FUTURE Directions

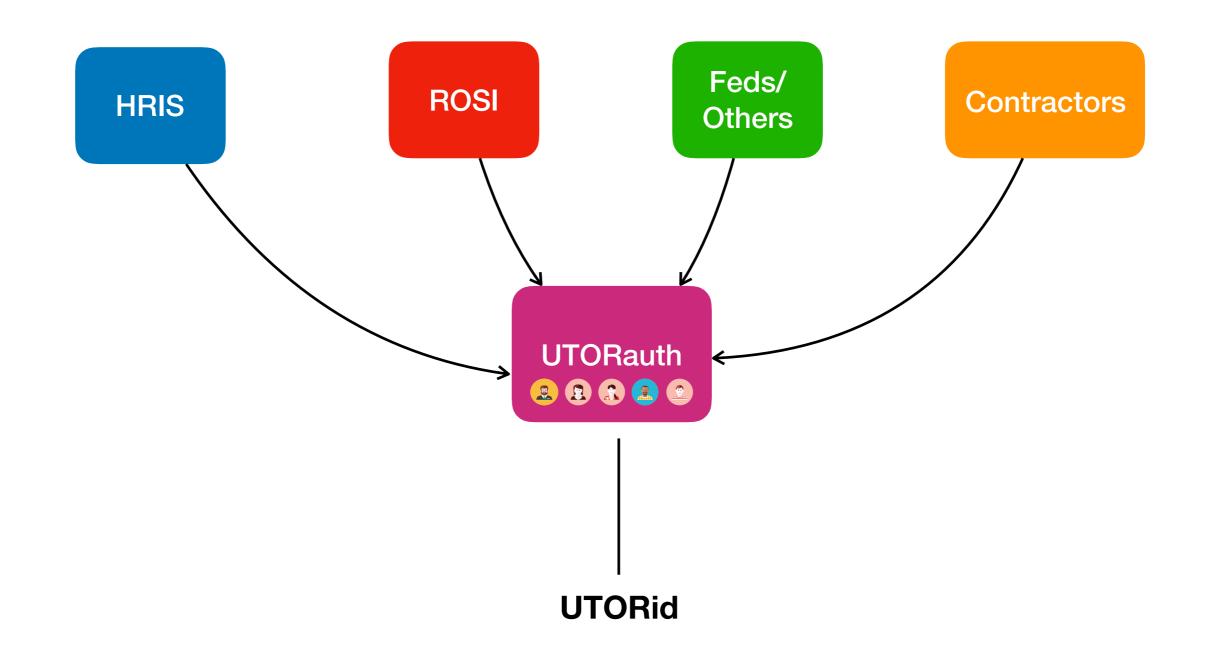
Identity and Access Management at UofT

Overview

- Account Provisioning
- Group Management
- Guest Accounts

There was an idea...

 UTORauth: let's create a link between Systems of Record



There was an idea...

- UTORauth: let's create a link between Systems of Record
- Hard to do: differences in names cause duplication

Duplication

UTORauth

Joe Smith

1984-06-08

Joe Smith

1984-06-08

Jane Doe

1951-02-15

Bob Plant

1969-01-12

Robert Plant

1969-01-12

ROSI



Joe Smith

1984-06-08



Jane Doe

1951-02-15



Bob Plant

1969-01-12

HRIS



Joe Smith

1984-06-08



Jane Doe

1951-02-15



Robert Plant 1969-01-12



This is the

same guy!

Duplication

Last Year	1297 total 890 (68%) detected automatically 407 (31%) submitted manually
Last 6 Months	894 total 633 (70%) detected automatically 261 (29%) submitted manually
Last 3 Months	436 total 280 (64%) detected automatically 156 (35%) submitted manually
Last Month	181 total 97 (53%) detected automatically 84 (46%) submitted manually
Last Week	67 total 16 (23%) detected automatically 51 (76%) submitted manually

Another idea...

What if we could ask the end user if they already had an account?

Current Model

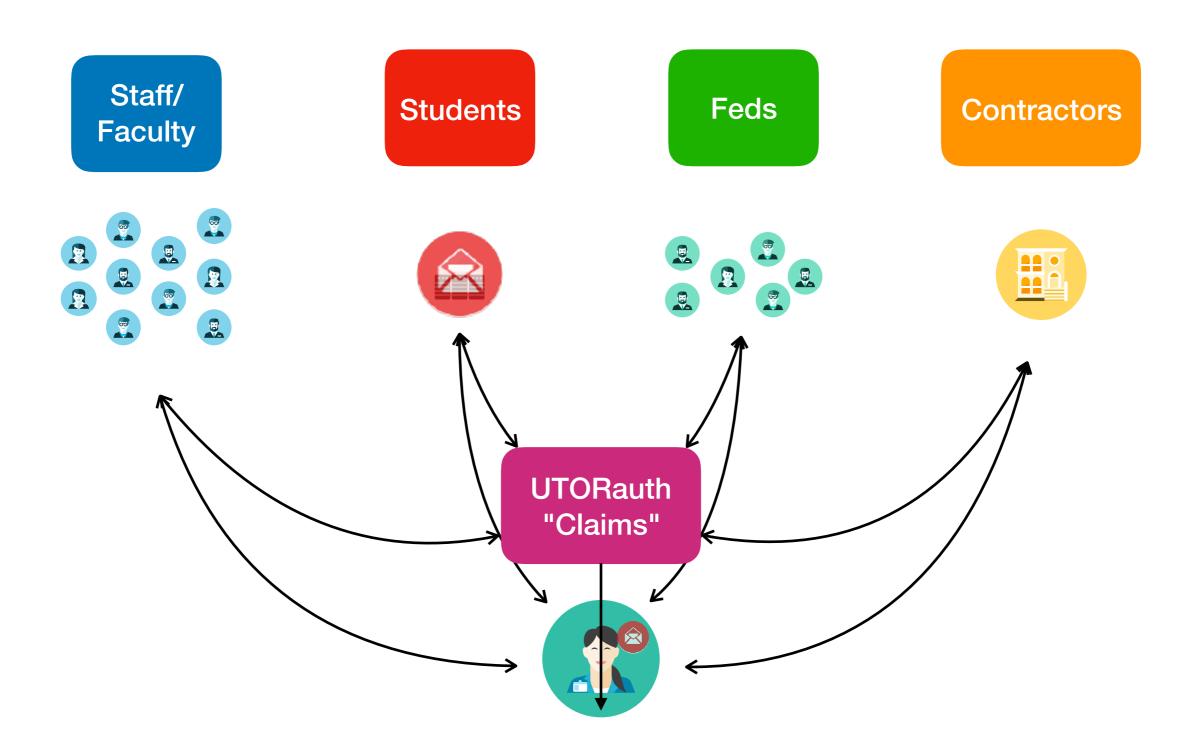
- System of Record submits a person to UTORauth.
- 2. UTORauth searches for that person, either matches them to an existing UTORid, or creates a new one.
- 3. UTORid/JOINid sent to submitting system (sometimes real-time, sometimes batch).
- 4. Business officer / divisional email system, etc. communicates UTORid/JOINid and SAK via letter, email or phone call to client.

"Claim" Model

- System of Record requests an account, providing UTORauth with the client's external email address.
- UTORauth emails the client a custom link to the "claim" website.
- 3. Website asks if client has an existing UTORid:
 - 1. If yes, client authenticates and proves they have one
 - 2. If no, a UTORid will be created.

Benefits

- Reduction of the number of duplicate records
- Consolidation of end-user experience



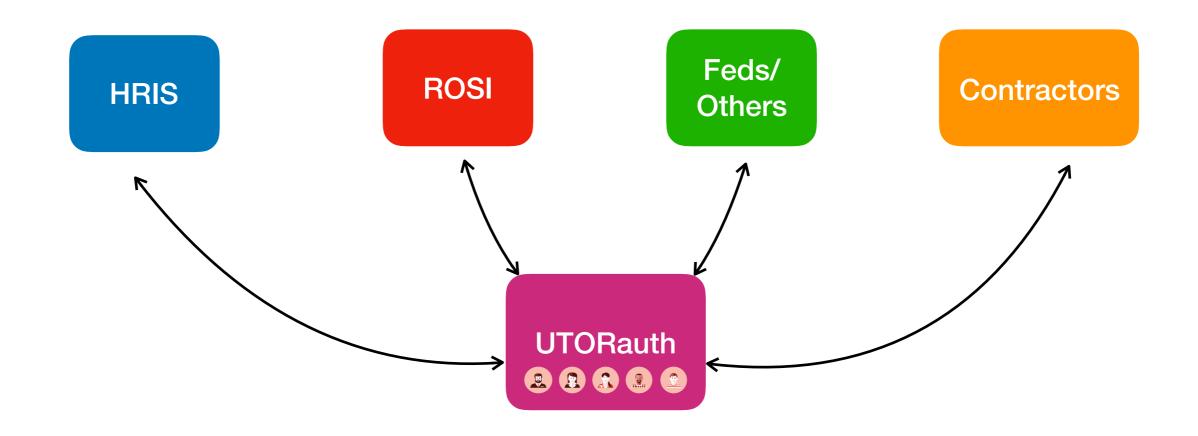
Benefits

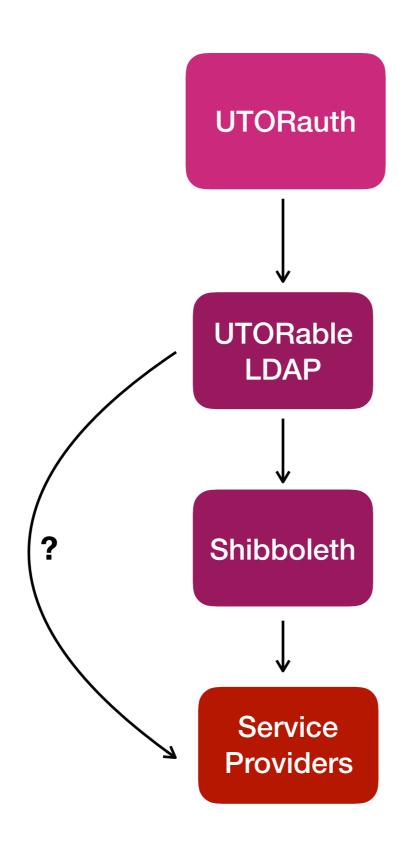
- Reduction of the number of duplicate records
- Consolidation of end-user experience
- Remote users
- Guest accounts (more on this later)

Group Management

Authorization

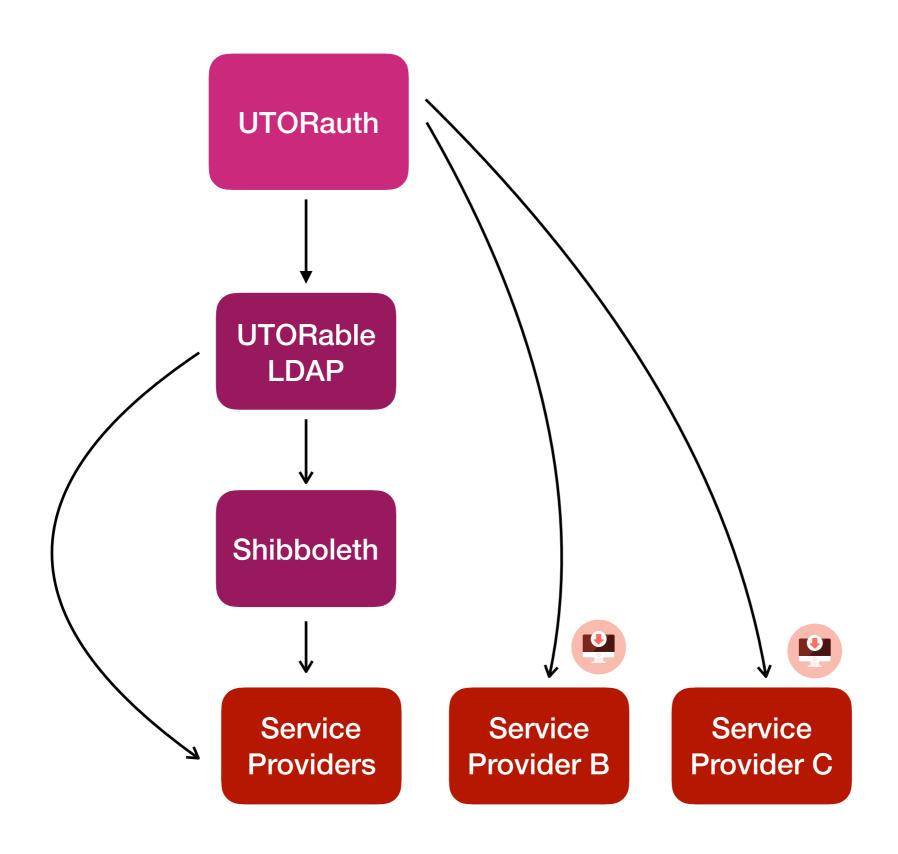
- UTORauth provides attributes, service providers make decisions
- UTORable LDAP contains coarsegrained information (isstaff, isfaculty, isstudent)





Challenges

- Service providers don't check
- Not enough information to make decisions -- batch feeds are created to fill the gap



UTORGrouper to the rescue...

- Basis Groups: data driven
- Reference Groups: institutional cohorts
- Access Policy Groups: service provider maintained

Basis Groups

- Driven by automated data
- Maintained and visible only to IAM staff
- Examples: Full-time staff, adjunct faculty, grad student, teaching hospital staff

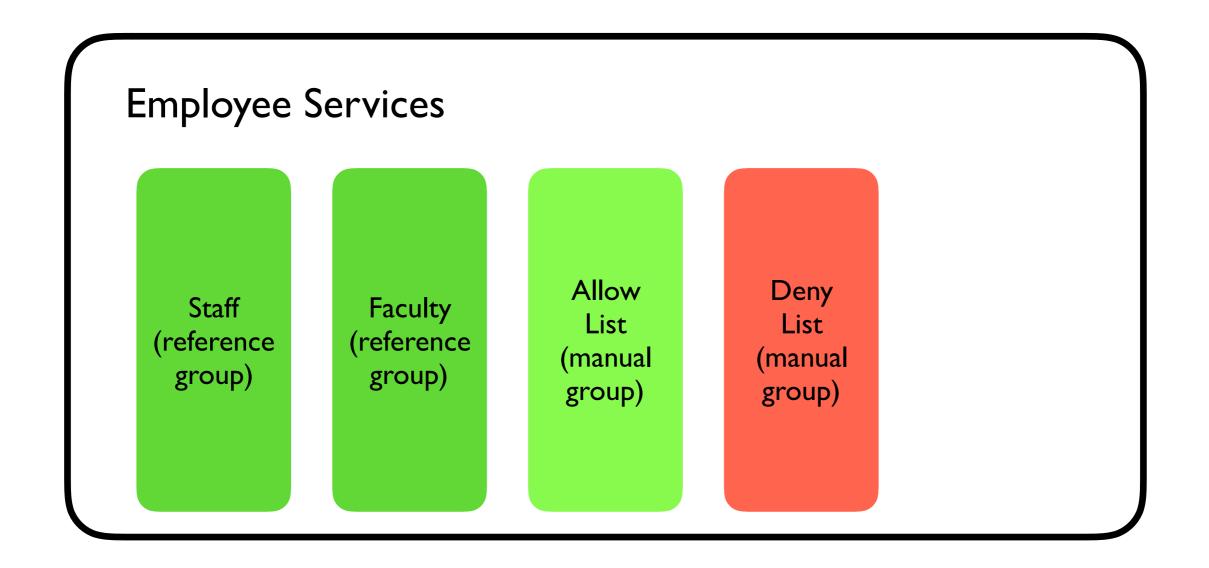
Reference Groups

- Constructed from basis groups
 - Staff Member = (full time staff + part time staff + federated college staff + ...)
 - Student = (grad student + undergrad student + continuing education student + ...)
- Maintained by IAM staff, but visible to service providers

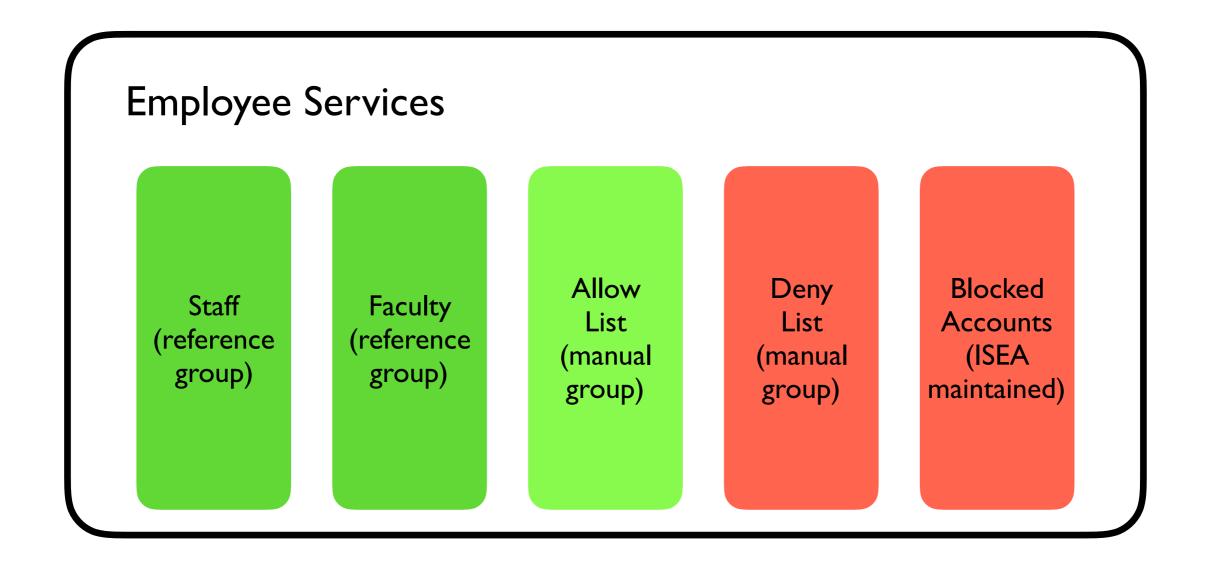
Access Policy Groups

- Constructed from reference groups and manually maintained allow/deny lists.
- Managed by the service provider
- An example...

Example Access Policy

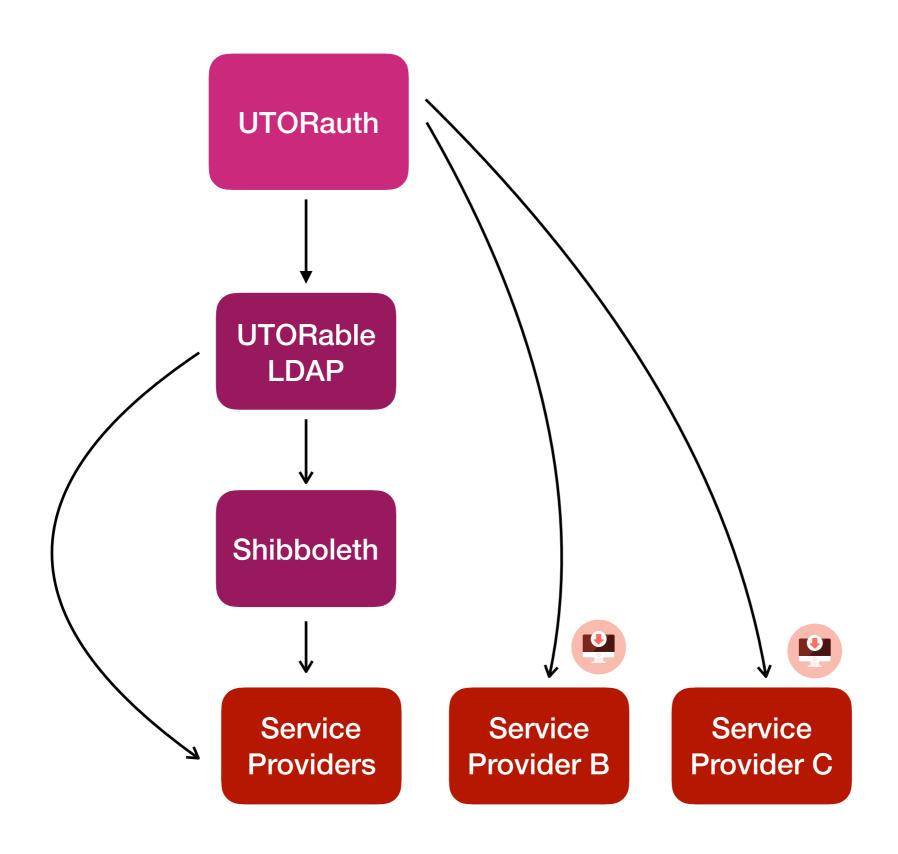


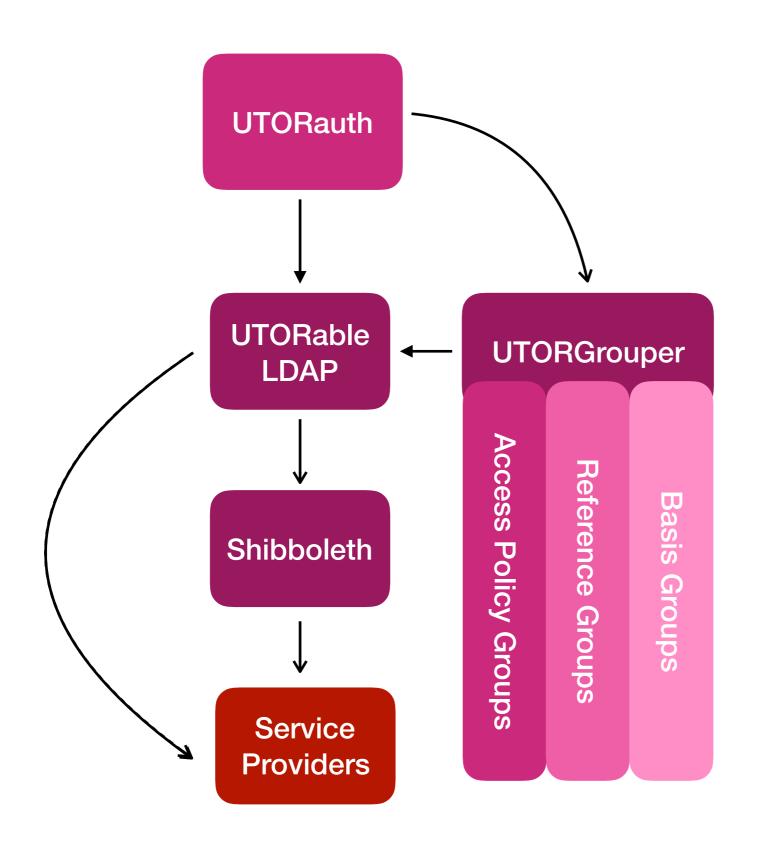
Example 2.0



Benefits

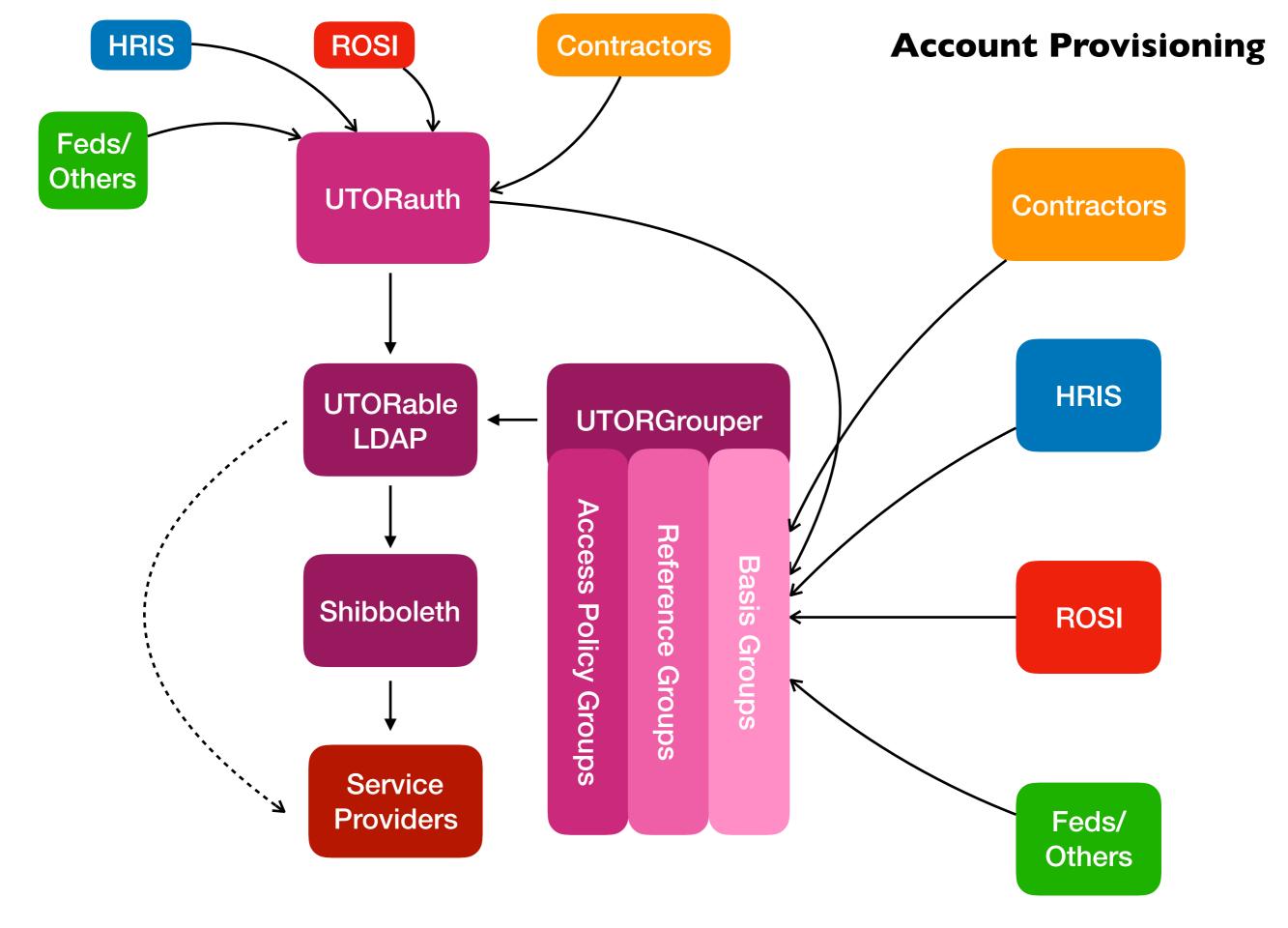
Better control over who accesses your service





Benefits

- Better control over who accesses your service
- Moving in the direction of near real-time updates to authorization



Benefits

- Better control over who accesses your service
- Moving in the direction of near real-time updates to authorization
- Visibility into what services an account has
- Guest accounts

Guest Accounts

Guest Accounts

Currently...

- Guest access is fractured:
 - Long-term guest (contractor)
 - Short-term WiFi (QQ type 1)
 - Longer term Blackboard (QQ type 2)
 - etc...
- Apart from first type, not re-usable

Claims + Groups = ...

- Proper guest account service
- Claims allows us to create named accounts for anyone (not QQ, not disposable)
- UTORGrouper allows us to provision temporary access to a service through allow/deny lists

Questions?

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