

WLCG Transfers Dashboard

A unified monitoring tool for
heterogeneous data transfers.

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Outlines

- Mission
- History of data transfer monitoring tools
- Data volume and retention policy
- Main improvements
- Future work
- Application usage

Mission

ATLAS
FTS + XRootD

CMS
FTS + XRootD

LHCb
FTS

ALICE
XRootD



Mission

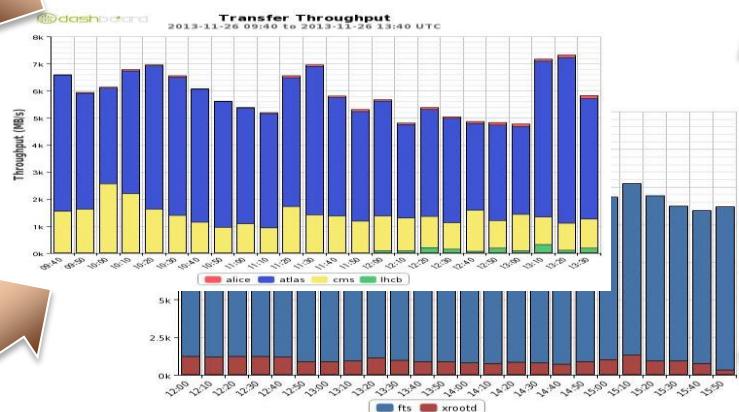
ATLAS

FTS + XRootD

CMS
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LHCb
FTS

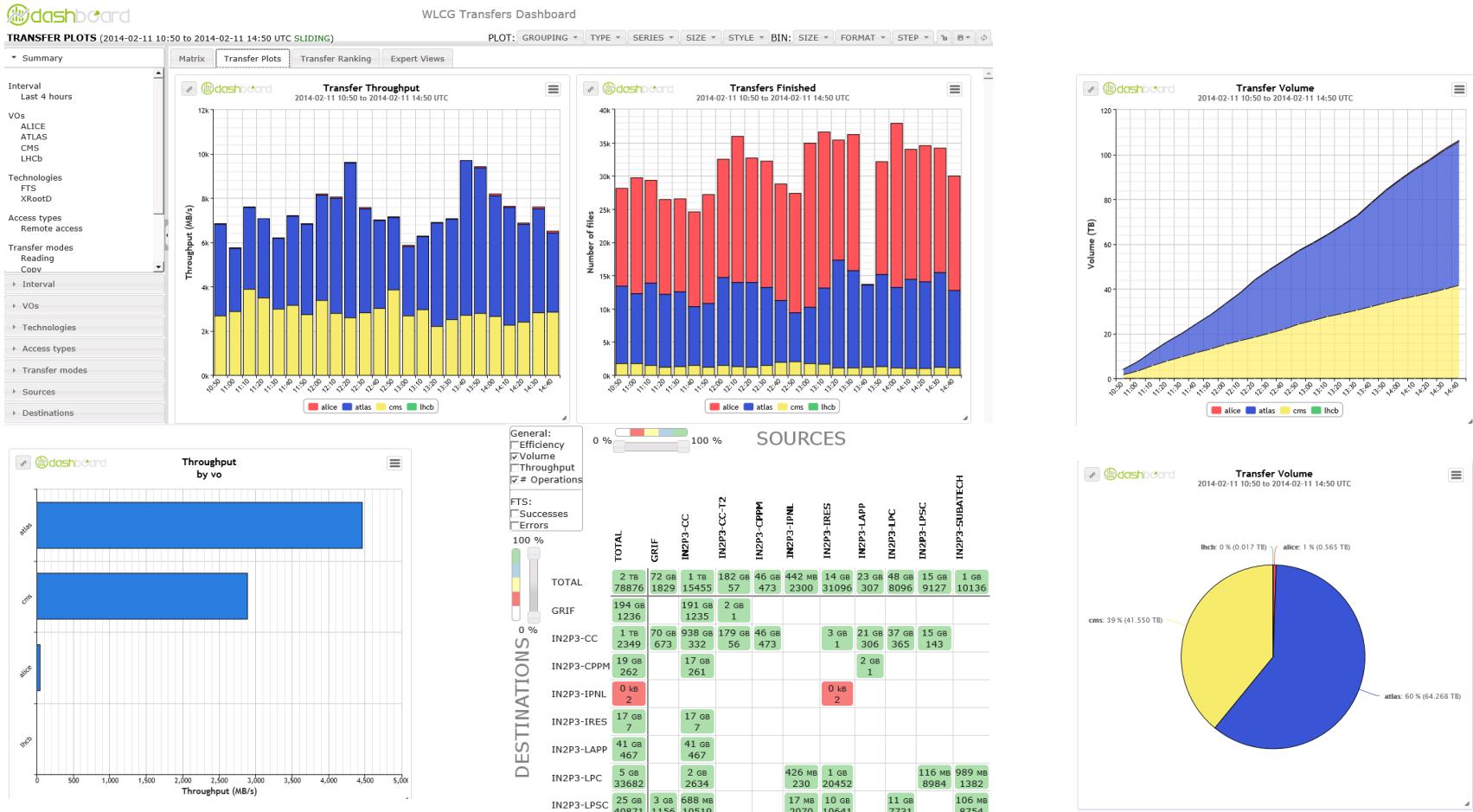
IT-SDC



ALICE XRootD

WLCG Transfers Dashboard

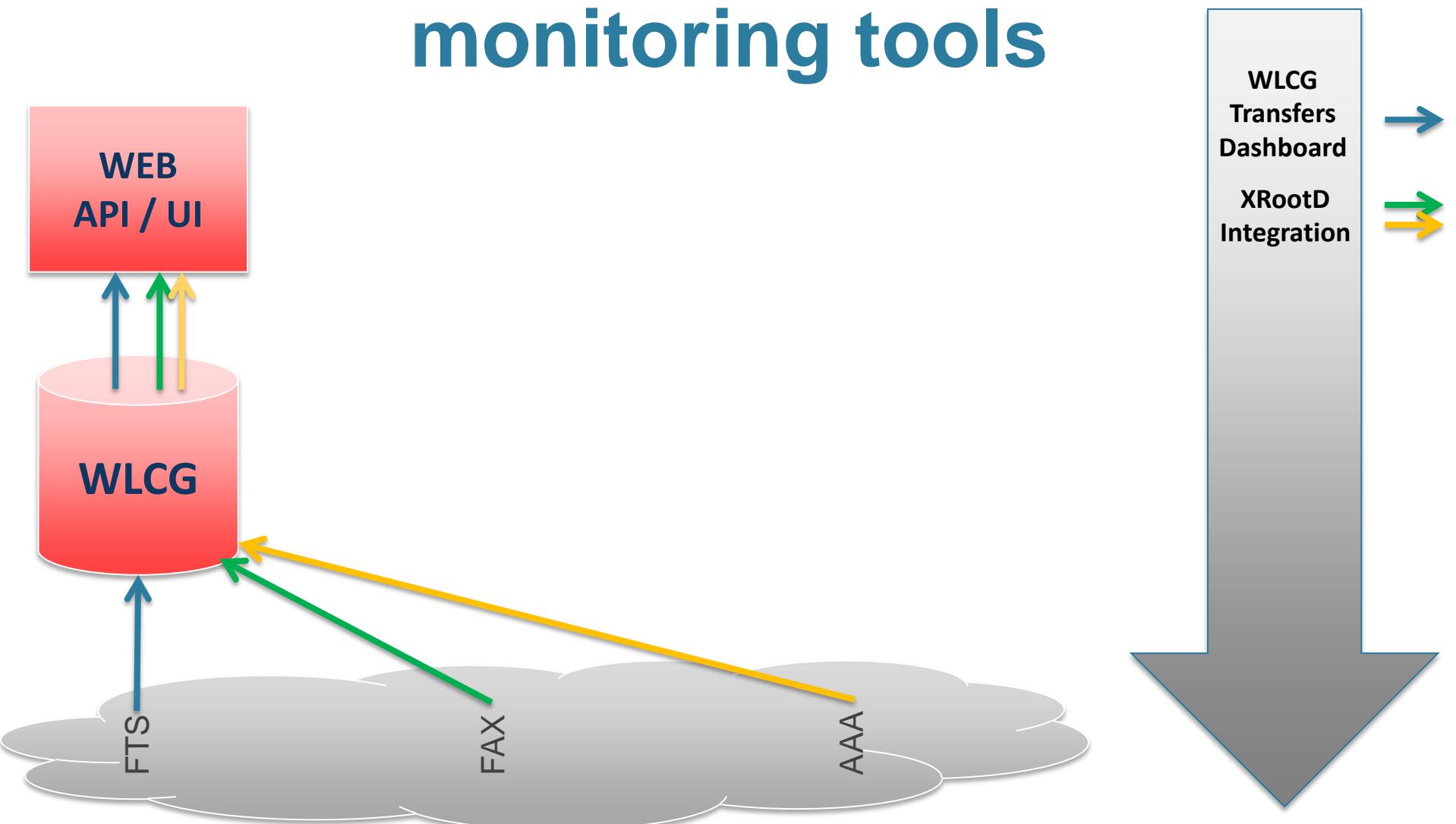
User Interface



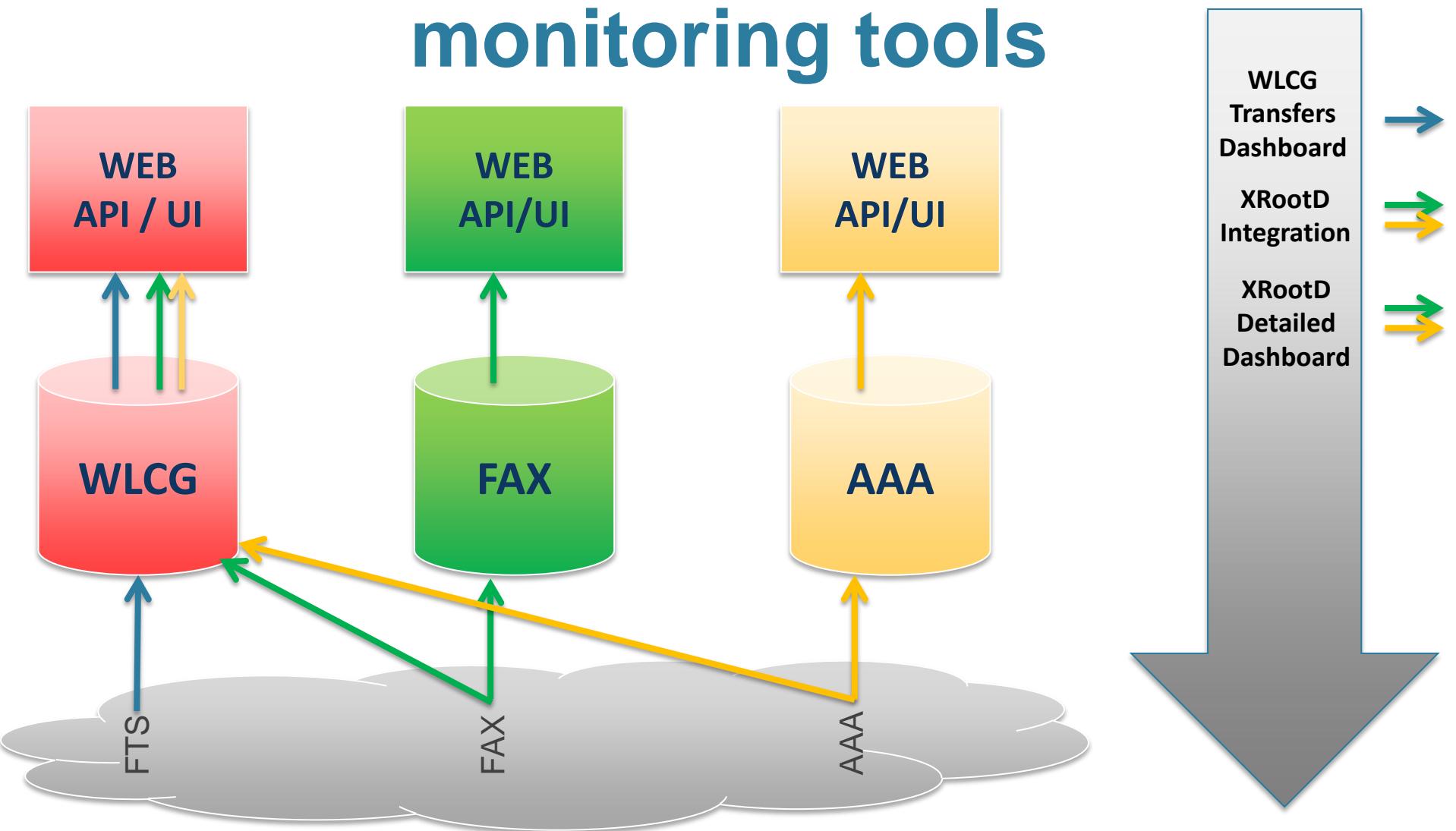
History of data transfers monitoring tools



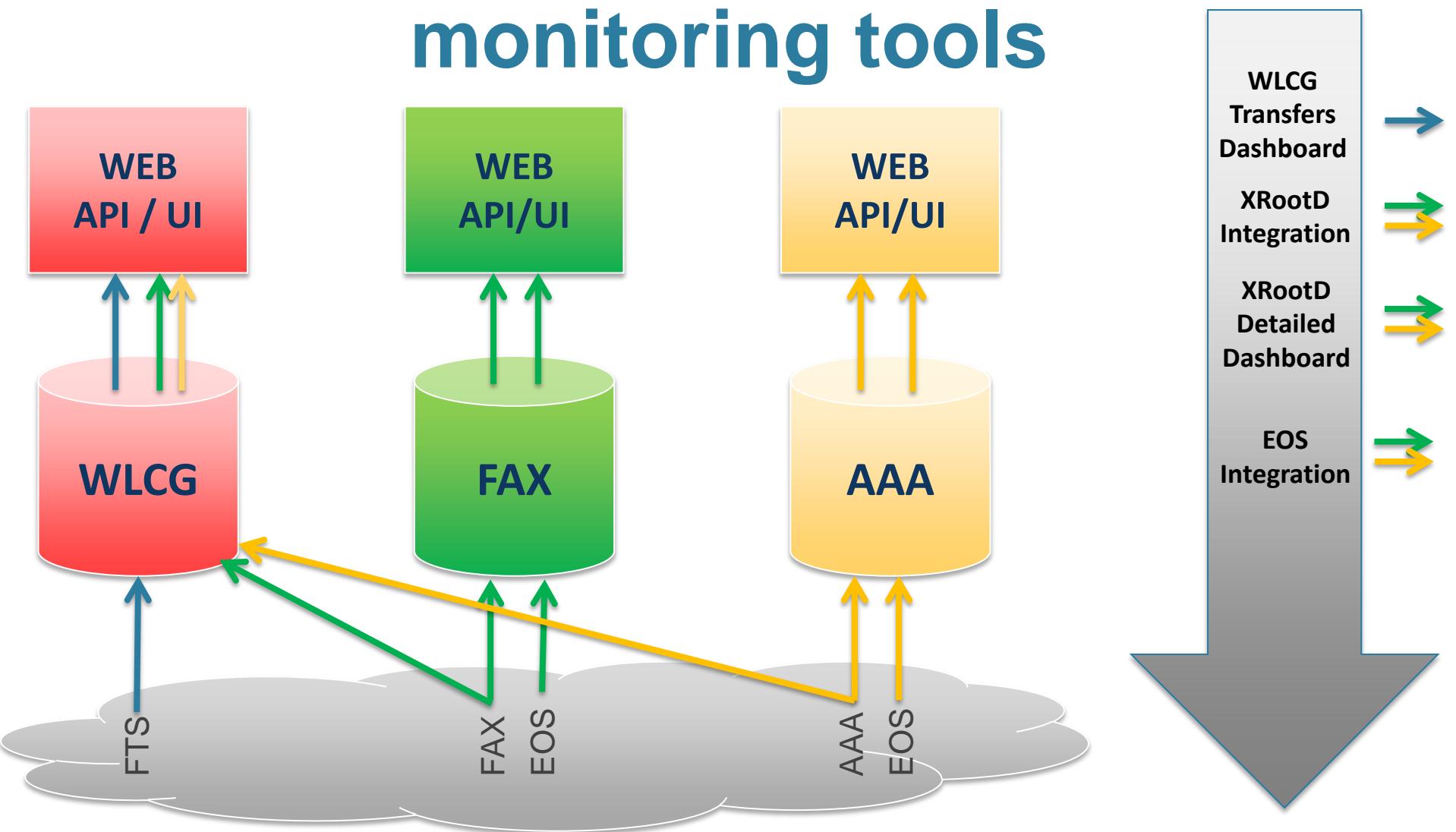
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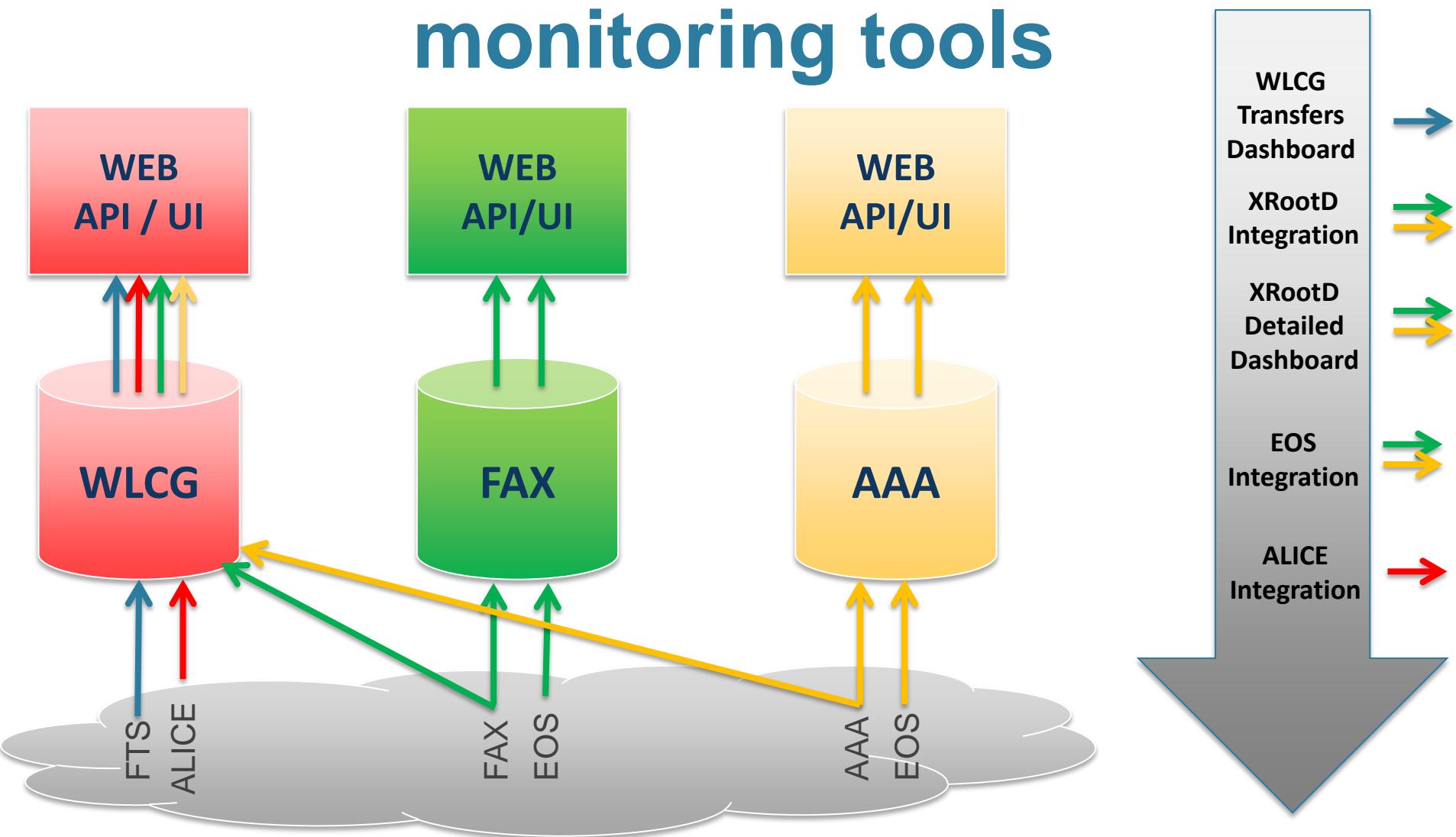
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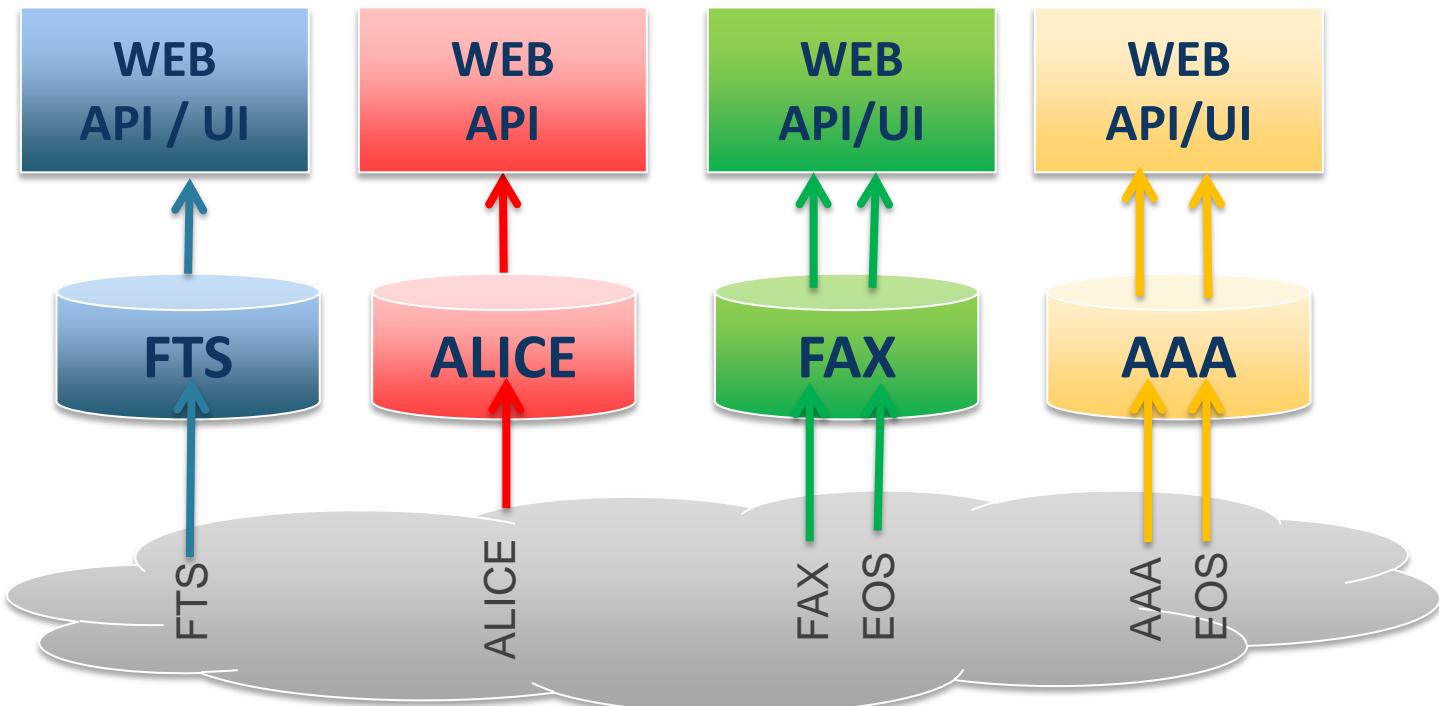


History of data transfers monitoring tools



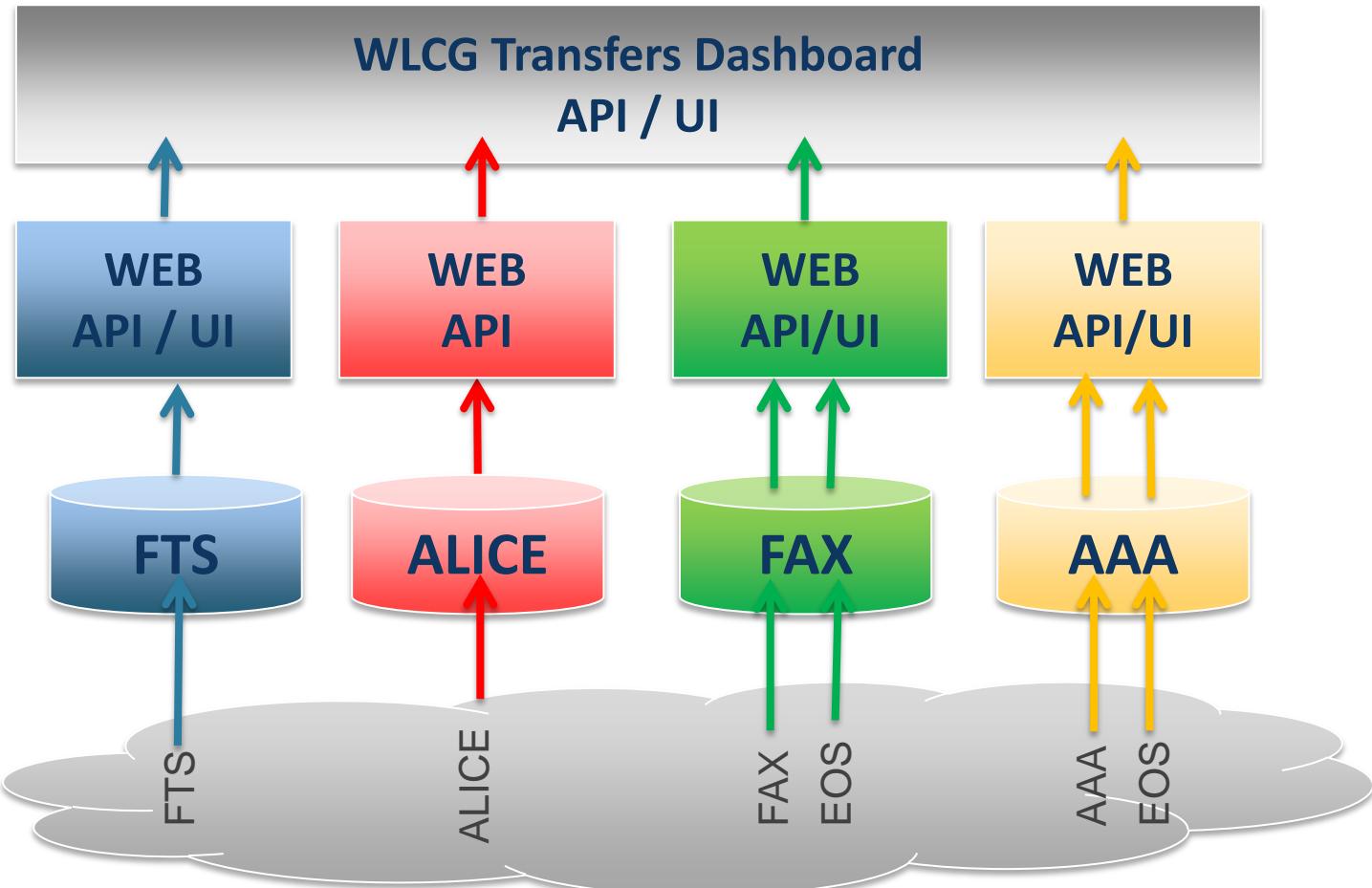
WLCG Transfers Dashboard

Federated approach



WLCG Transfers Dashboard

Federated approach



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since June 2012

- Data are split into 3 schemas
 - FTS, XRootD (AAA and FAX)
 - High optimization (Partition, no Global indexes, ...)

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- Snapshot on Tuesday 11 Feb 2014
 - Shows the usage of the DB at this specific time
 - **No conclusion can be drawn on technology usage**
 - See next slide on data retention policy

Data retention policy

- Two kind of data:
 - Raw:
 - Kept for 3 months for FTS
 - Kept indefinitely for AAA and FAX
 - Statistics:
 - Different granularity (10 minutes, daily)
 - Less than 50GB of data
 - Kept indefinitely

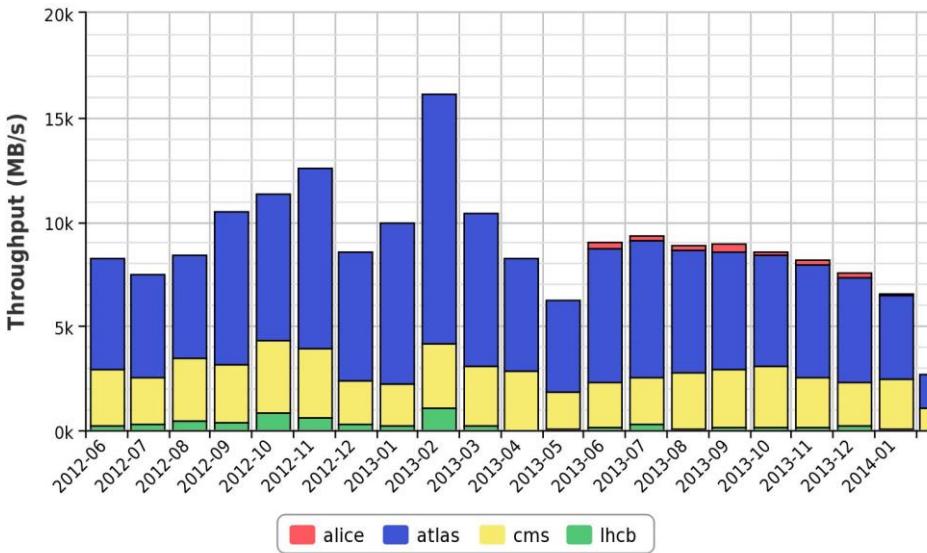
Main improvements

- ALICE traffic is now included
- No more duplication at the raw data level
 - WLCG view is an aggregation over APIs
- FTS Dashboard is much faster
 - Does not have the XRootD overhead
- Long time period can be queried
 - See next slide

Activity since June 2012



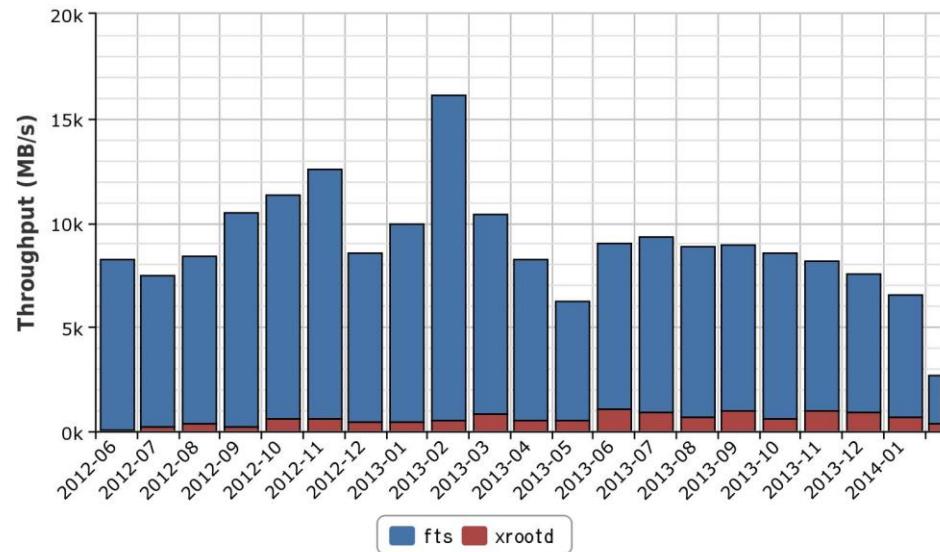
Transfer Throughput
2012-06-01 00:00 to 2014-02-11 00:00 UTC



Impossible with the
old architecture

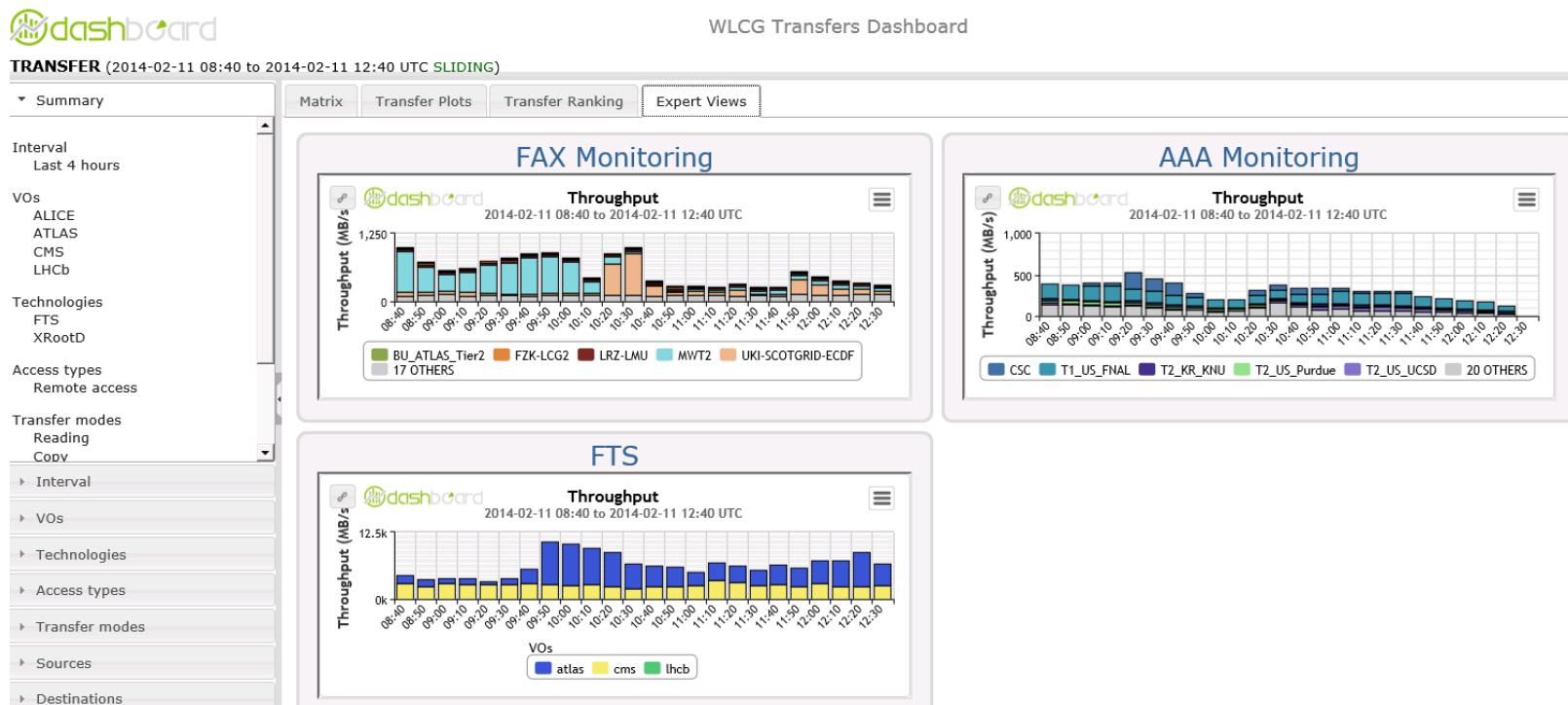


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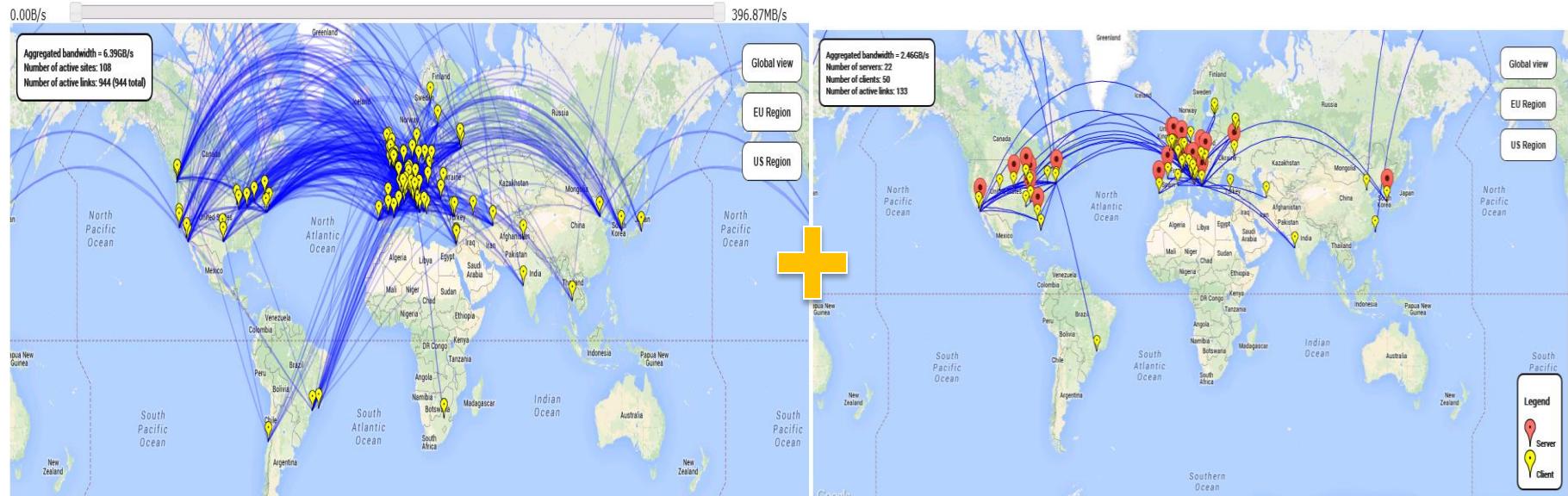
Future work

- Improve the integration of technology specific dashboards

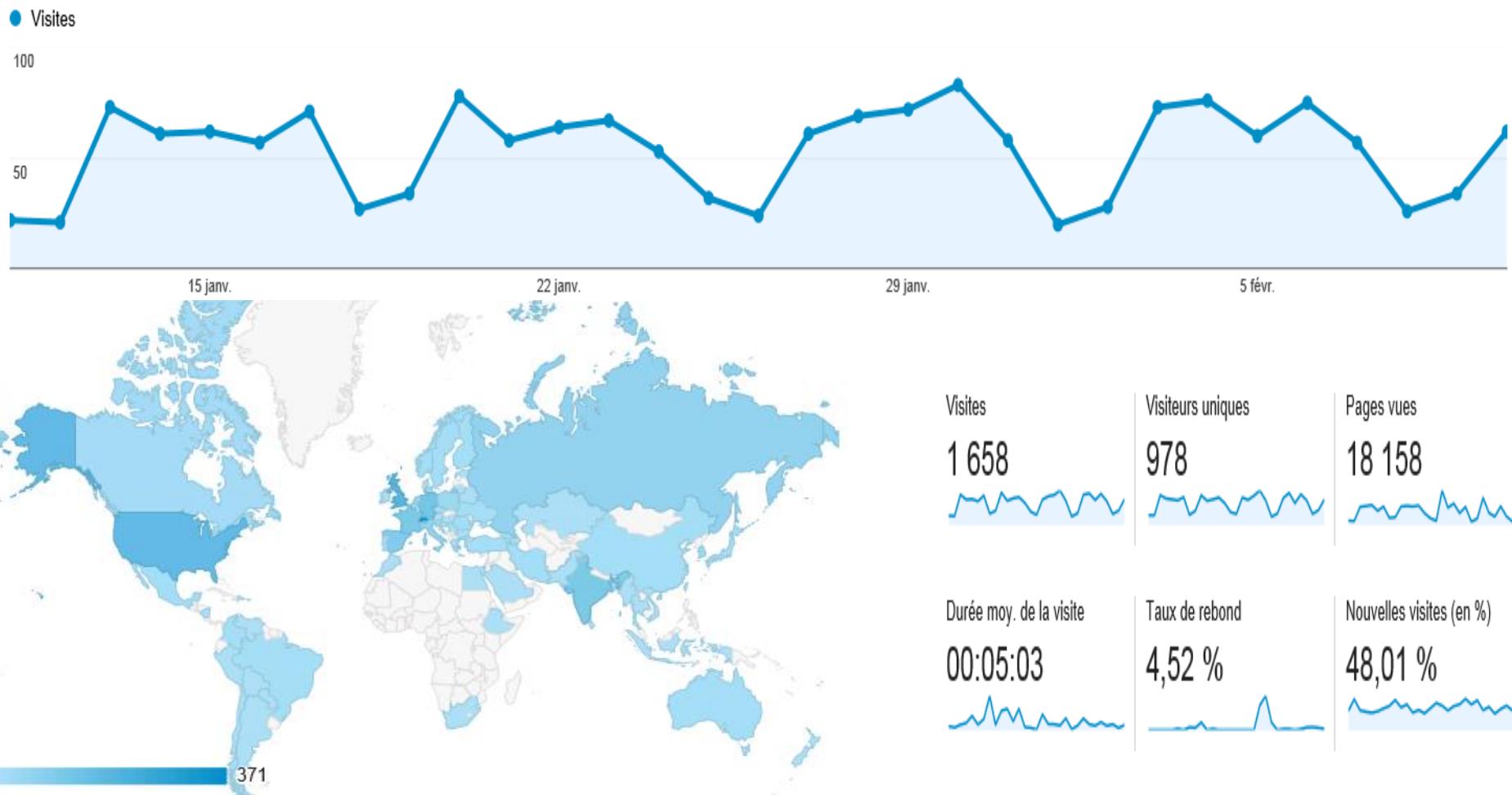


Future work

- Integration of the map view
 - Already available for AAA, FAX and FTS



Application usage including WLCG Home page



Summary

- Completely new architecture
 - Greater flexibility
 - Easier integration of heterogeneous data
- Optimized technology-specific dashboards
 - Aggregated together inside a top level UI

Thanks for your attention



Useful links

- AAA Dashboard
 - <http://dashb-cms-xrootd-transfers.cern.ch>
- FAX Dashboard:
 - <http://dashb-atlas-xrootd-transfers.cern.ch>
- FTS Dashboard:
 - <http://dashb-fts-transfers.cern.ch>
- WLCG Transfers Dashboard:
 - <http://dashb-wlcg-transfers.cern.ch>