



2011 European AFS and Kerberos Conference

Our Mission

To provide the world with a next generation storage platform for unstructured data, enabling deployment of mobile applications, virtualization solutions, and software.

To support the on-going development of relevant critical path standards and open source technologies.



Our Accomplishments

- ◎ Founded in 2007
- ◎ Awarded Small Business Innovation Research (SBIR) Phase I (2008) and II (2009) grants by the US Department of Energy
 - Goal to modernize technology core based on the OpenAFS distributed file system
 - Enterprise storage appliance prototype as key deliverable
- ◎ Initial customers in
 - Global Finance
 - High Energy Particle Physics
 - Government Research
 - Higher Education

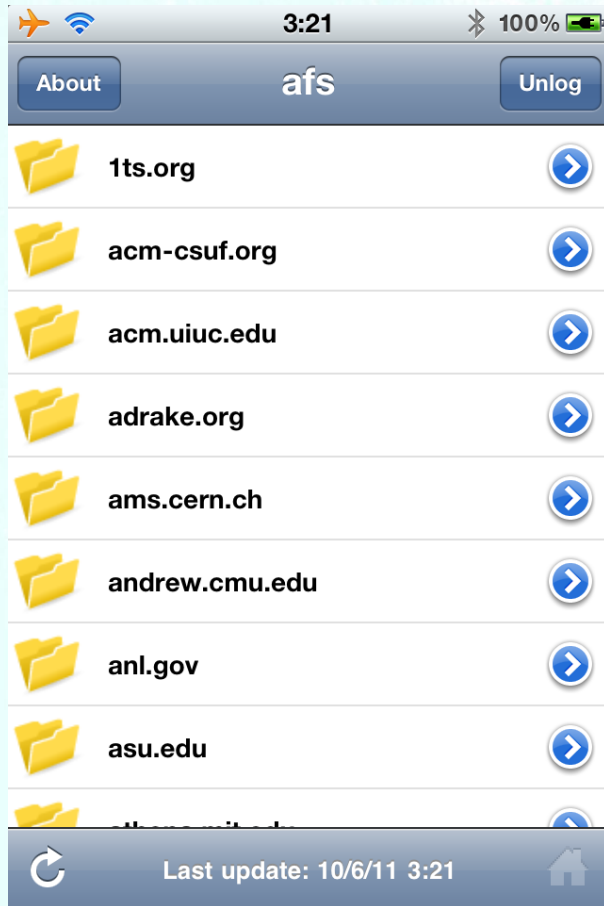


Products and Services: Enhanced Desktop Clients

- ⦿ Enhanced user interface integration
- ⦿ Troubleshooting wizards
- ⦿ Integrated update service
- ⦿ OS Vendor certification
 - Microsoft Windows only



Products and Services: iOS Mobile Clients

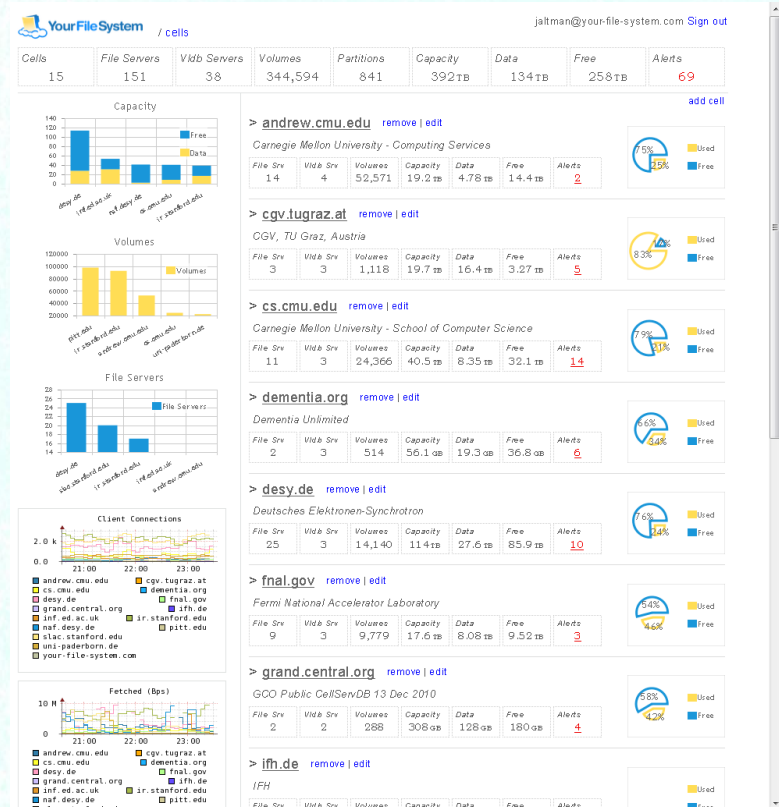


- Features
 - File Browser
 - Integrated document viewing
 - Open documents with third party applications
 - Save documents from third party applications
 - Integrated authentication
 - User to User Document Sharing Service
- Core Application
 - Frameworks available for integration in custom apps



Products and Services: Monitoring and Management Service

- Capable of monitoring multiple cells
- Collects server performance data
- Performs cell consistency checks
- Alert generation
- Cell introspection
- Browser and mobile application



Products and Services: Storage Appliances

- ◎ Integrated Turnkey Storage Appliances
offering a superset of OpenAFS functionality



Products and Services: Training and Support

- ◎ 24-7 Crisis Resolution Services
- ◎ Troubleshooting and Configuration Services
- ◎ On-site and remote training classes for system administrators and end users
- ◎ Custom feature development
- ◎ Services provided for both OpenAFS and YFS



Storage Appliance Road Map

1st Gen



Base file system platform

- Large volume support
- GSS Authentication
- AES-256 RFC3962 encryption
- High scalability
- R/W replication
- IPv6
- Parallel reads
- Unicode directories
- Disaster recovery capabilities
- No single points of failure
- Departmental file servers
- Byte range locks
- Authenticated Fine Grained Coherency
- Many-to-One Authn to Authz Ids

Arbitrary file system import

Automated client update services

Automated Troubleshooting Tools

Mobile clients and SDKs for custom applications

Integrated Monitoring and Management Interface



Storage Appliance Road Map

1st Gen

2nd Gen



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Advanced volume storage

- Data integrity
- De-duplication
- Compression
- Self-healing
- Snapshots & clones
- Storage pools

Additional features

- TCP transport
- Disconnected clients
- Event driven server arch.
- Multiple data streams
- Extended Attributes
- Peer to peer data sharing
- Hypervisor Integration



Storage Appliance Road Map

1st Gen

2nd Gen

2012 Q1

2013 Q1

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Consumer storage appliance



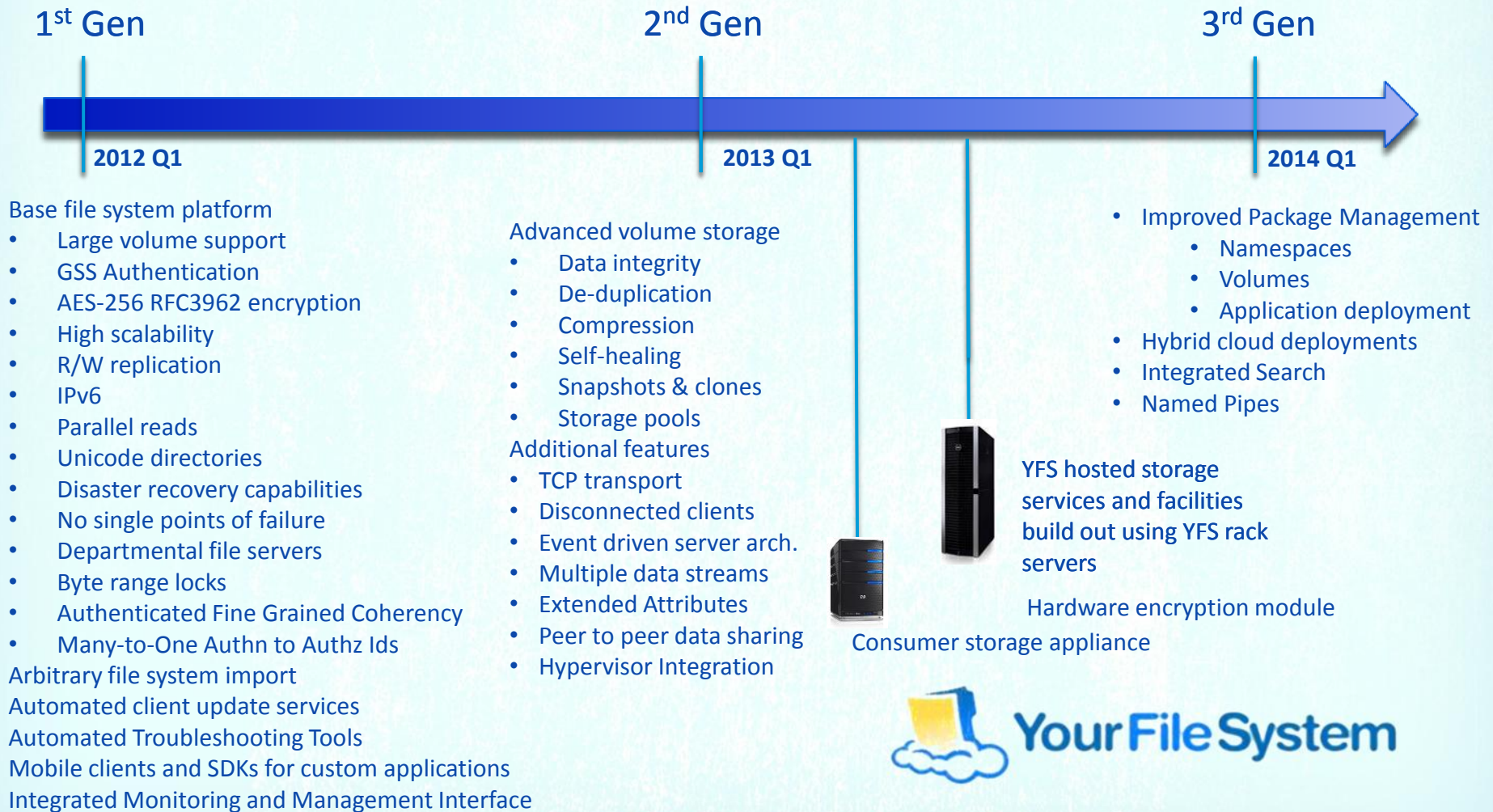
YFS hosted storage
services and facilities
build out using YFS rack
servers

Hardware encryption module

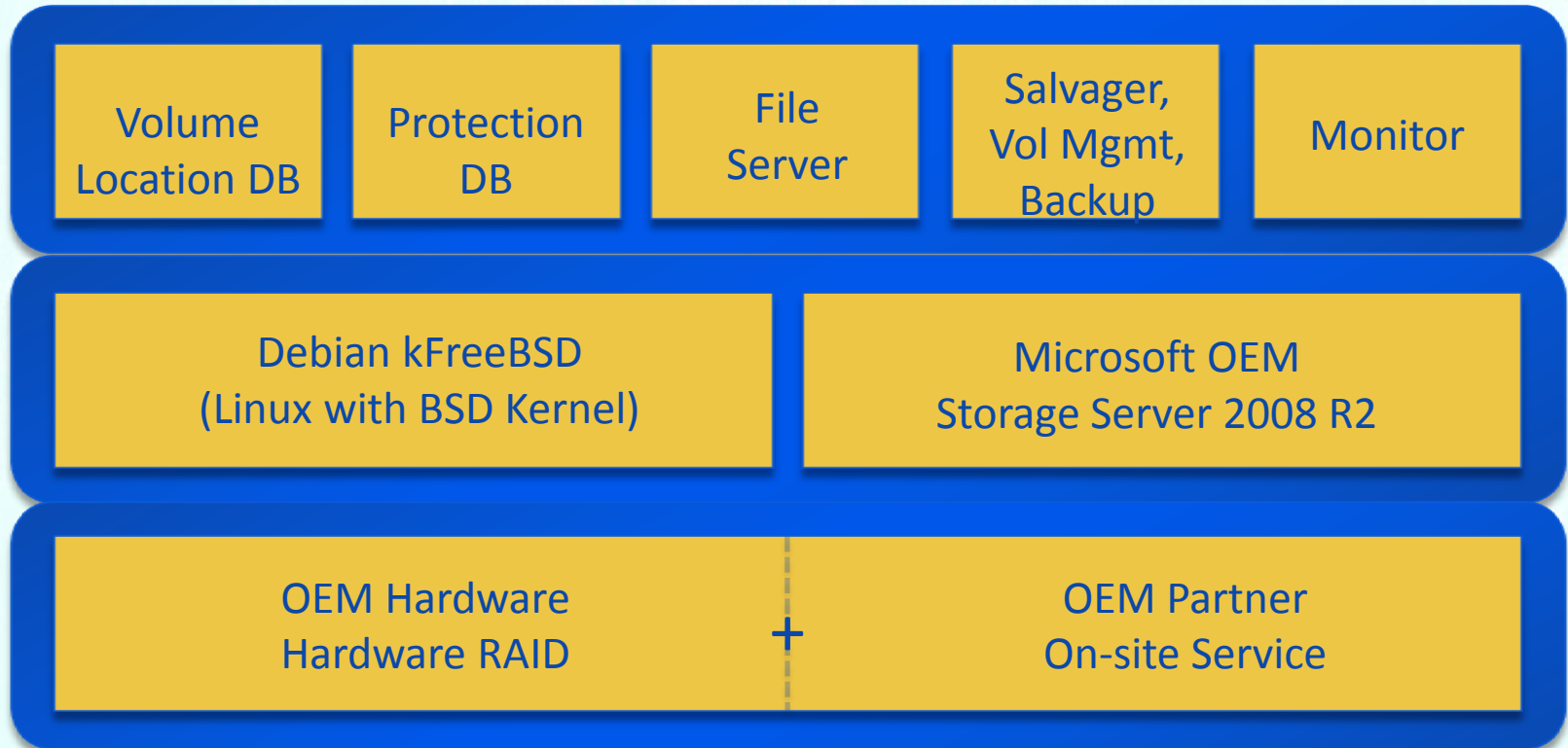


YourFileSystem

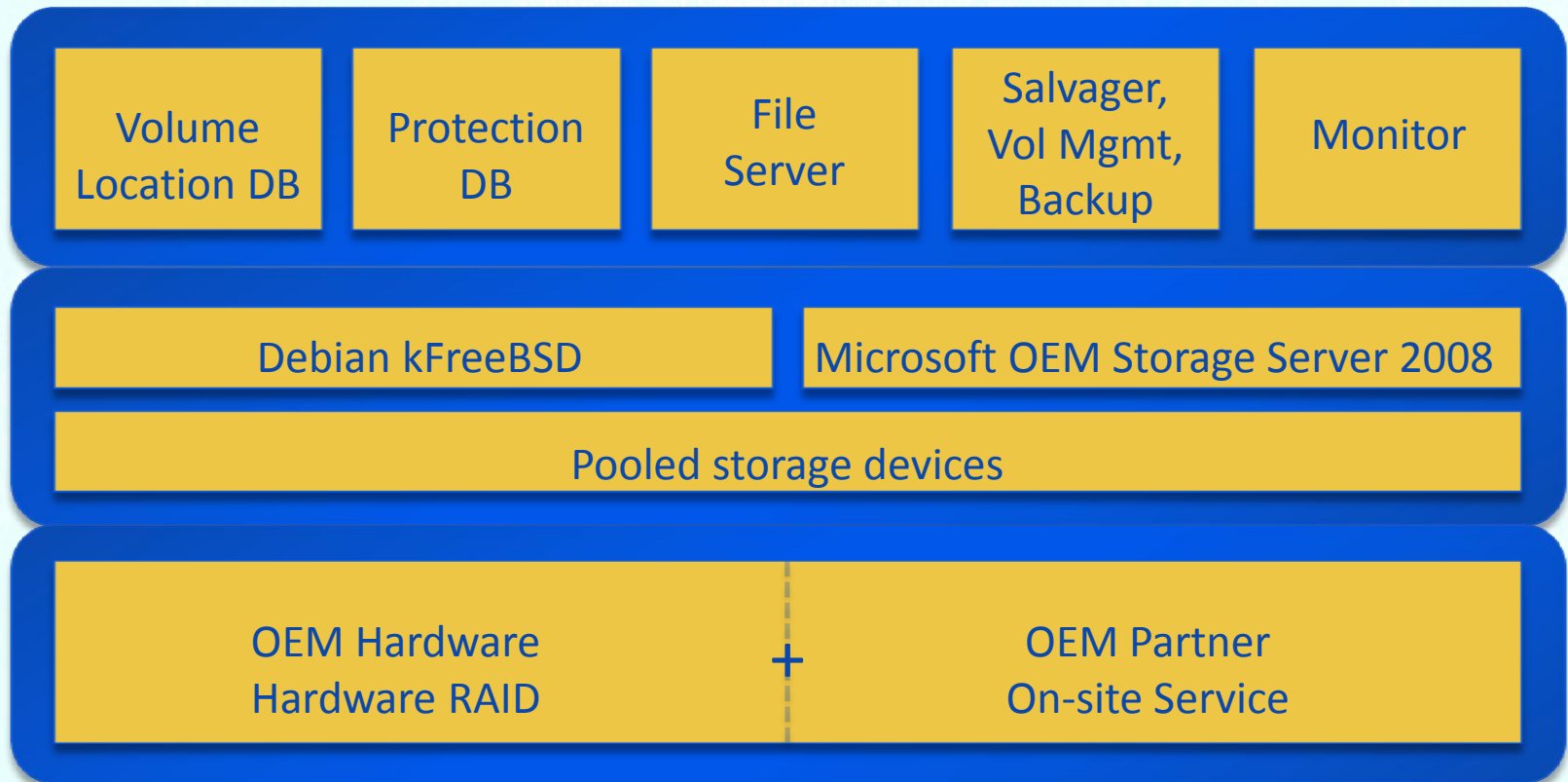
Storage Appliance Road Map



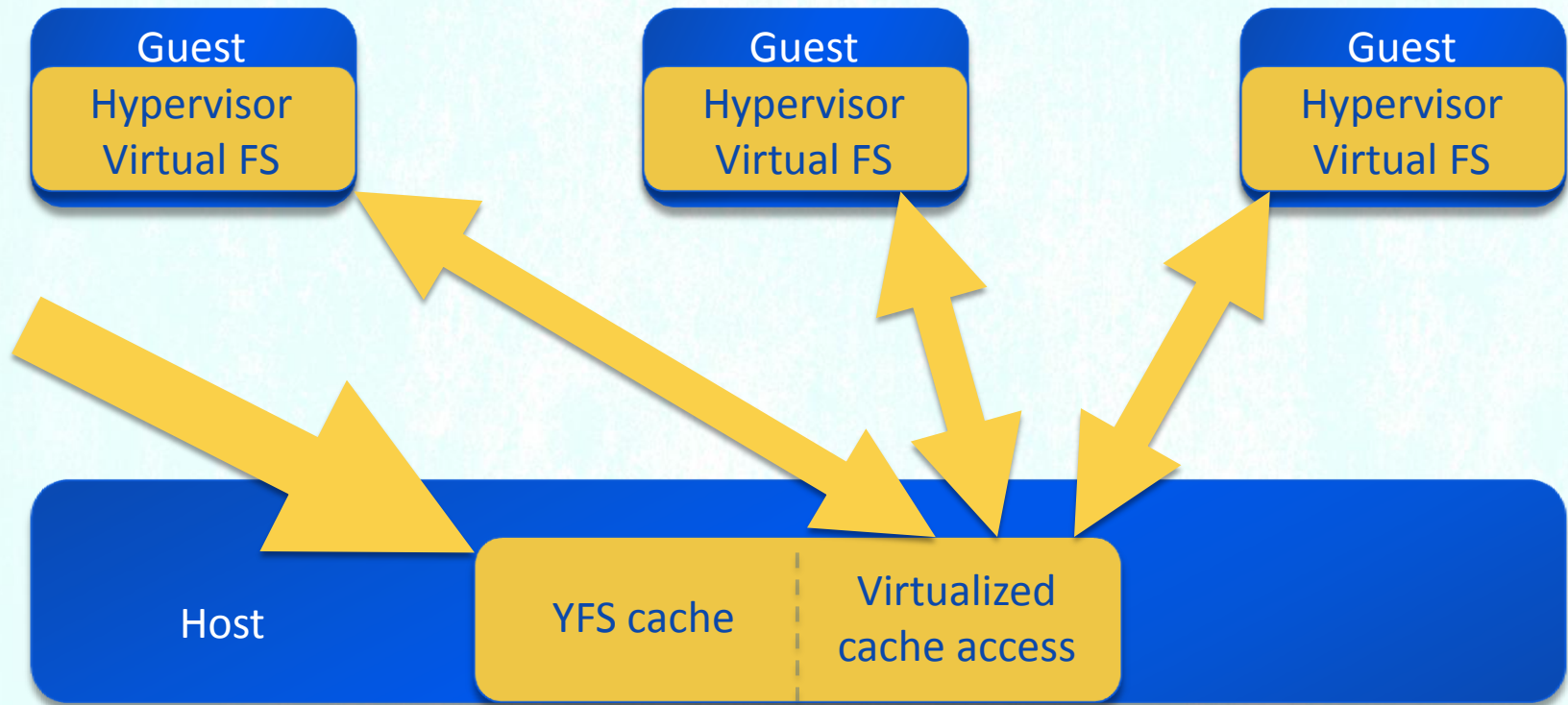
YFS Storage Appliance v1



YFS Storage Appliance v2



Hypervisor Integration



Demos

- ⦿ iOS applications
- ⦿ Monitoring tools





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