



ArchiverAppliance at the Fritz-Haber-Institut

EPICS collaboration meeting, Oct., 2015
Heinz Junkes, Fritz-Haber-Institut, Berlin

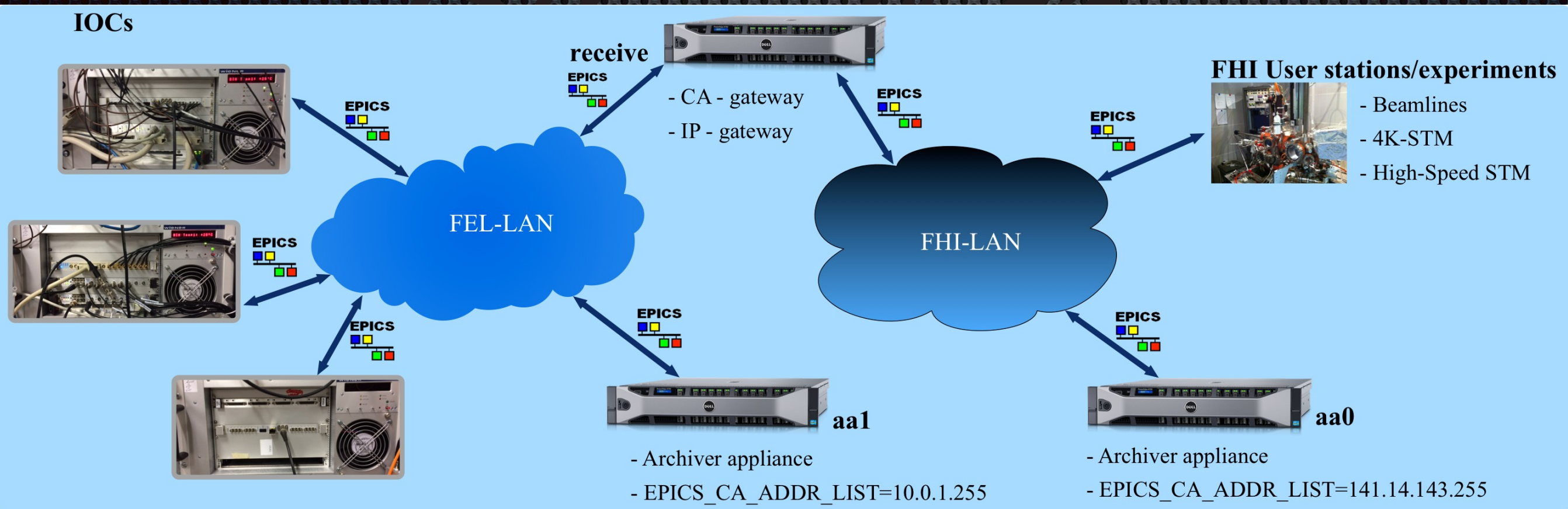
The FHI FEL

- Mid-infrared oscillator FEL
- Accelerator consists of a thermionic gridded gun, a subharmonic buncher, and two S-band standing-wave copper structures
- Electron energy adjustable from 15 to 50 MeV
- More than 200 pC bunch charge
- Moderate “shot” rates (1Hz, 5Hz, 10Hz, max 20Hz)
- Planar hybrid-magnet undulator within a 5.4 m long IR cavity
- Wavelength range from 4 to 48 μm
- 17547 PVs on 29 IOC's

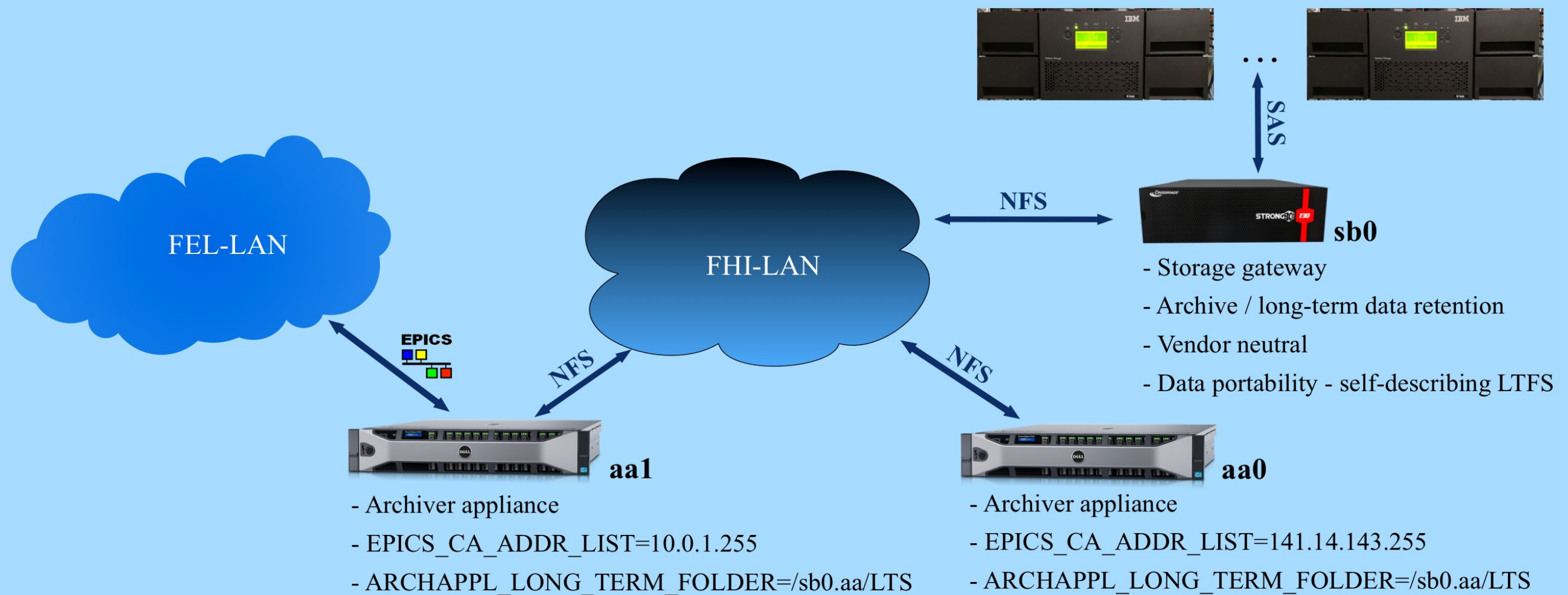
ArchiverAppliance

- Developed by Murali Shankar at SLAC
- From the Web-site:
 - Ability to cluster appliances
 - Multiple stages
 - Focus on data retrieval performance
- Successor of ChannelArchiver?

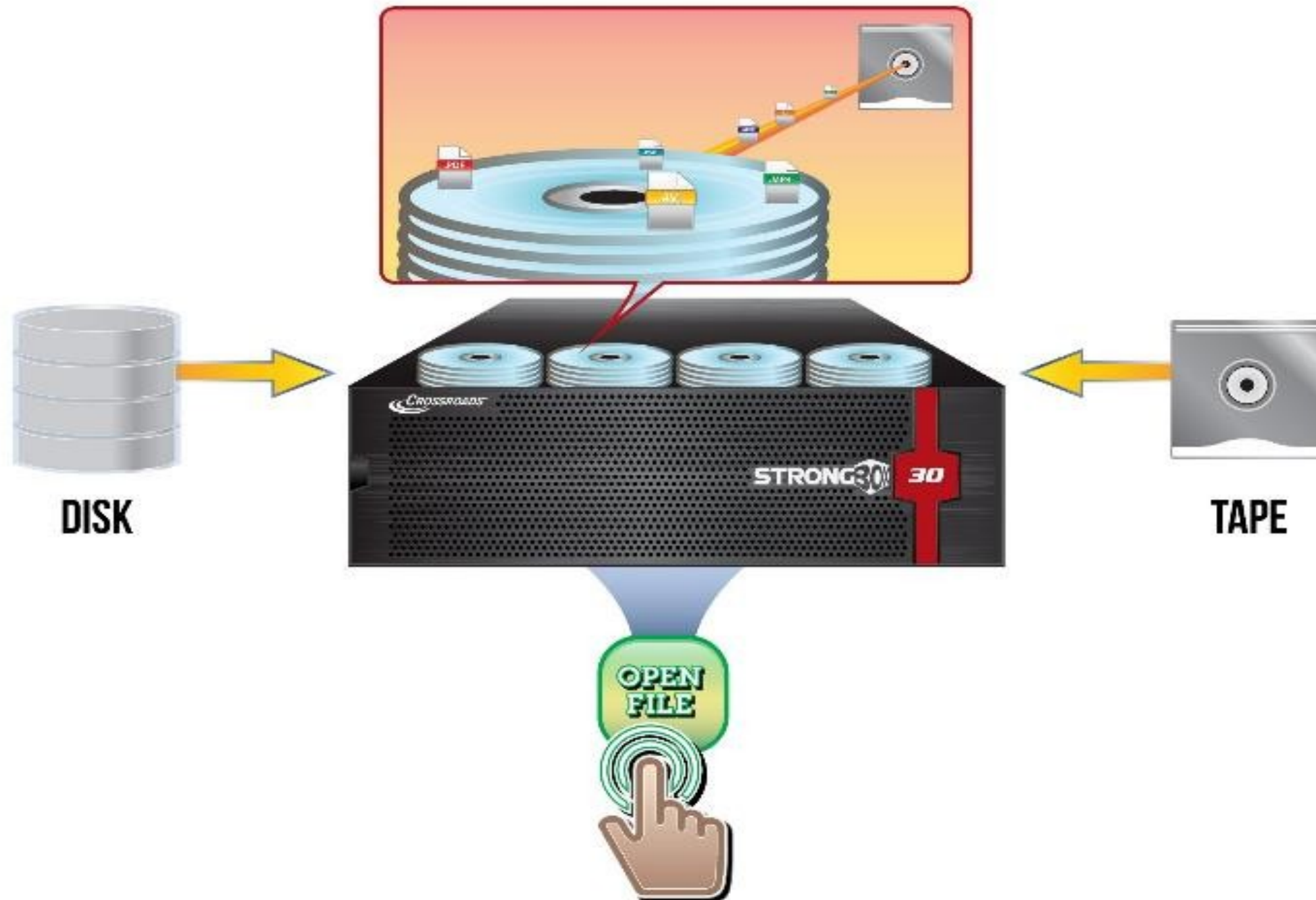
Setup at FHI



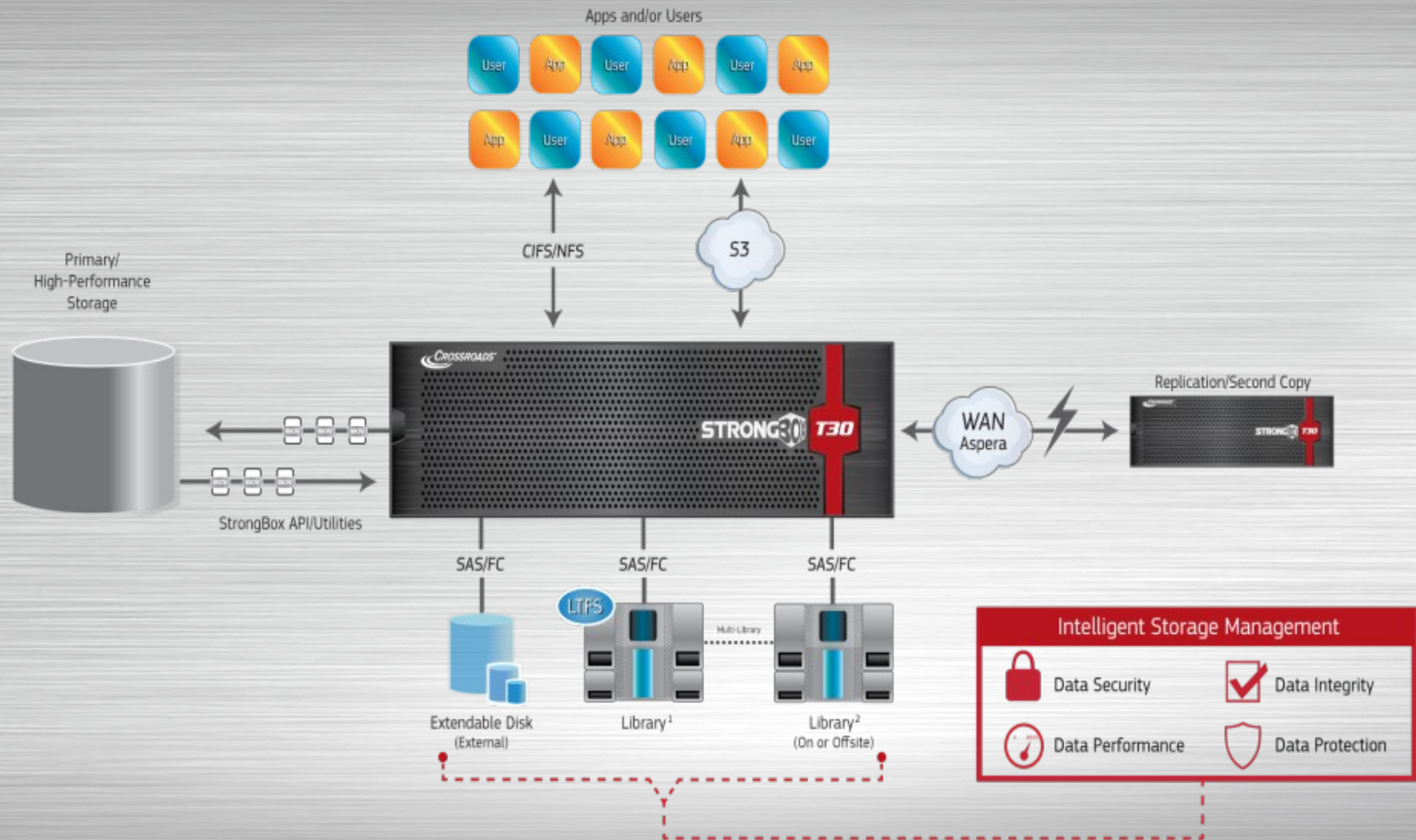
StrongBox



StrongBox (Vendor slide)



StrongBox (Vendor slide)



Open questions (Strongbox)

- Performance
- Hard to test due to cache on disks
- We fund already one bug (Baumblüte)
- We have to dig into the API

Open questions (ArchiverAppliance)

- How to access ArchiverAppliance in CSS?
ArchiverReader? URL?
Michaels python-proxy?
- How to display waveforms with internal Viewer?
- How to organize Access-rights to the mgmt interface? Ht-access? Tomcat-users?

Off topic time recorder

- RaspberryPi with EPICS



Off topic

FEL future upgrade

