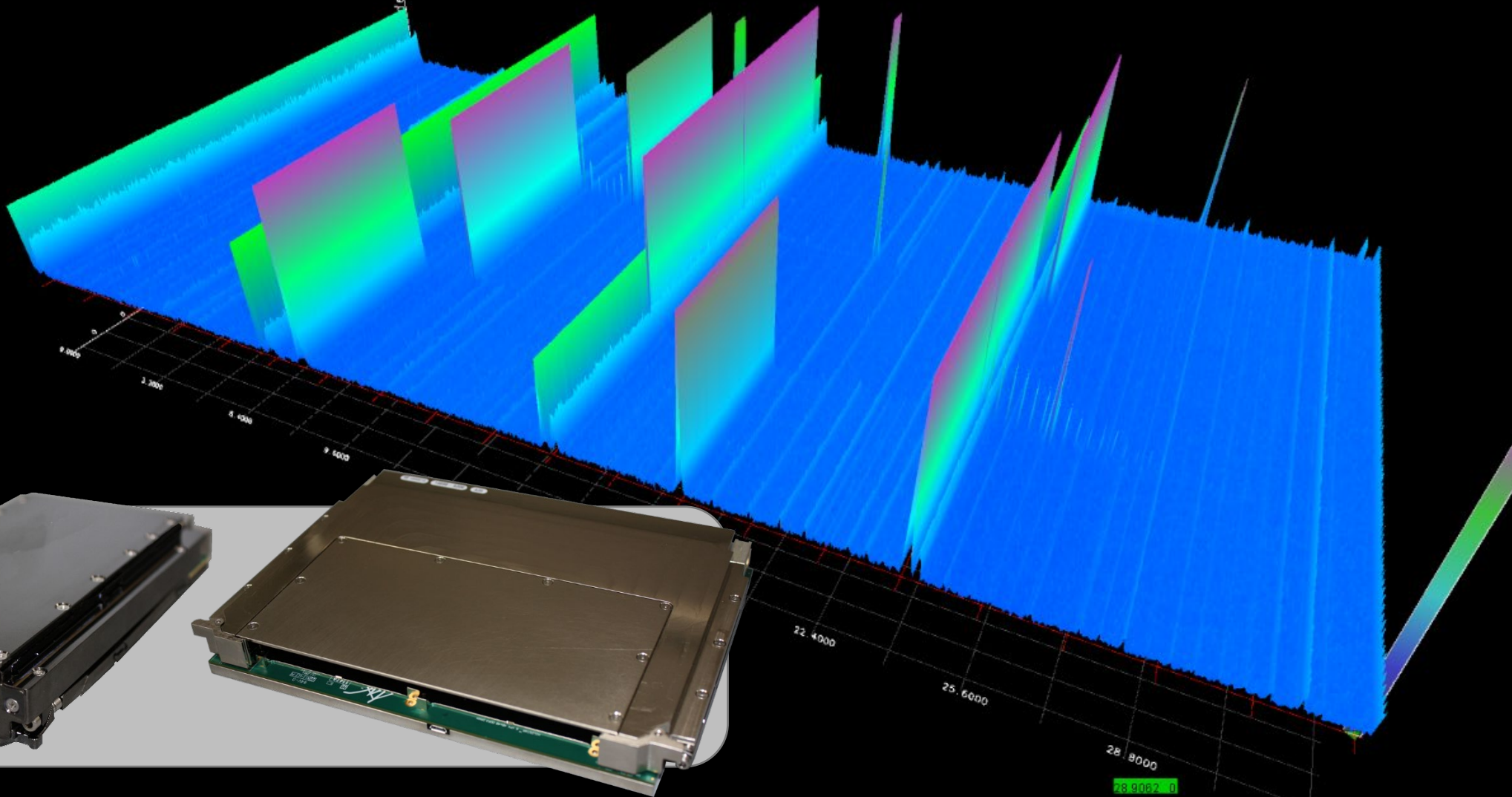


How to Take Advantage of (COTS)²

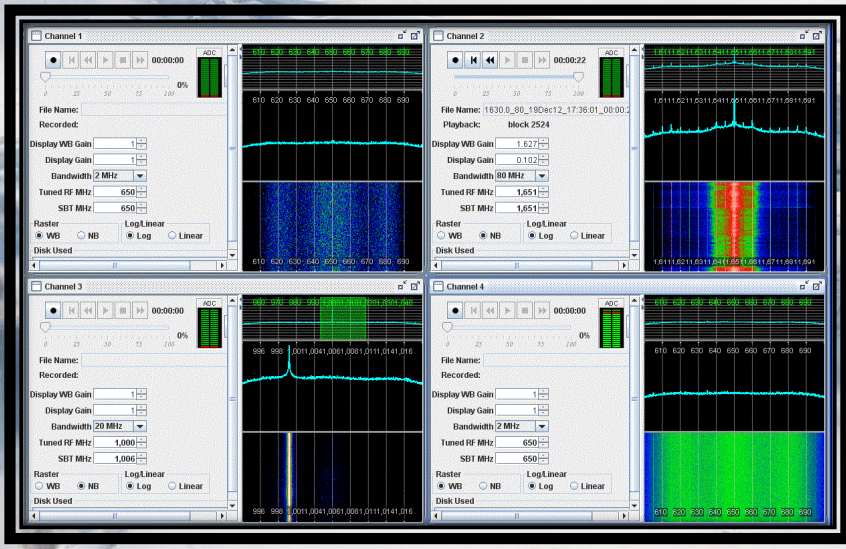
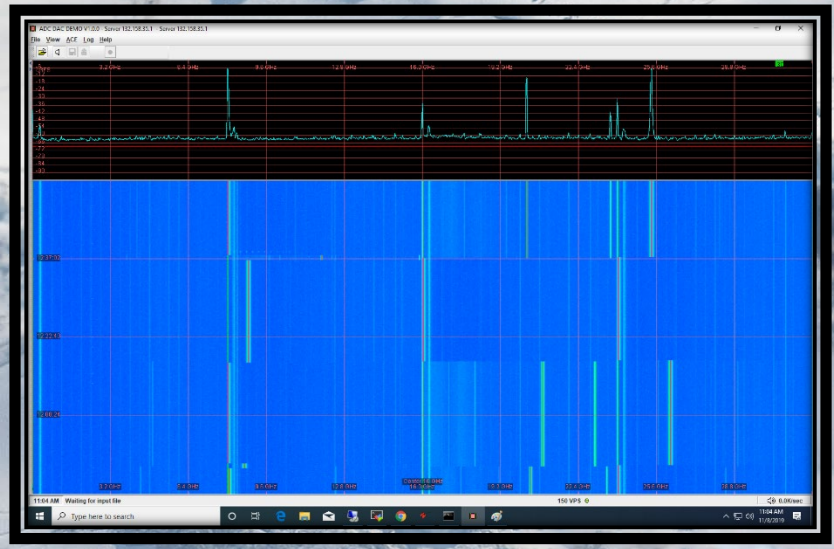
- Hardware products that are independent of applications
- Applications that are independent of hardware products

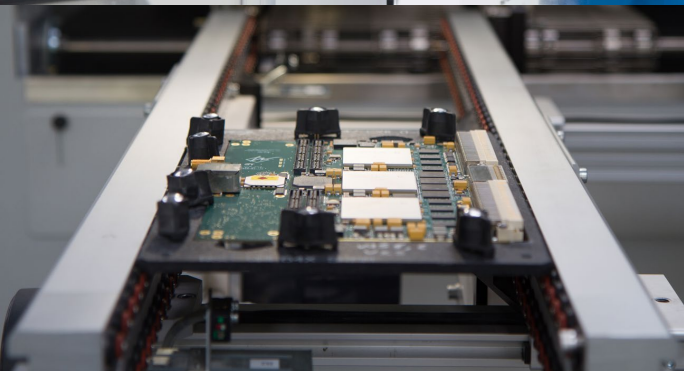
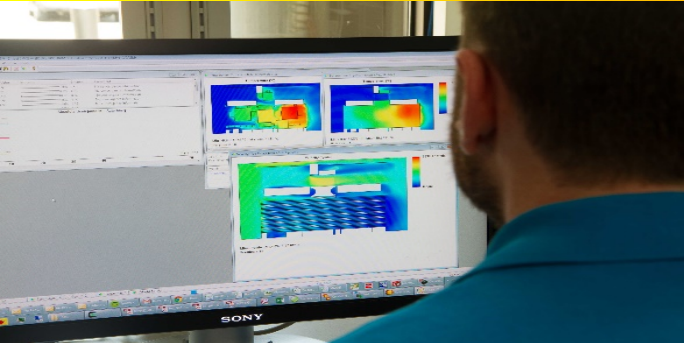


One Application Running Multiple HW Products



One HW Product Running Multiple Applications





Thank you!

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