

**C**ontrol system based on a  
**H**ighly  
**A**bstracted and  
**O**pen  
**S**tructure



**WP2**

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# *WP2 Task*

## **WP2 development state**

- Metadata server improvement;
- new UnitServer node.
- control unit load/unload
- control unit dataset's pre configuration;
- Chaos Data Server development

# WP2 Task

## Unit Server

UNIT SERVER NAME	ADDRESS	HEARTBEAT TIMESTAMP
btf-transfer-line	193.206.84.25:8890	Fri Sep 05 15:42:11 CEST 2014

New US

Delete US

Update list

US-CU Assoc.

## CU Types

TYPE NAME
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Add

Remove

Update List

# WP2 Task

Unit Server: btf-transfer-line

CU Type: RTWorkerCU

CU ID:

Control Unit Load Parameter:

Driver specifications

NAME	VERSION	INIT PARAM

Auto load on unit server registration

# WP2 Task

Unit Server: btf-transfer-line

## Work Unit Associations

UNIQUE ID	TYPE	AUTOLOAD	STATE
rt-sin-a	RTWorkerCU	true	Registered
rt-sin-b	RTWorkerCU	true	Registered
rt-sin-c	RTWorkerCU	false	one

Load Instance

Unload Instance

Remove Association

Update List

Switch Autoload

## Attribute Configuration

ATTRIBUTE NAME	MAX VALUE	MIN VALUE	DEFAULT VALUE
points	3000	0	300

Save Attribute

Add Attribute Config

Remove Attribute Config

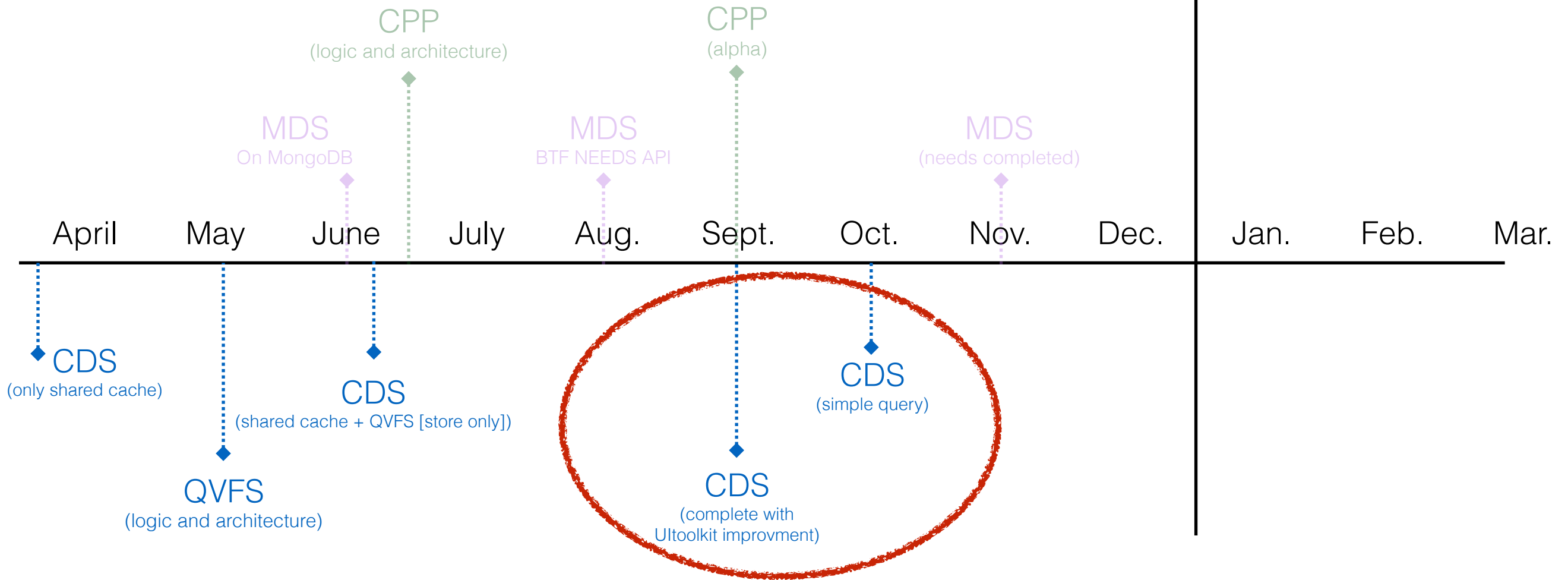
# WP2 Task

## Development Data Cloud

- three couch base server;
- mongodb, three router and two shard with replication;
  - no HA support on current legal driver i have to make one by myself;
- filesystem....on my macintosh!!!;

# WP2 timeline features

2015



further features, test, documentation

CDS - Chaos Data Proxy

MDS - Metadata Server in JAVA

QVFS - Querable Virtual File System

CPP - Chaos Push Proxy

# WP2 Task

## Chaos Data Service

- push of data (live and HST)
- stage data indexing
- query on range of data -> **to finish**



# WP2 Task

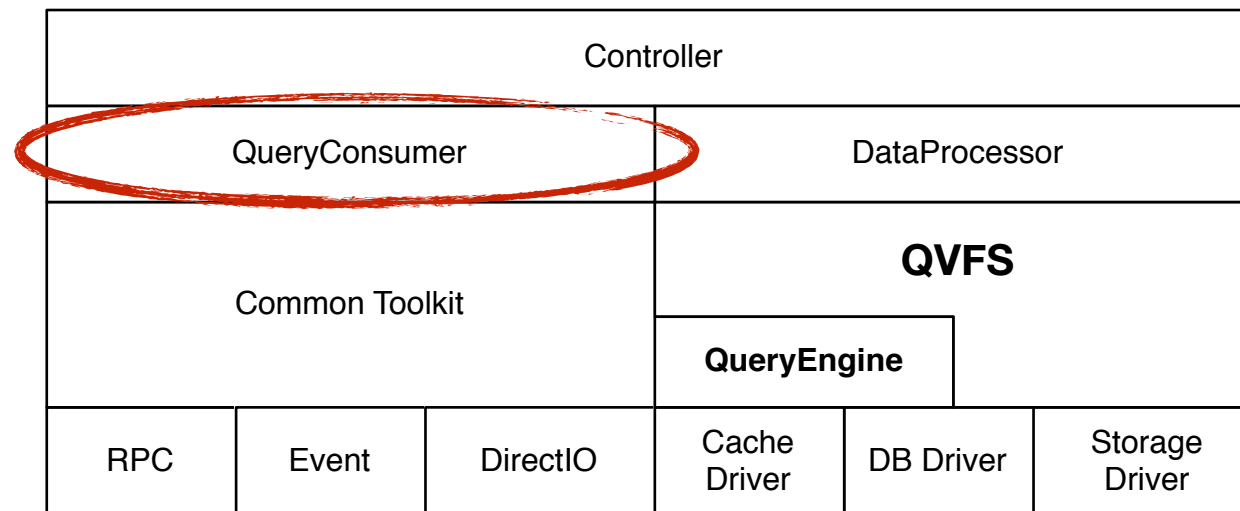
## Chaos Data Service(CDS)

- DAQ part: every data pack is staged in a specified stage are of the real filesystem and tagged on database
- Indexer part: every stage chunk is analyzed in every data pack and for each one:
  - the data pack is read, a minimal index is created with his location in the final data file
  - when all stage chunk is scanned, it is erased
  - a journal file for the stage chunk scan operation si used to recover scanning failure

# WP2 Task

## CHANGE to WP2 development flow

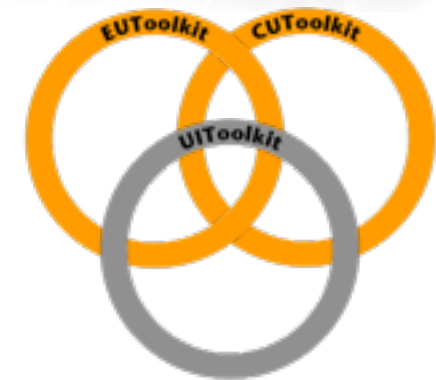
MDS and Chaos Data service will be merged (in the future asap)



Query consumer will perform also MDS query



**!CHAOS**



*thanks you*