

How many are you?

Avoiding multiple identities in IAM

Wim Penninx, Laura Stappershoef, TU Delft

Johannes Vermeer: view on Delft, 1661 [Mauritshuis, The Hague]

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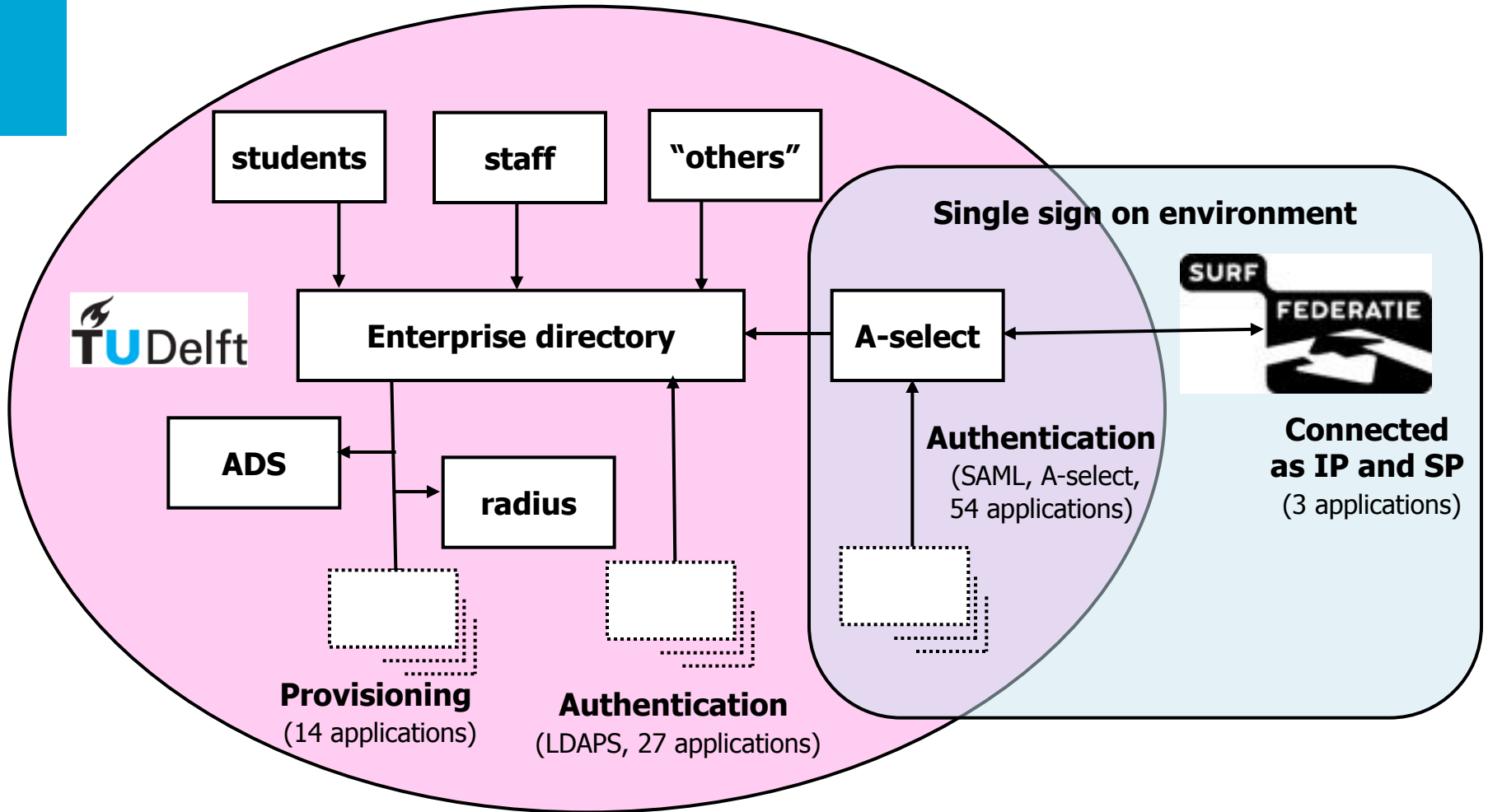
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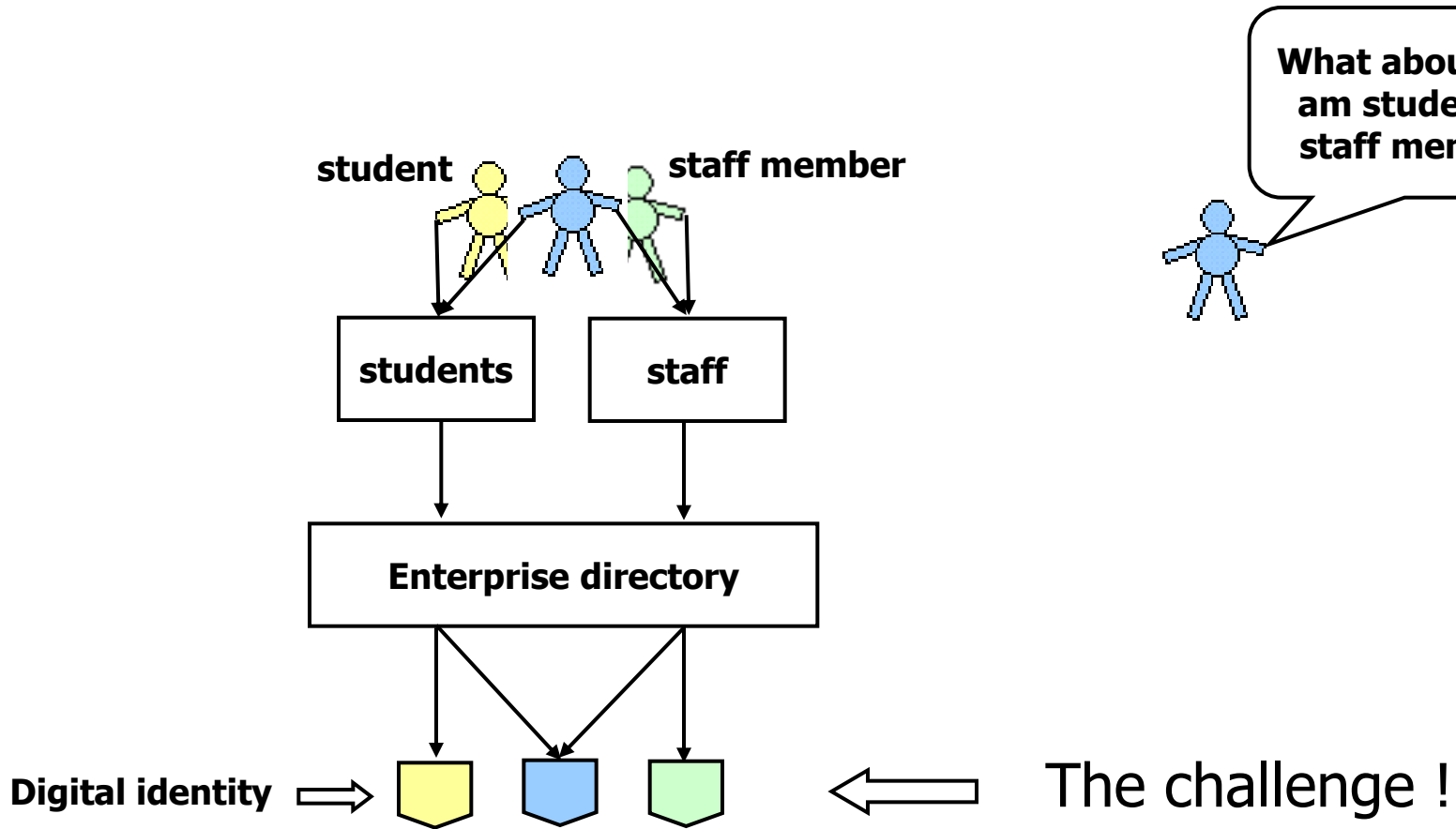
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Identity management at TU Delft



How many are you?



Obstacles to overcome

1. Identity matching

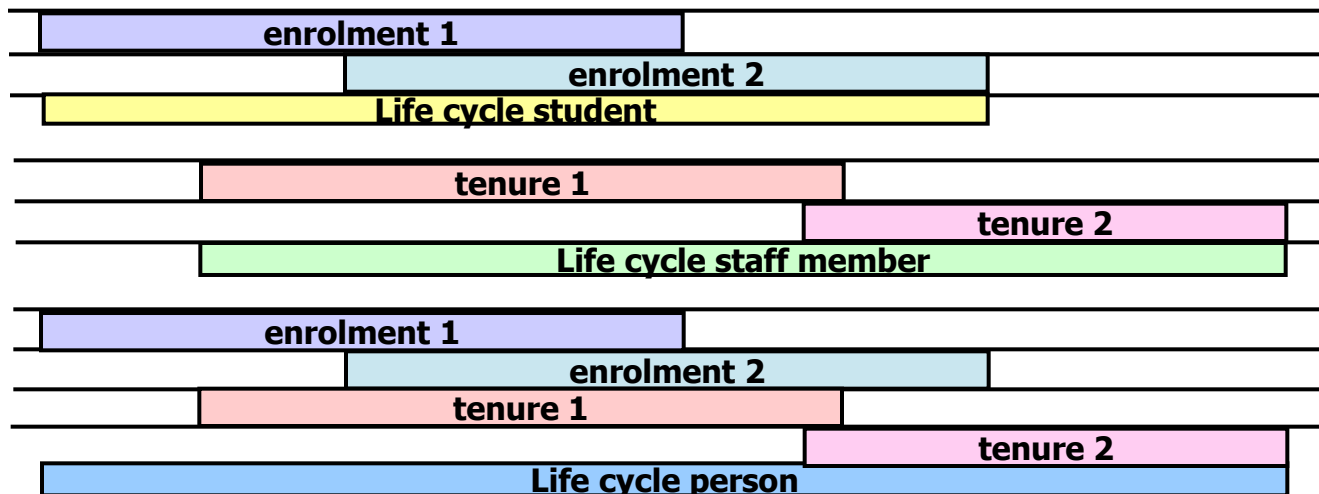
How do you know that student x = staff member y ?

- Surname?
- Date of birth?
- Firstnames?
- Unique identifier?
- History (was once a student at TU Delft)
- False negatives? Possible
- False positives? Not possible
- Manual matching will be restricted to the false negatives

Obstacles to overcome

2. Life Cycle

- Now: the life cycle of a student is the sum of the life cycle of the enrolments (relations).
- Now: the life cycle of a staff member is the sum of the life cycle of the tenures (relations).
- Then: the life cycle of a person is the sum of their relations



Obstacles to overcome

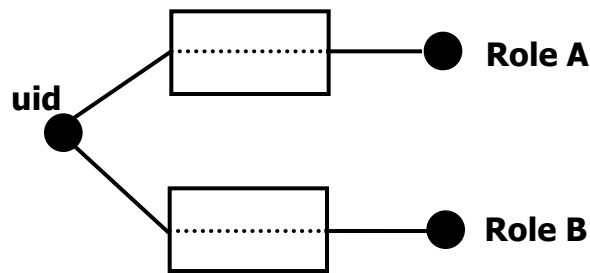
3. Source definition

- Source systems have (different) data for the same attributes.
Which data is preferable?
- Define authoritative source
- Define main role; main role implies authoritative source
- How? When switch the main role?
- Self service and authoritative source

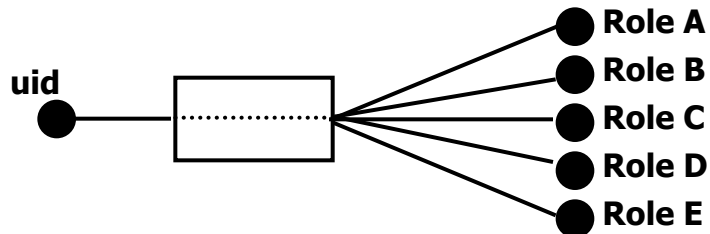
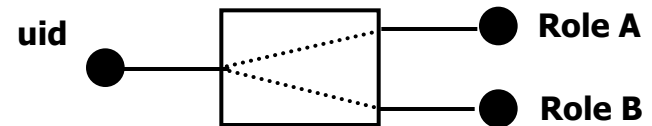
Obstacles to overcome

4. Applications and Roles

- There are different types of applications to handle users with different roles.



entry based



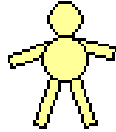
roll based

Conclusion

- It is possible to create on digital identity for a natural person; it is a task that demands
 - redefiniton of attributes that have different content depending on the source data
 - good algorithm for ID matching
 - definition of "main role"
 - autoritative source for attributes
 - new definition of life cycle of identities
 - careful analysis of the applications which use more than one role
- And then
- adjustment of the data directory
 - adjustment of the drivers
 - adjustment of provisioning

And then....

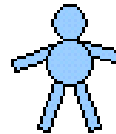
Me,
student



I , staff member



Myself



We like to thank Jordi Clement and Thomas van Vooren of Everett for facing the challenge and help to break down the obstacles

everett.



Epilogue

- Did we do it? One digital identity?
- No, not yet....
- Why?
- The decision to incorporate PhD students in the student system was delayed and the € stack was short...
- But we have a roadmap and every adjustment we make to the IDM infrastructure, we do it in such a way that we also set a step on the road to one digital identity.