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Federated Identity Management

Putting the building blocks together

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SANReN Engineer

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Topics to be covered

1. SAFIRE – The South African Implementation
2. The Policy
3. Technical Implementation
4. The Process
5. Proposed Core Attribute List
6. Governance
7. Conclusion

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Welcome to SAFIRE

- SAFIRE is the pilot implementation of the South African Federation
- It is the outcome of the effort of the Federation Project team
- The project official began in May 2013
- The focus of the pilot project was to:
  - Develop a draft Policy
  - Build a technical implementation
  - Detail the structure and governance of the Federation moving in production
- For more details visit - www.safire.ac.za
- The acronym SAFIRE stands for:
  - **South African Federated Identities for Research and Education**

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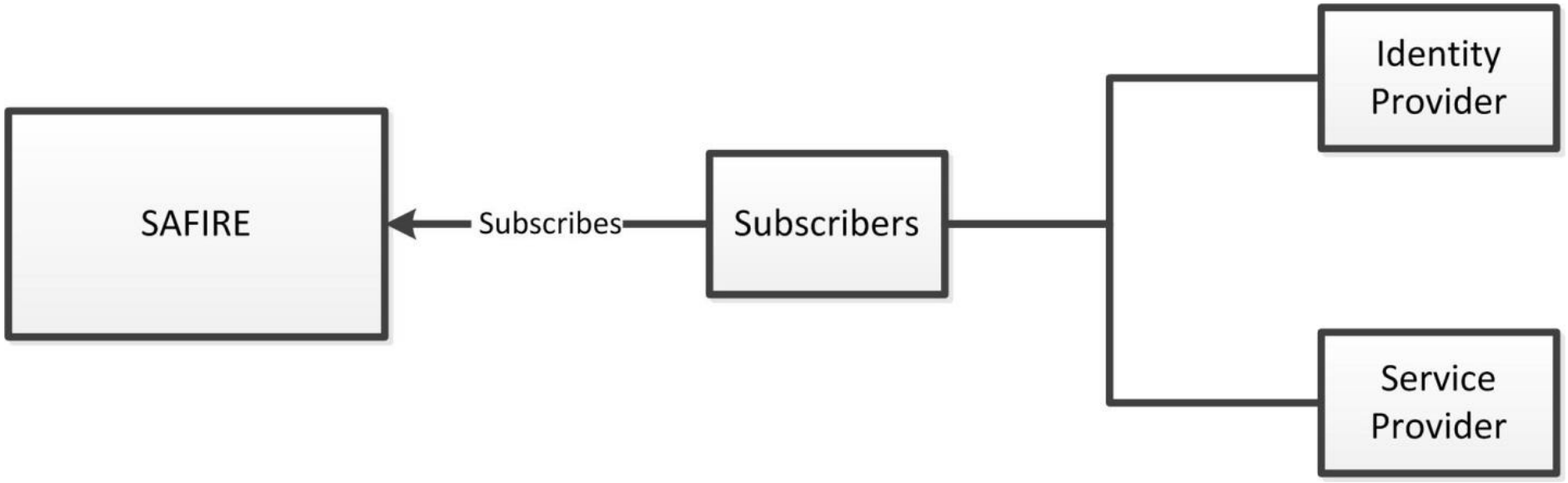
The Policy



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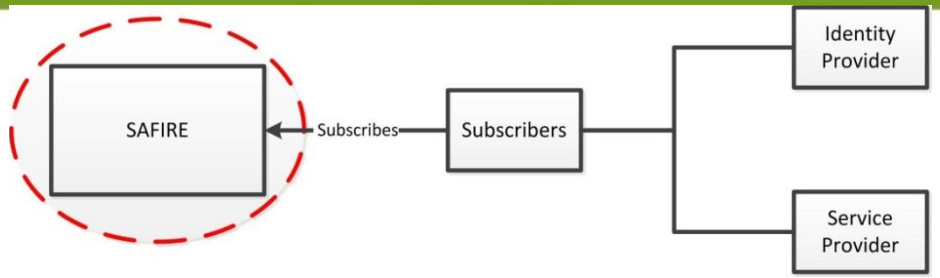
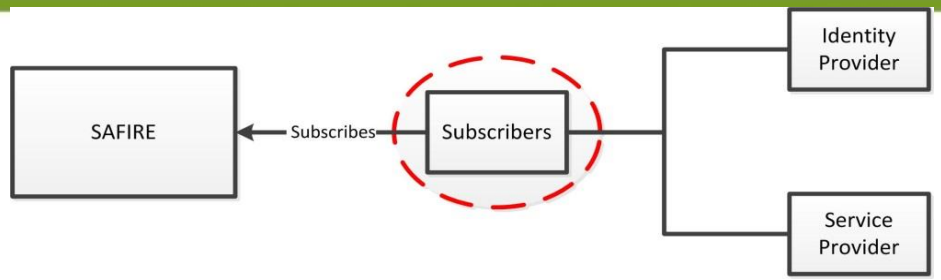


SAFIRE is required to:

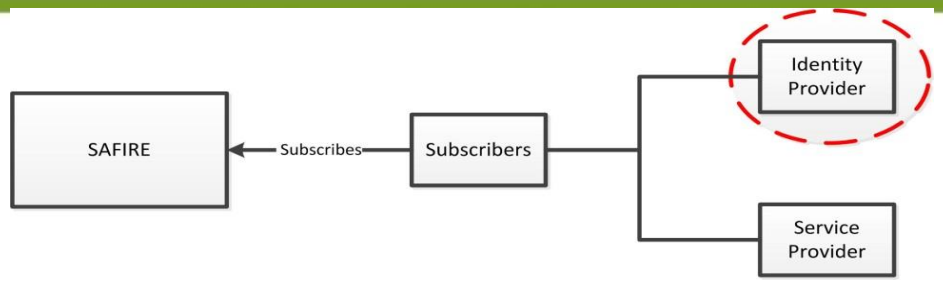
- Provide support services to Subscribers
- Centrally obtain informed consent from the End Users concerning the release and scope of Attributes and communicate this information to the Identity Provider



Subscription to the Federation is available to organisations and institutions which undertake or support education, research or research and development in SA.

The Subscriber must ensure that and acknowledge that:

- All data provided is accurate and changes to Metadata are provided promptly to the federation operator
- it will give reasonable assistance to any other Subscriber (including to the Subscriber's identity provider) investigating misuse by an End User
- Participation in the Federation does not by itself grant access to the services provided by Service Providers.



Identity Providers, in addition to the policy requirements of general subscribers must also comply with the following:

- Identity Providers must collect or generate the Core Attributes as defined by the Federation
- Identity Providers may only release Attributes to a Service Provider, or another Identity Provider once SAFIRE has obtained permission from the End User to do so
- Identity Providers must ensure that accurate information is provided about End Users

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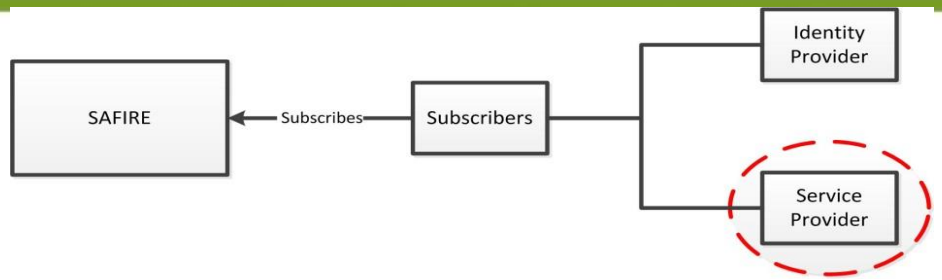

Service Providers, in addition to the policy requirements of general subscribers must also comply with the following:

- The Service Provider must not disclose to third parties any Attributes supplied by Identity Providers other than those where the relevant End User has given prior informed consent to such disclosure.
- The Service Provider may only use user attributes for specific purposes such authorising access to the service or personalising a user interface
- Service Providers must request only the minimum set of Attributes. If more than the minimum set is requested then the Service Provider must justify the request to the Federation who evaluates the request and makes a decision.

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SAFIRE's Technical Implementation

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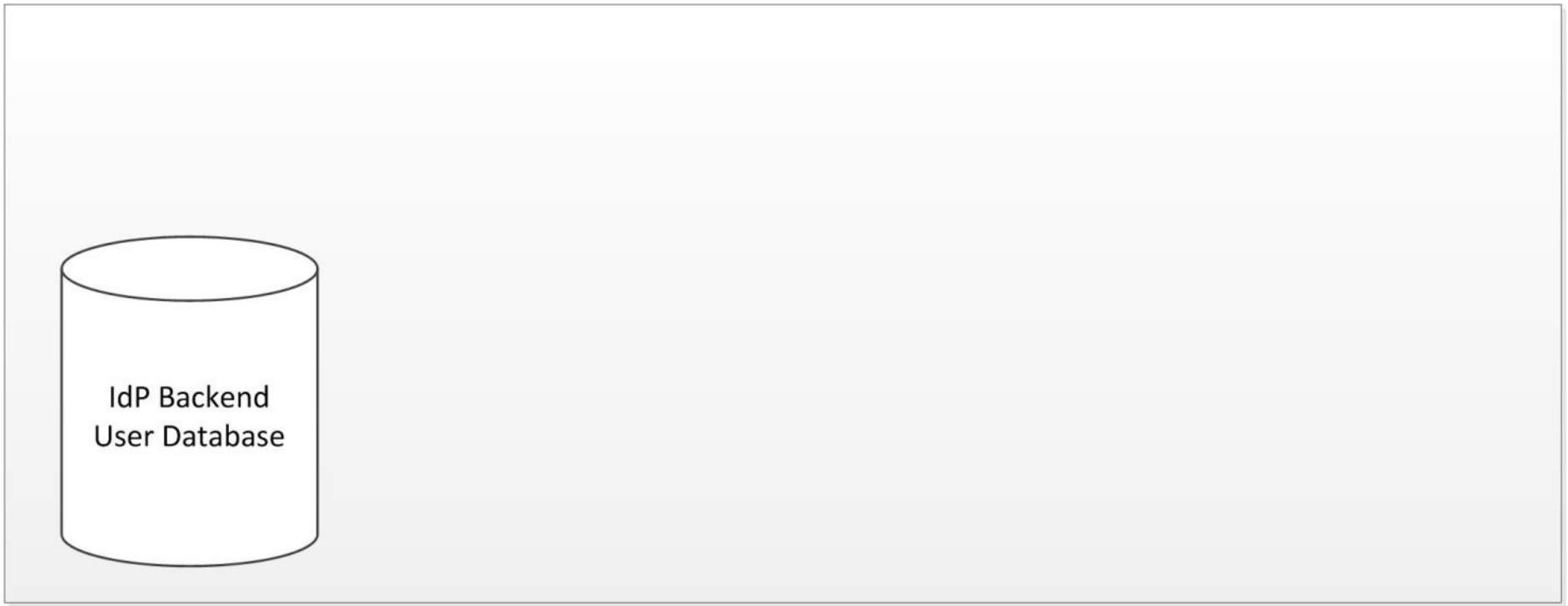

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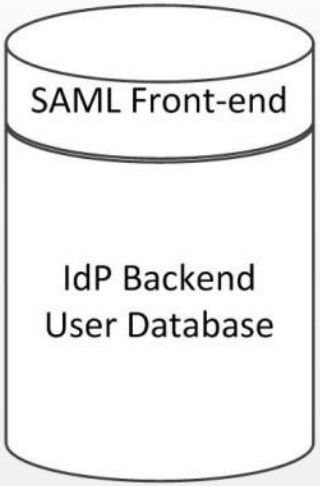

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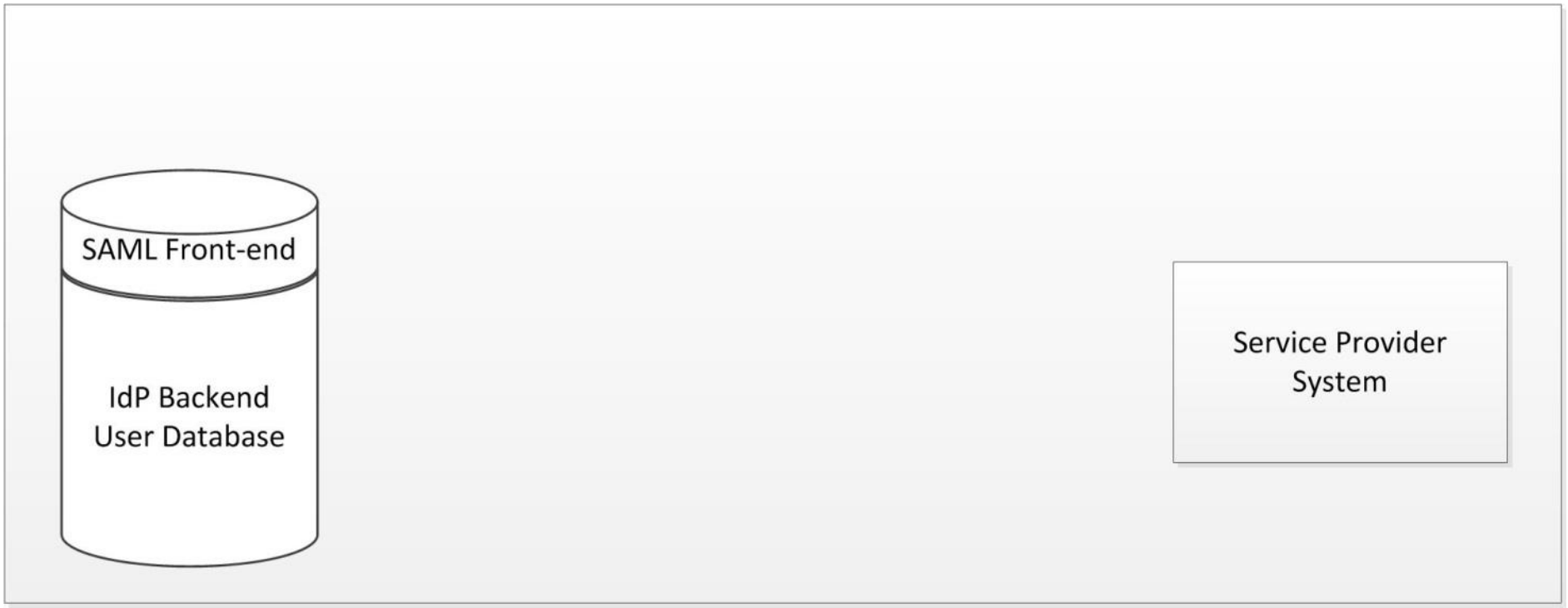

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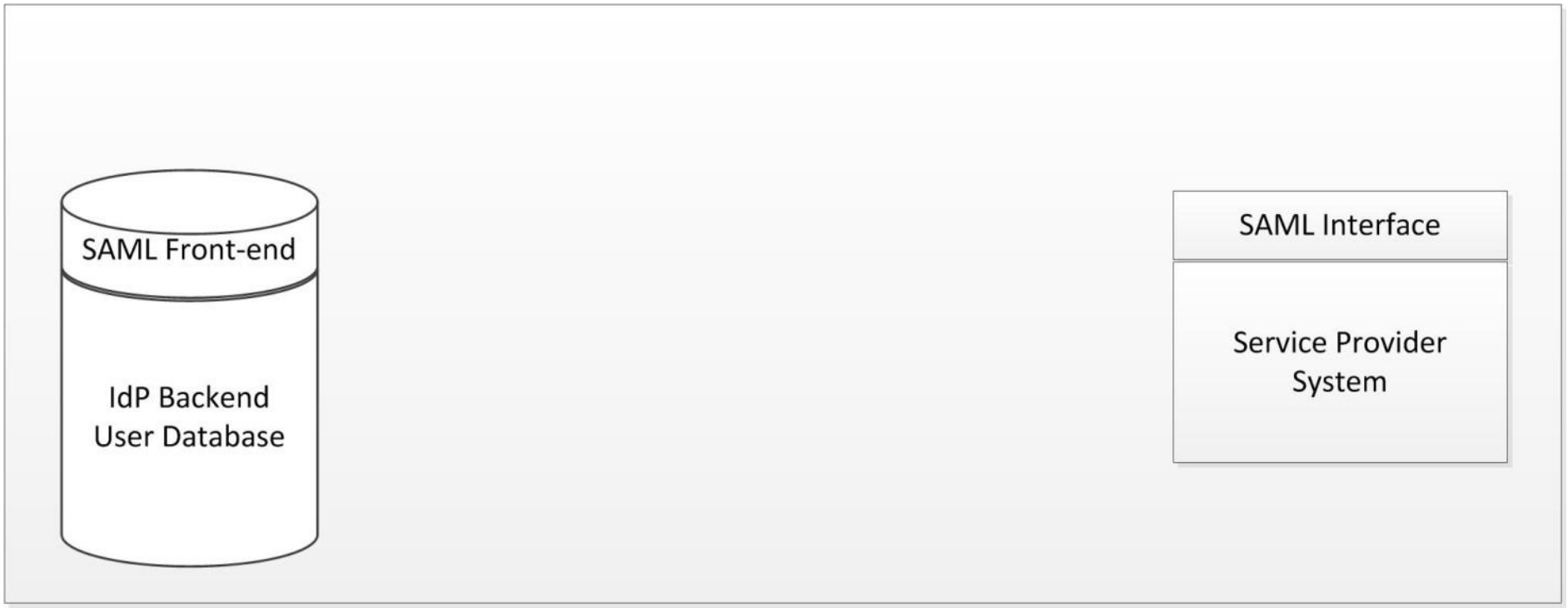

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SAFIRE's Technical Implementation

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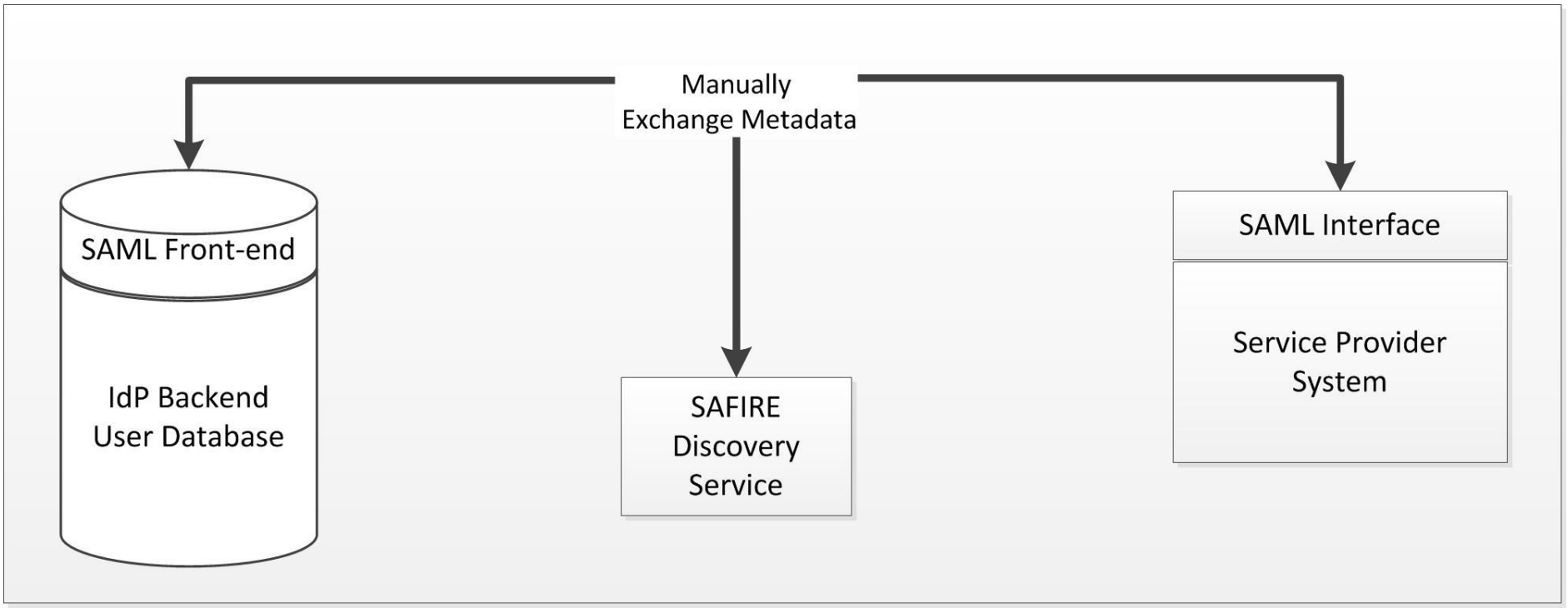

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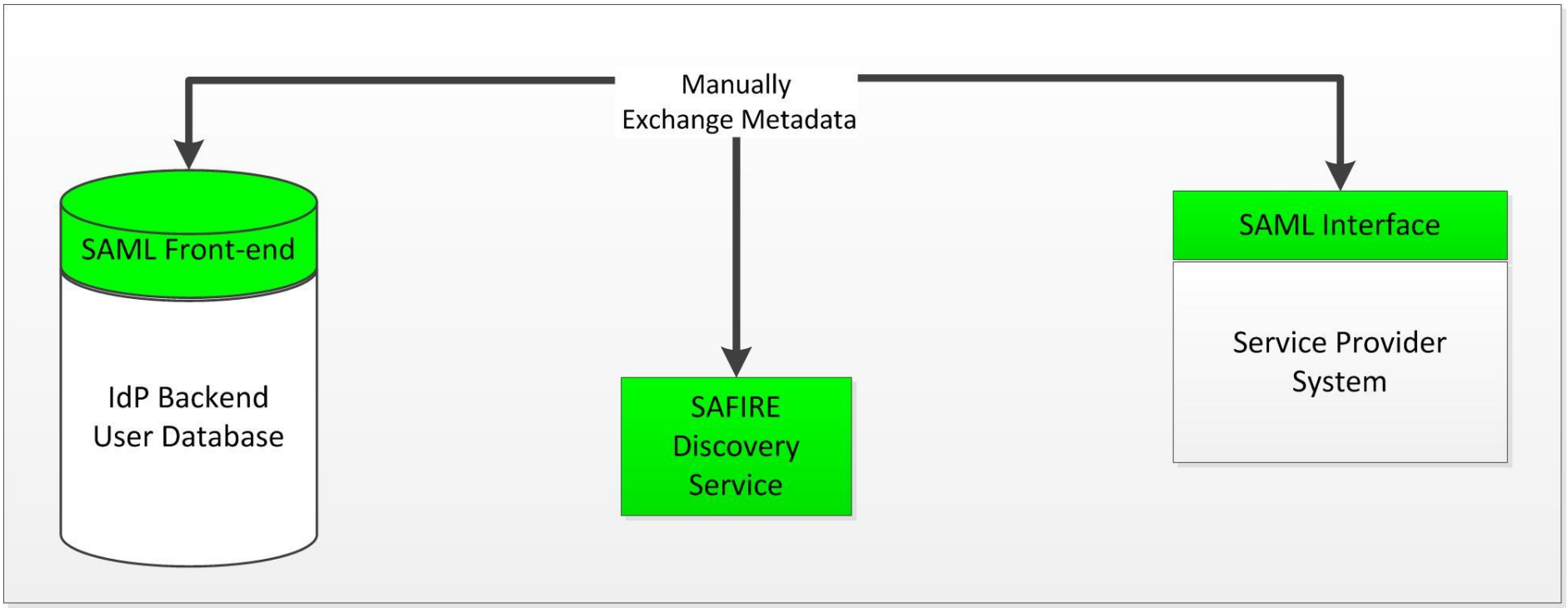

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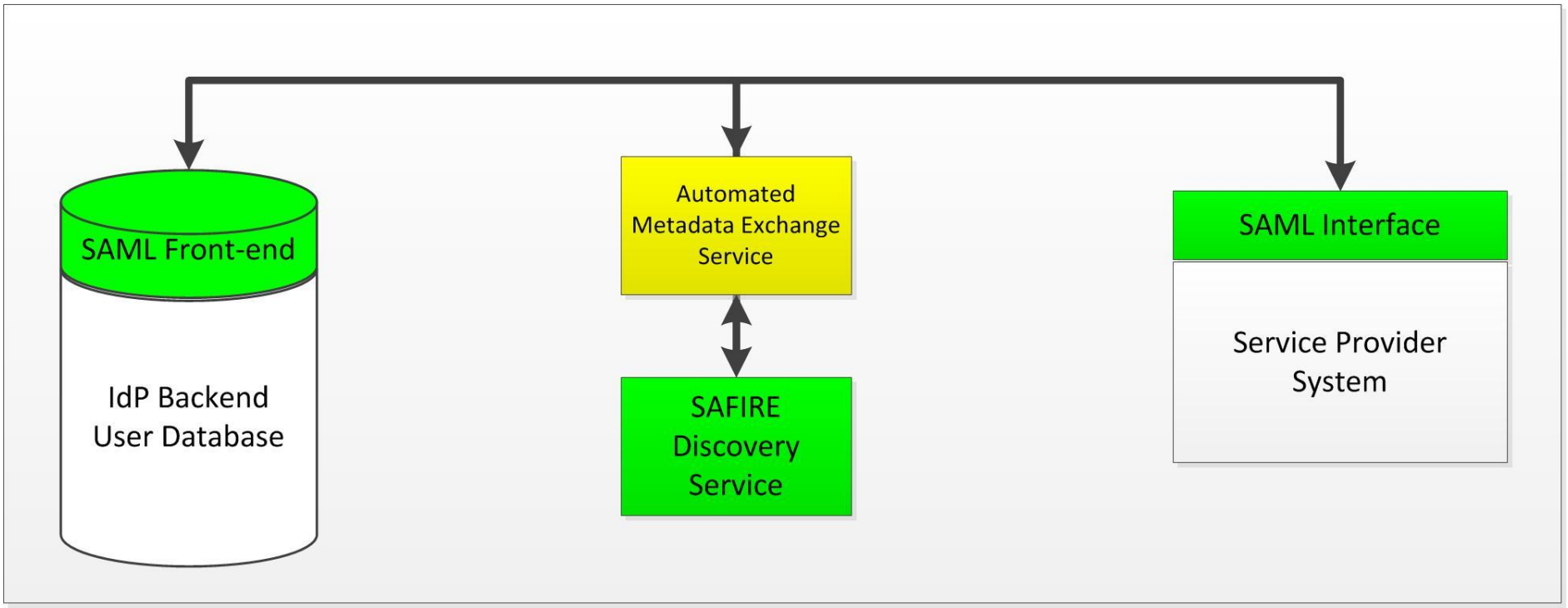

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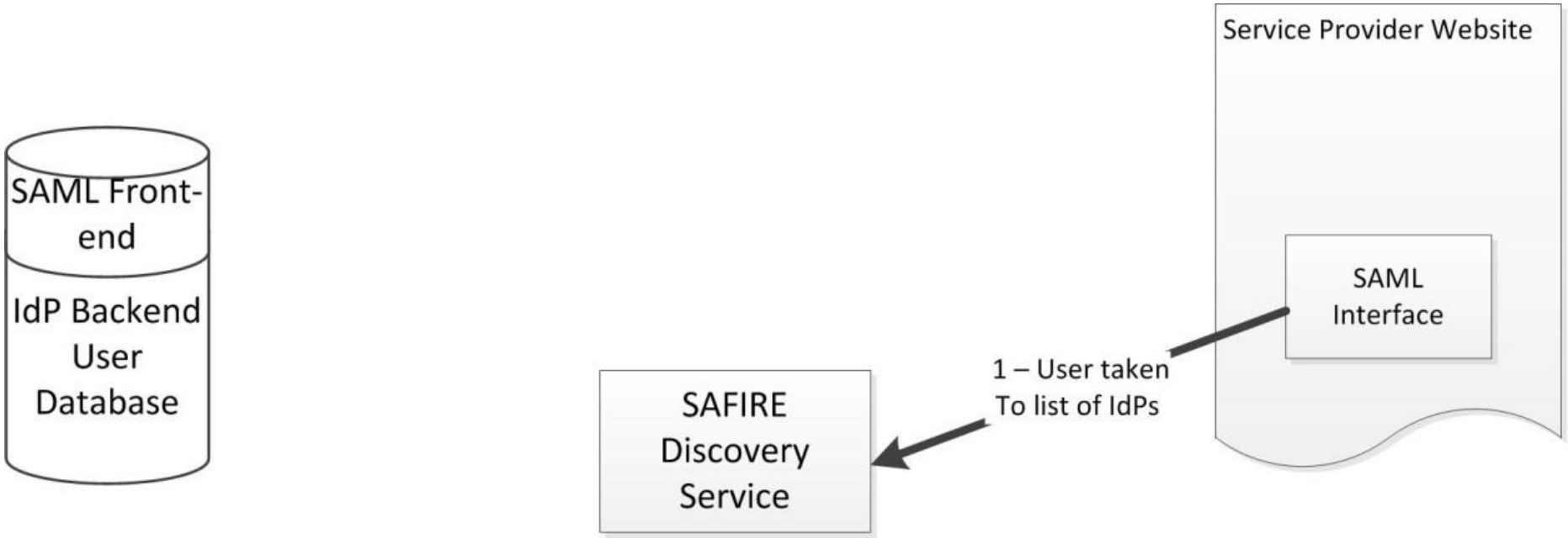
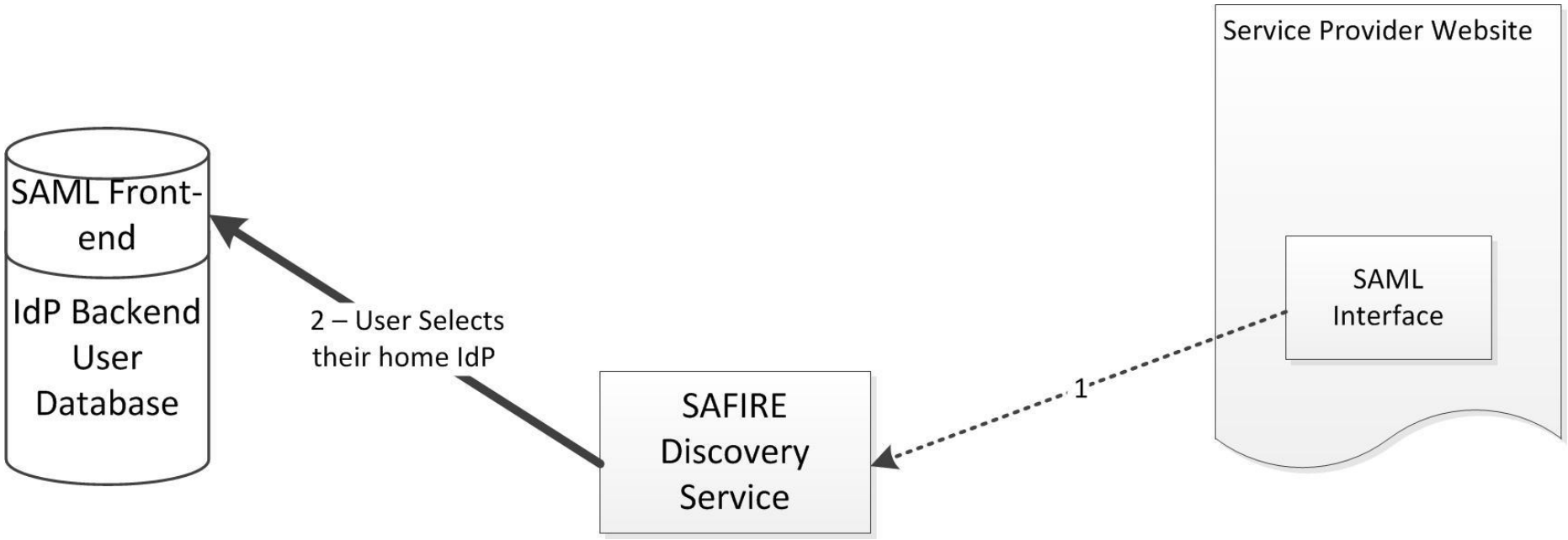
The Process of accessing a Service



The Process of accessing a Service



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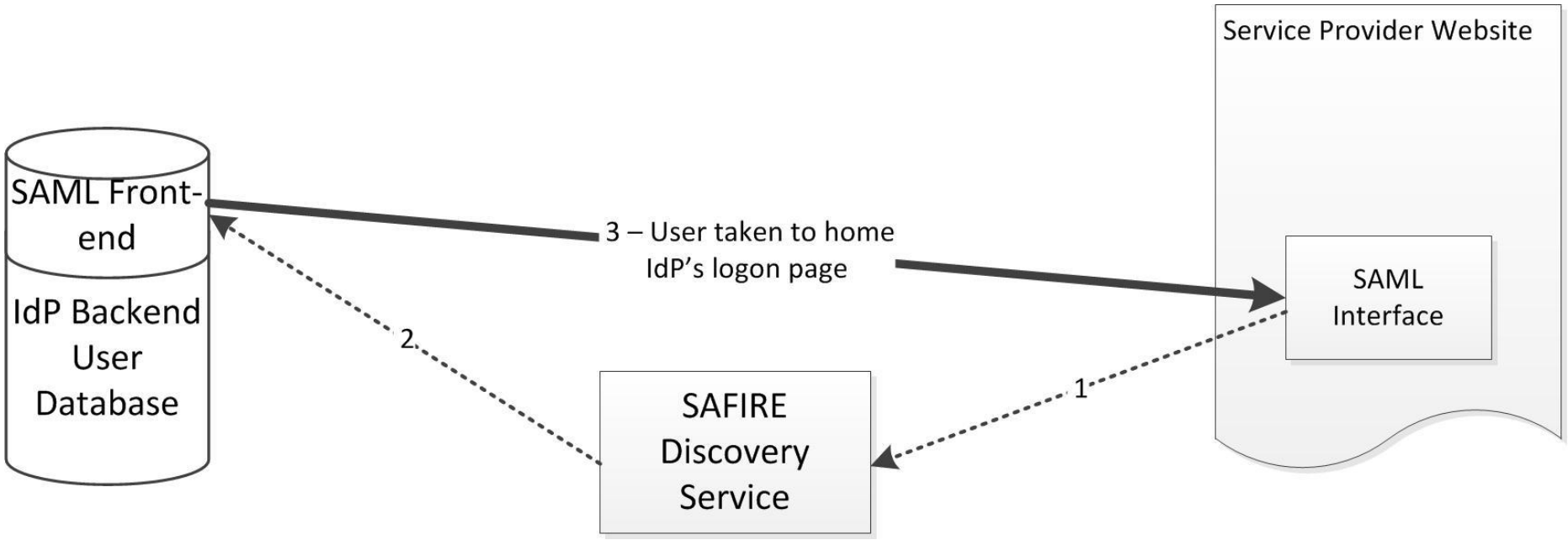

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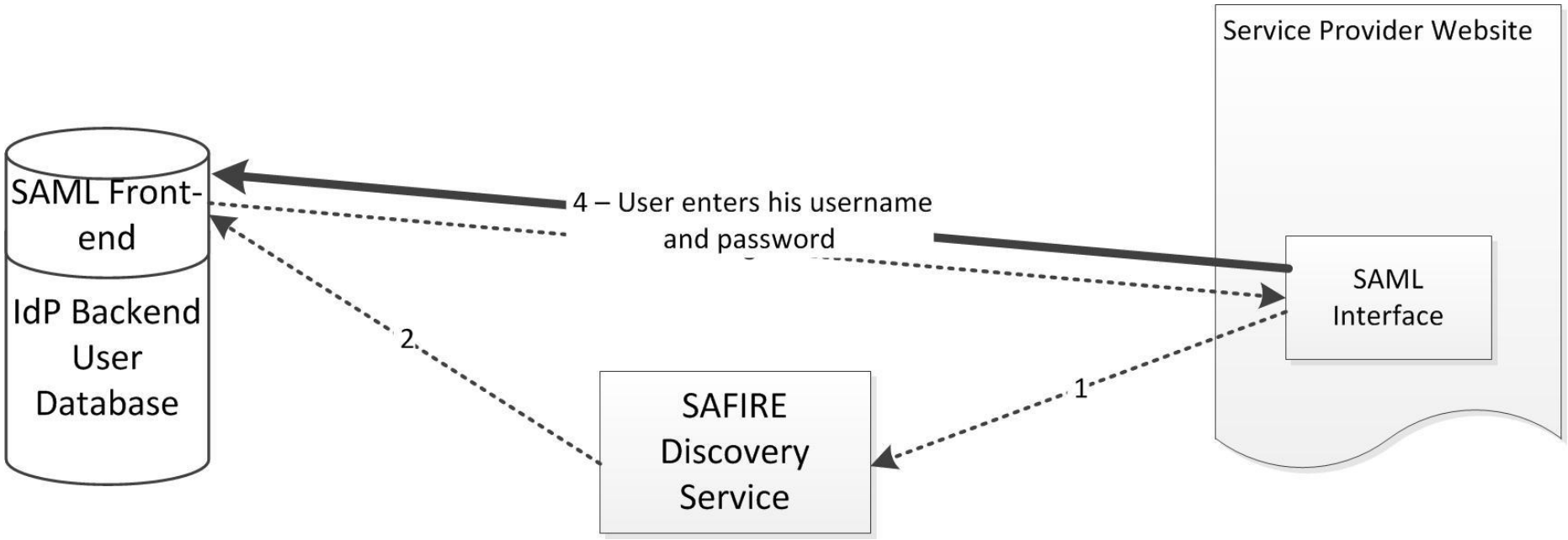

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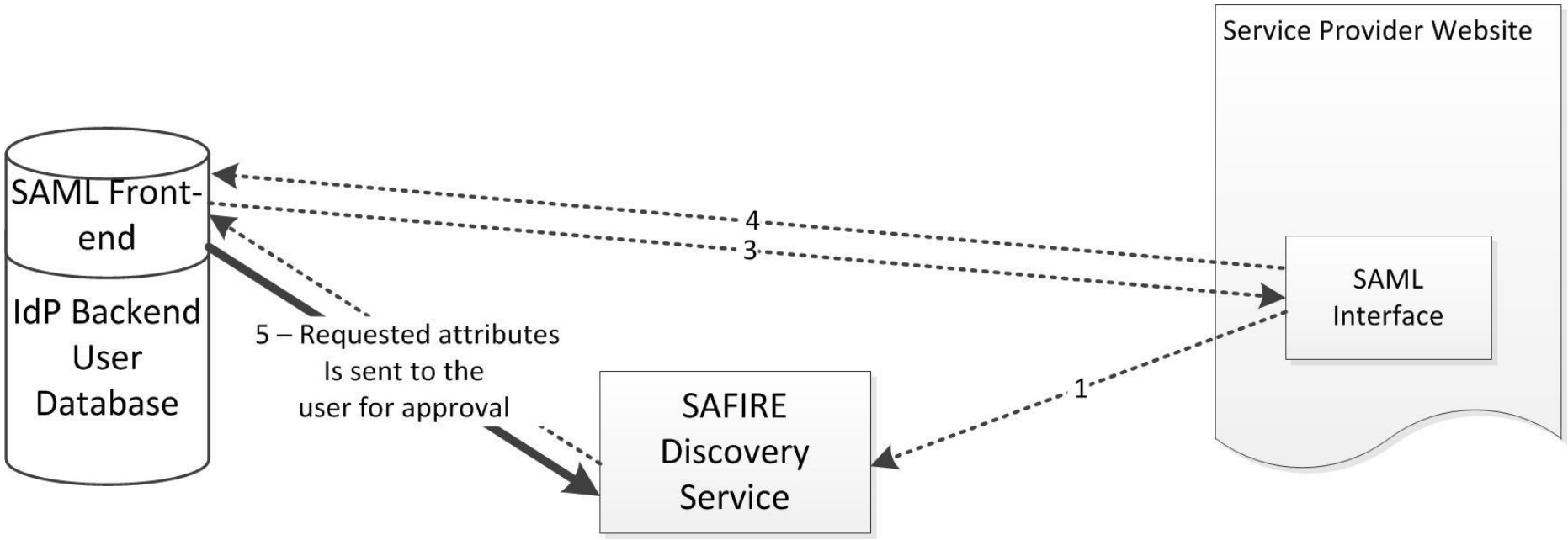

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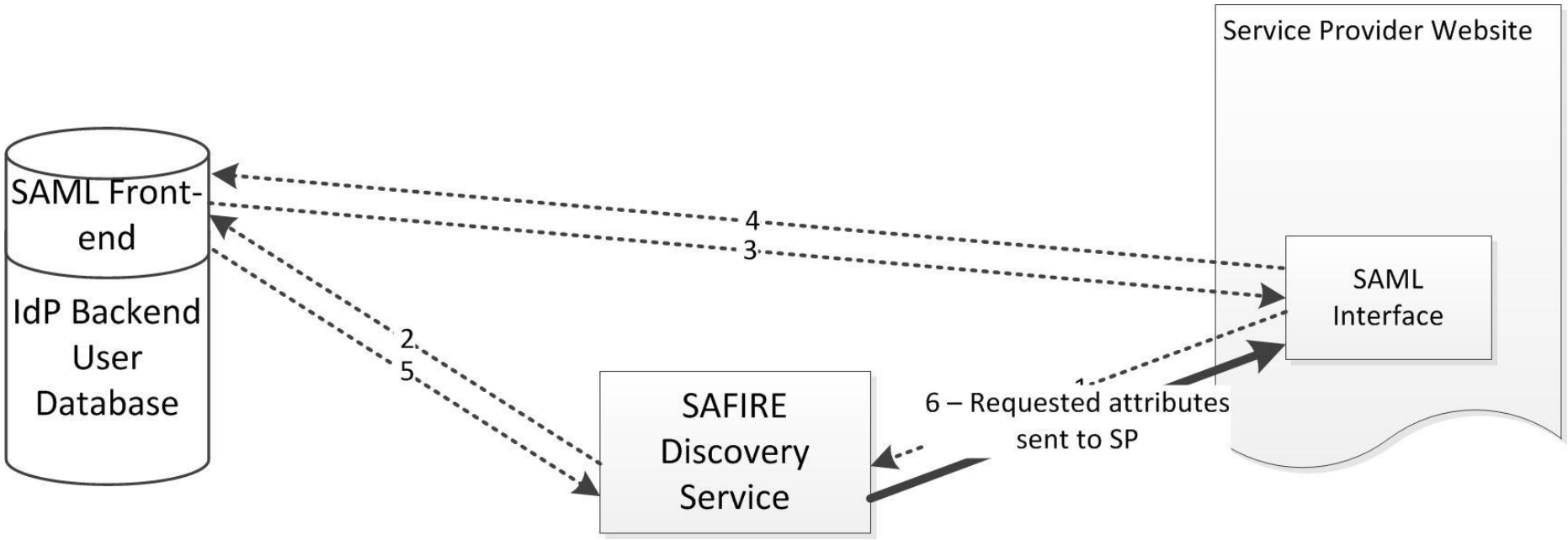

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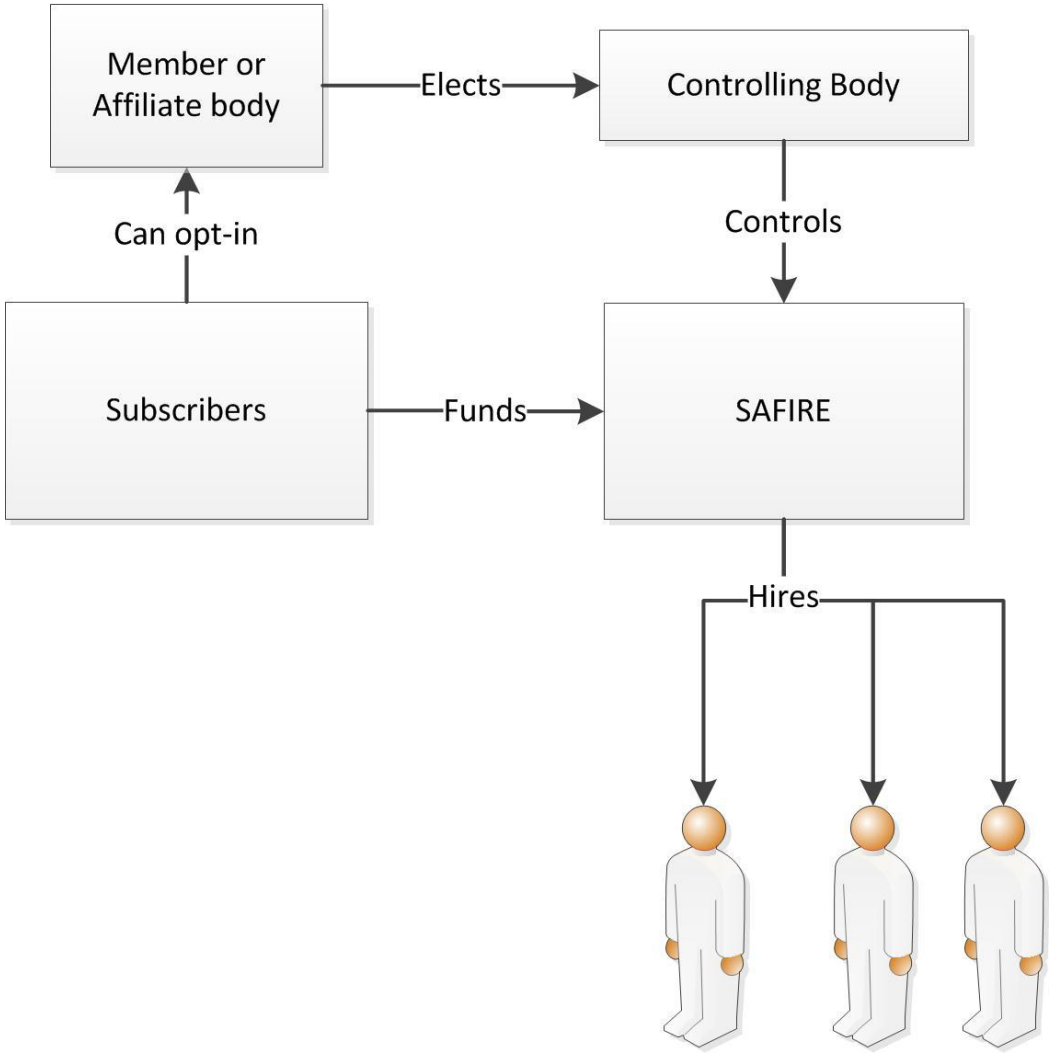
Core Attribute List

Attribute	Example Values
auEduPersonSharedToken	ZsiAvfxa0BXULgcz7QXknbGtfxk
displayName	Jack Dougherty
eduPersonAffiliation	faculty
eduPersonEntitlement	urn:mace:washington.edu:confocalMicroscope http://www.sirca.org.au/contract/GL123
eduPersonScopedAffiliation	faculty@uct.ac.za faculty@imb.uct.ac.za student@law.uct.ac.za
eduPersonTargetedID	7eak0QQIEhygtPXtpgmu5l5hRnY
AuthenticationMethod	urn:mace:saif.ac.za:iap:authN:level1
eduPersonAssurance	urn:mace:saif.ac.za:iap:ID:level2
cn	Jack Liam Dougherty
o	The University of Cape Town
mail	j.dougherty@uct.ac.za

The Governance



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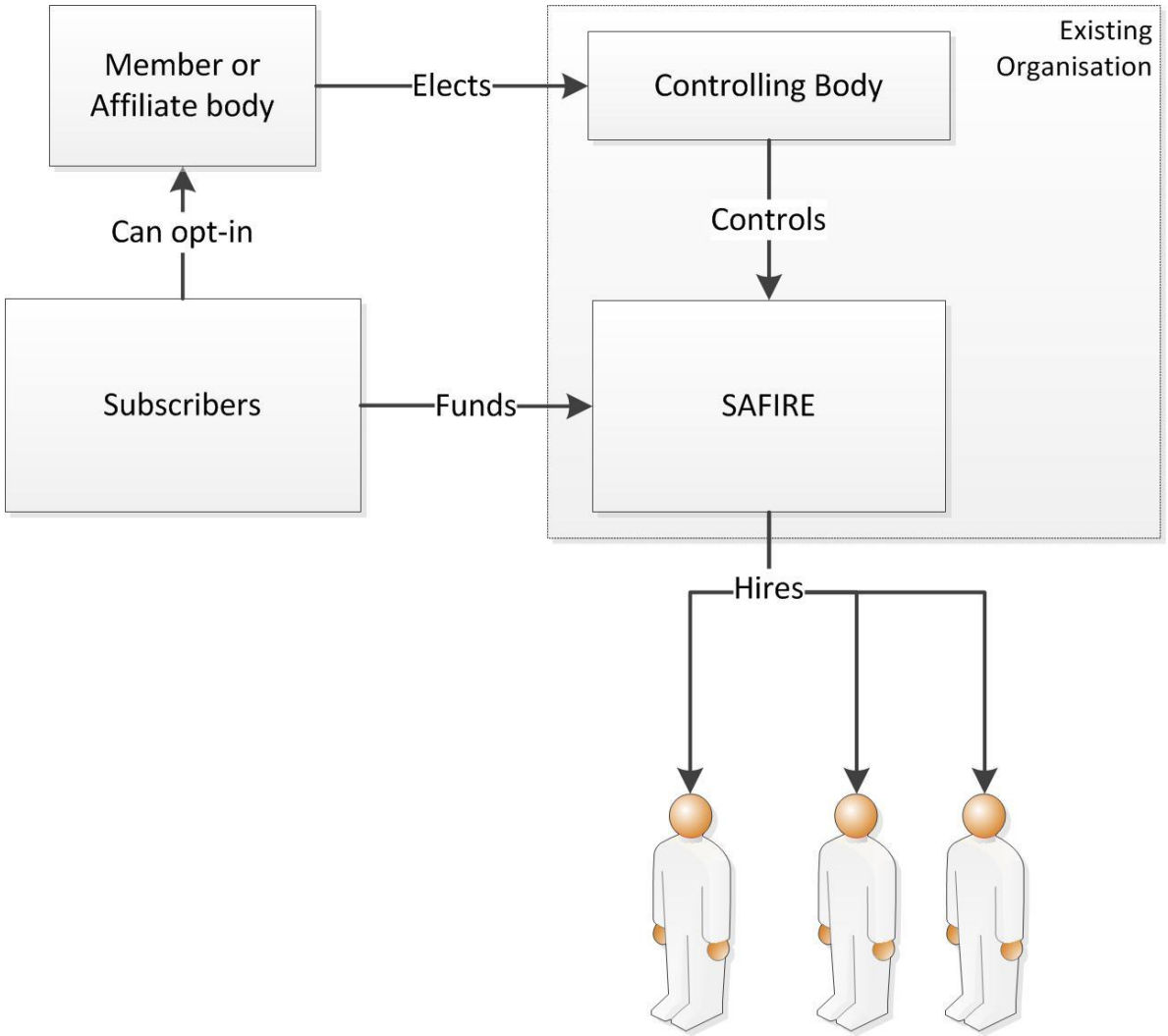
The Governance



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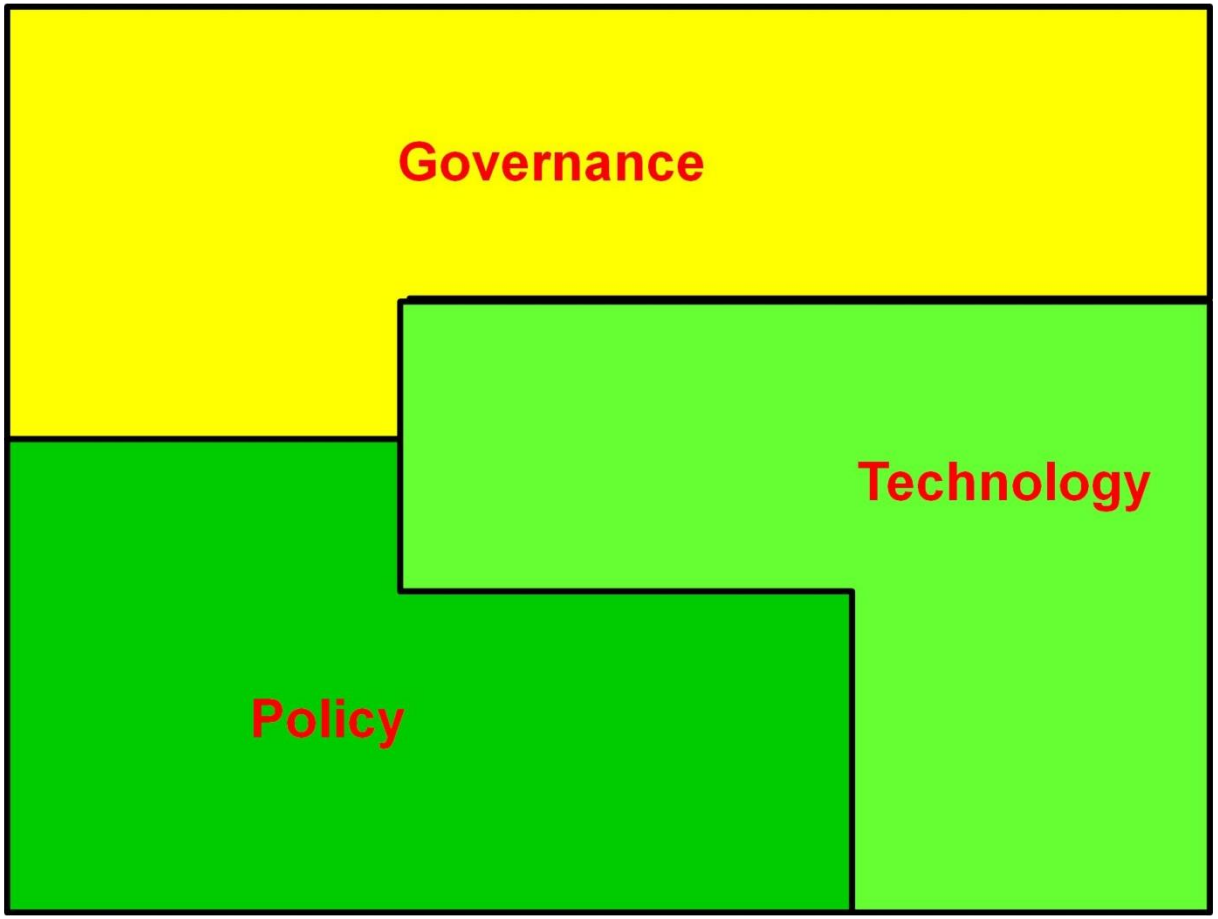
Putting it all together



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Conclusion

Four core points to take away from this talk

- End-user information is important and SAFIRE, through its policies and technologies, tries to enforce strict rules for the distribution of information
- The Federation will by funded by its subscribers
- Operationalising SAFIRE requires dedicated personnel
- To move SAFIRE into operational phase, the governance structure needs to be completed.