

Run II Data Preservation 3/28/2014

Dzero Calibration Database Servers
&
CDF Frontier

Stephen P. White



Dzero Calibration Dbrowsers

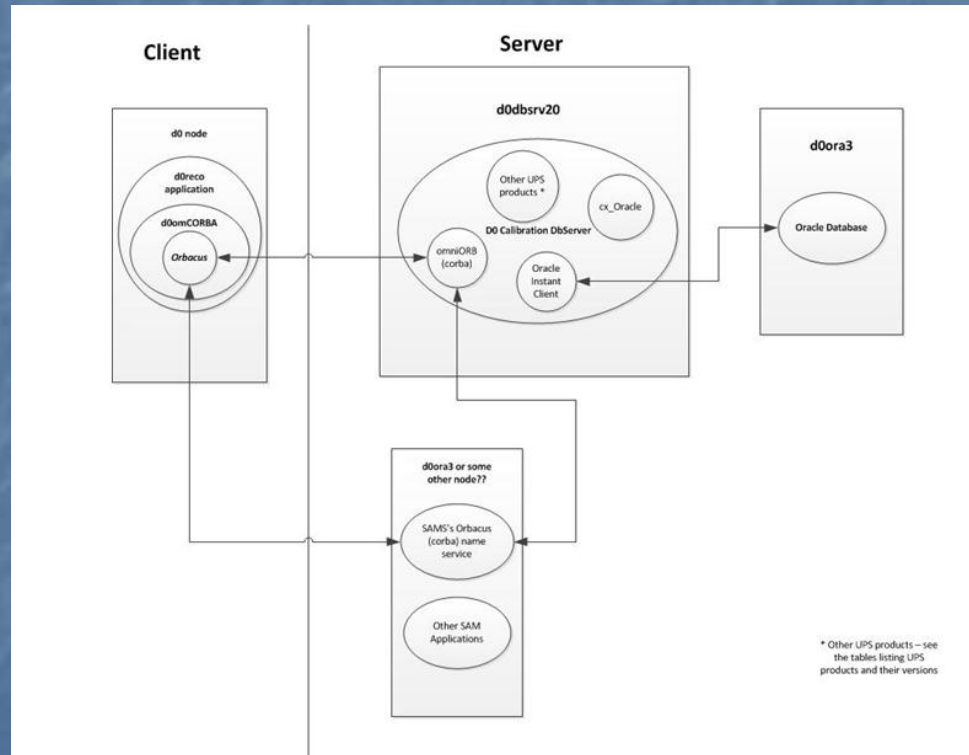
- Created to reduce direct access to the database.
- There are thirteen different server types.
 - SMT, CFT, CPS....
- All built on the same base ups product
 - calibration_db_server

Dzero Calibration Servers

- Three Main Components
 - Oracle
 - Accessed by Oracle Client and cx_Oracle
 - Python
 - Provided through sam_python
 - No longer supported.
 - CORBA
 - Provided through omniORB
 - Using an older version
 - Supported by a small company, with an unknown future.
- All running on SLF 5.2
 - Run2DP requires SLF 6.x on a VM
 - Current host: D0dbsrv20.fnal.gov an aging physical machine.

Dzero Calibration DbServers

General Overview



Dzero Calibration DbServer

- All Products were rebuilt with the latest version.
- All Products built on SLF 6.2
- Testing
 - Reconstruction was run with a subset of data on the old and new servers.
 - Results were compared, successfully.
- On April 1st the NEW Production Calibration DbServers will be started on d0dbcalibgpvm01
 - VM at SLF 6.2
- Outstanding Issue:
 - Corba Name Service must be moved prior to 12/2015.

CDF Frontier

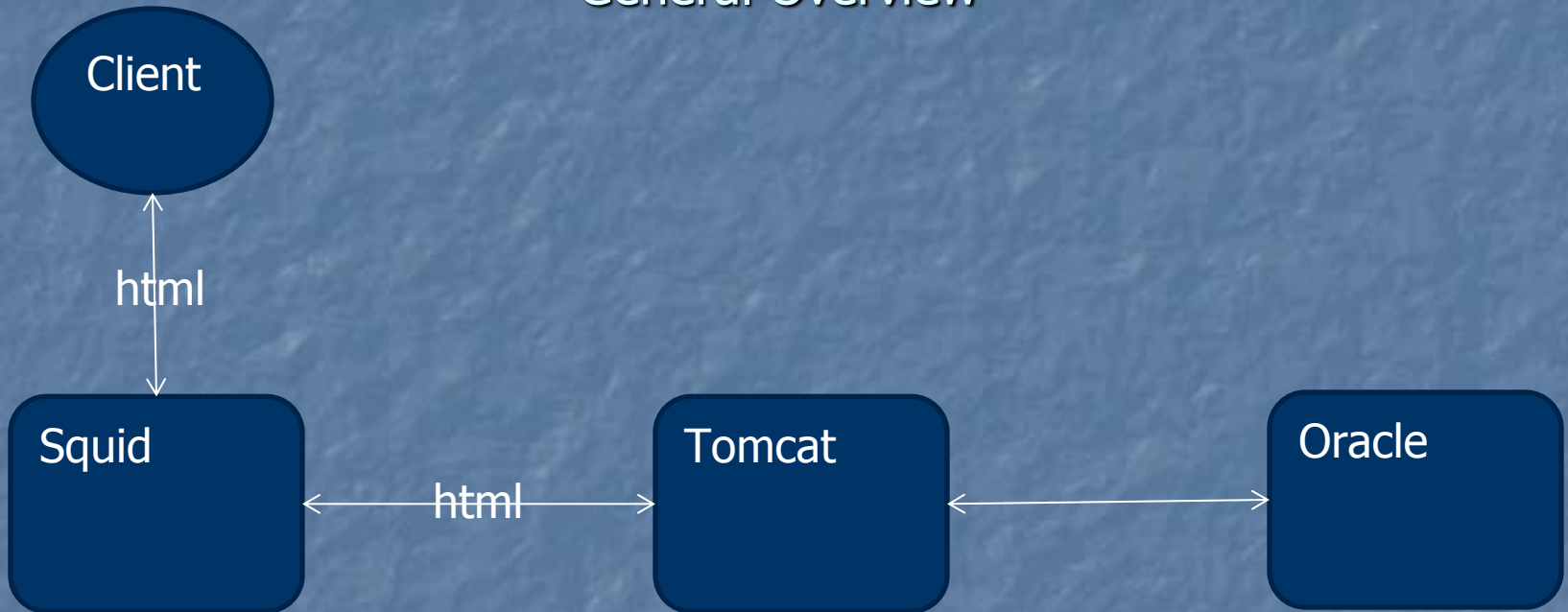
- CDF requested a cached delivery system for Calibration data
 - Database was becoming overwhelmed
- Did not want Calibration DB Servers
 - Heavy CORBA based system
- Frontier was constructed
 - Lighter HTML/XML based delivery system
 - Easier to manage

CDF Frontier

- Three main components
 - Tomcat
 - 5.0
 - Squid
 - 2.6-STABLE18
 - Java
 - 1.4.2-fcs
 - Plugin to Tomcat
- Running on three machines SLF5

CDF Frontier

General Overview



CDF Frontier

- Frontier rebuilt with
 - Java 1.6
 - Tomcat 7
 - Squid kept at 2.6-STABLE18
- Tested
 - Multiple data sets were successfully obtained from newer versions

CDF Frontier

- CDF updated dbfrontier hosts to VMs running SLF 6.x
 - Used existing Frontier
 - Running with no issues
- Plan
 - Existing version has been running very well, continue with it.
 - If issues develop, install new version.