SCS

Simulator Communication System

OVERVIEW

- Present simulator HW interfaces

- The good, the bad, the ugly

- The power of standards

- Combining the best of all worlds

- The new picture

PRESENT HW I/F

- FSBus

- OpenCockpits

- Phidgets

- EPIC

- I/O Warrior

THE GOOD, THE BAD

- General purpose

- Programmers required, not Pilots

- Windos only

- Mostly only FS, until Jan 23th, 2009 + 2 years

- Mostly USB or USB/Serial

STANDARDS

- Standards block innovations?

- Standards avoid re-inventing the wheel!

- Standards enable communication

- Open standards are an insurance for your investment

AIRBORNE STANDARDS

- Arinc 429

- Arinc 664, aka AFDX aka Ethernet

- CAN Aerospace

COMBINING THE BEST

- Local intelligence

- CAN Aerospace

- Ethernet

- Platform independence

- Simulator independence

LOCAL INTELLIGENCE

- I/O Pins, Power in abundance

- Representation decoupled from data

- Multiple consumers of the same data

- Broadcasting concept allows access to all data