



Student data integration using CUD Receiver

David White, Ben Bridle and Adrian Cuthbertson

www.it.ox.ac.uk

contact@it.ox.ac.uk

Today's presentation

- Background and the 'CUDA Receiver'
- Support and timing
- Technical set up (Adrian Cuthbertson)
- Demo (Ben Bridle)
- Questions

Background

- Since January 2015 student data has been available via the Core User Directory (CUD) for use in local IT systems
- ‘CUD Receiver’ tool was developed as a shared integration tool, but is not supported by IT Services
- SITS:Vision for Colleges (‘SVFC’) project has rebuilt the CUD Receiver and brings it under IT Services support

Background

- New CUD Receiver:
 - v1 provides existing student data (already built)
 - v2 to add SVFC data for participating colleges
- From October: v2 available to all colleges and departments (whether using SVFC or not)

SVFC - 14 participating colleges

Christ
Church

St Hugh's

Balliol

St Hilda's

Green
Templeton

Lady
Margaret
Hall

Wadham

Exeter

St Anne's

Hertford

St Peter's

Worcester

St Edmund
Hall

Kellogg

Data provided

As standard

Personal details (IDs, contact info)

Course information

Exam entries and results

Suspensions

Advisors/supervisors

Research thesis details

Degree awards

University fee

Application data

Emergency contact (coming soon)

SITS for Colleges (planned)

Collections

Groups & group memberships

College members

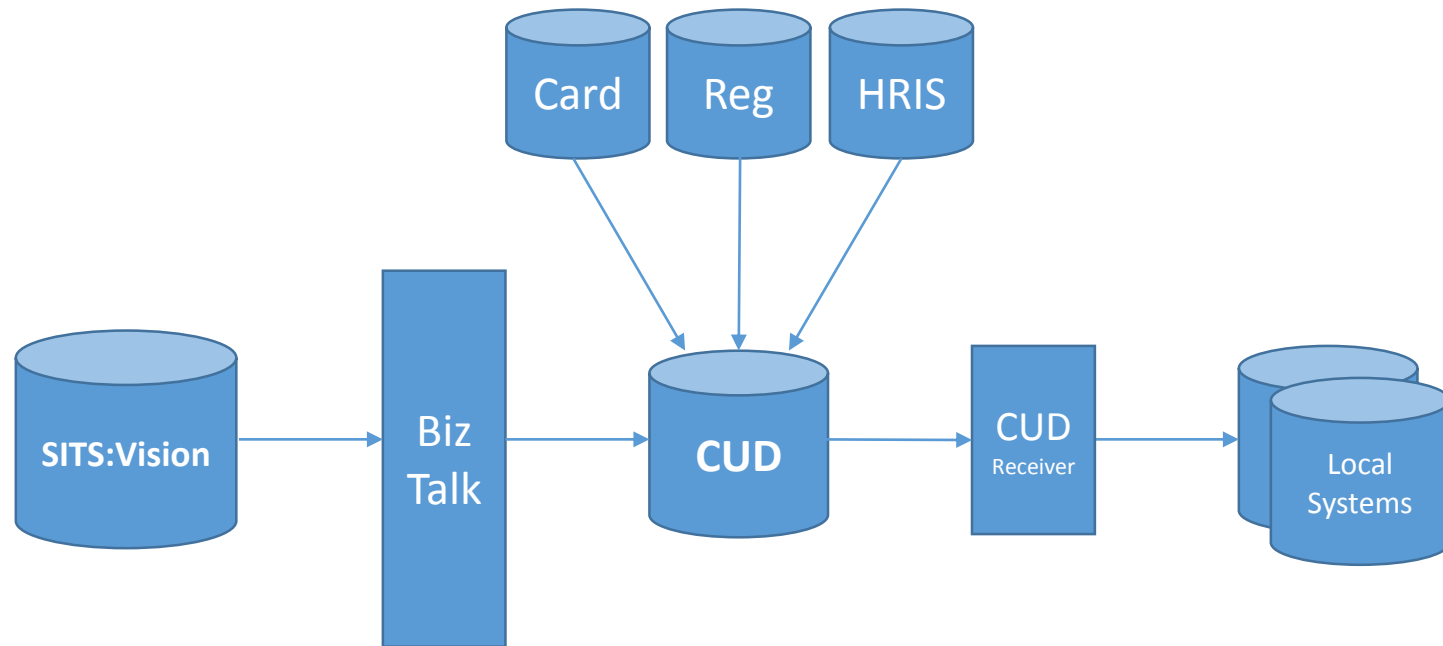
Contact info <

Employment <

Personal tutors (UG)

College fee

(Very simplified) data flow



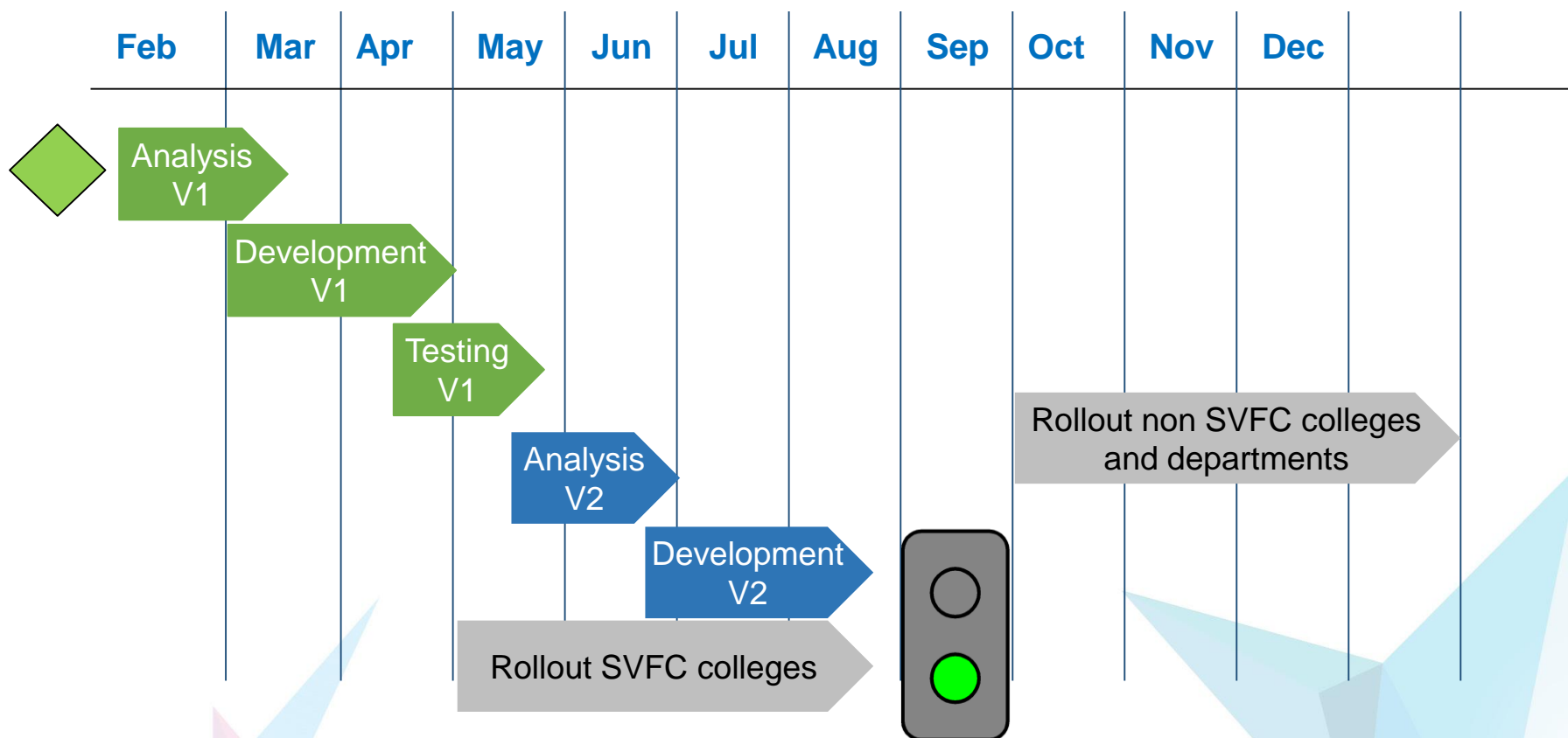
Benefits

- Up-to-date student information
- A supported version integration method for all colleges and departments
- Improved performance
- Long-term viability

Support

- v2 ('off the shelf') will be fully supported by IT Services for any college or department.
- Supporting documentation:
 - Installation document including a list of supported versions of platforms /servers
 - User / install journey from v1 to v2
 - User / install journey from scratch to v2
- Only standard installations will be supported
- Issues caused by local modifications may incur support fees (£430 per day exc. VAT)

Timeline

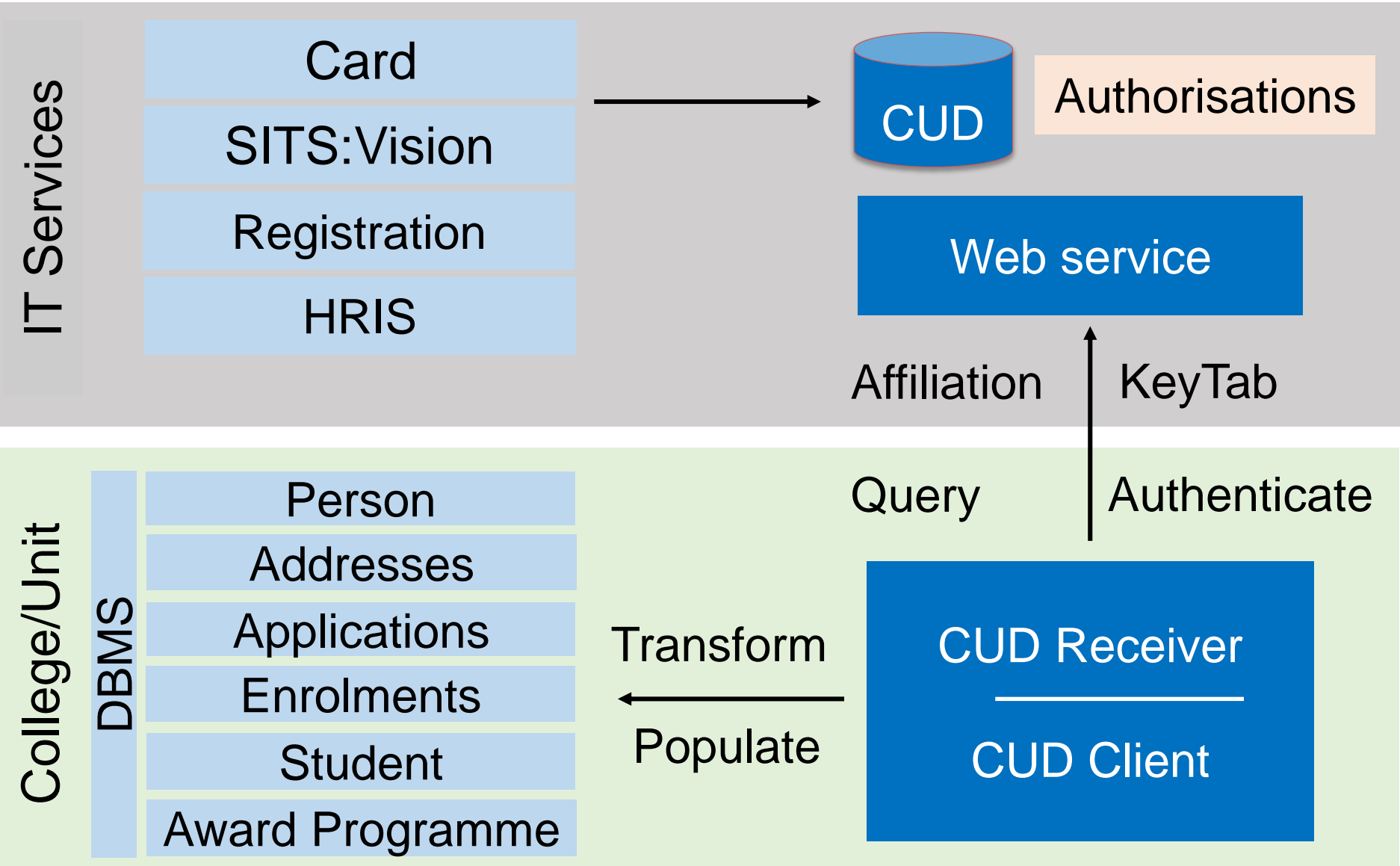


Technical set up

Adrian Cuthbertson



CUD Receiver to CUD Client



CUD Client

- Developed/supported officially by Identity and Access Management (CUD team)
- Integrated Java application managing set-up, transform, query, ddl/sql generation, logging
- Generates SQL INSERTS
- Plug-in architecture for extensions
- Minimised set-up/config
- Multi-platform, multi-DBMS
- Extendible
- Performant
- Managed on GitHub – Open-Source

Demo

Ben Bridle



Registration, set up and operation

Four steps:

- Register for CUD Access
- Create a KEYTAB
- Set-up on Your Server
- Daily Operation

1. Register for CUD Access

- Register for access to CUD UI
- Obtain ITSS kerberos principal for your SSO_username
- Register kerberos cud/service_principal for your server domain

**HEAT
request to
IAM**

2. Create a KEYTAB on a secure server and copy it securely to your server

**On
secure
server**

3. Set-up on Your Server

- Download/install Java 1.7 or 1.8
- Create a new folder/directory
- Download CUD-Client-0.1.0.jar from GitHub
- `java -jar CUD-Client-0.1.0.jar – init`
- Edit your config/query for your affiliation code
- Edit your config/login.conf for your KEYTAB
- Use config/DDL to create your SQL TABLES

Once-off
on your
server

4. Daily Operation

- `Java -jar CUD-Client-0.1.0.jar –runall`
- Check log
- Run sql command to load out/generated_sql

**Daily
procedure
~15
minutes**



Thank you

Student Systems Programme

01865 (2)89975 / ssp@admin.ox.ac.uk

www.admin.ox.ac.uk/aad/studentsystems/programme

David White (Programme Manager)

01865 289861 / david.white@it.ox.ac.uk

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