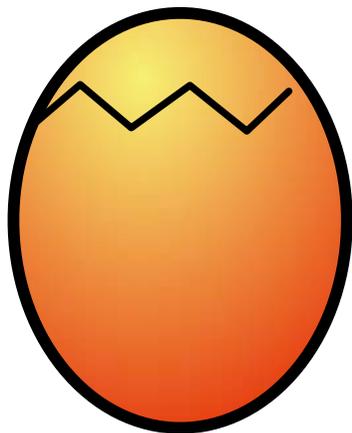


Evolution instead of revolution

Summary of new features of the Shibboleth SP versions newer than 2.2



SWITCH

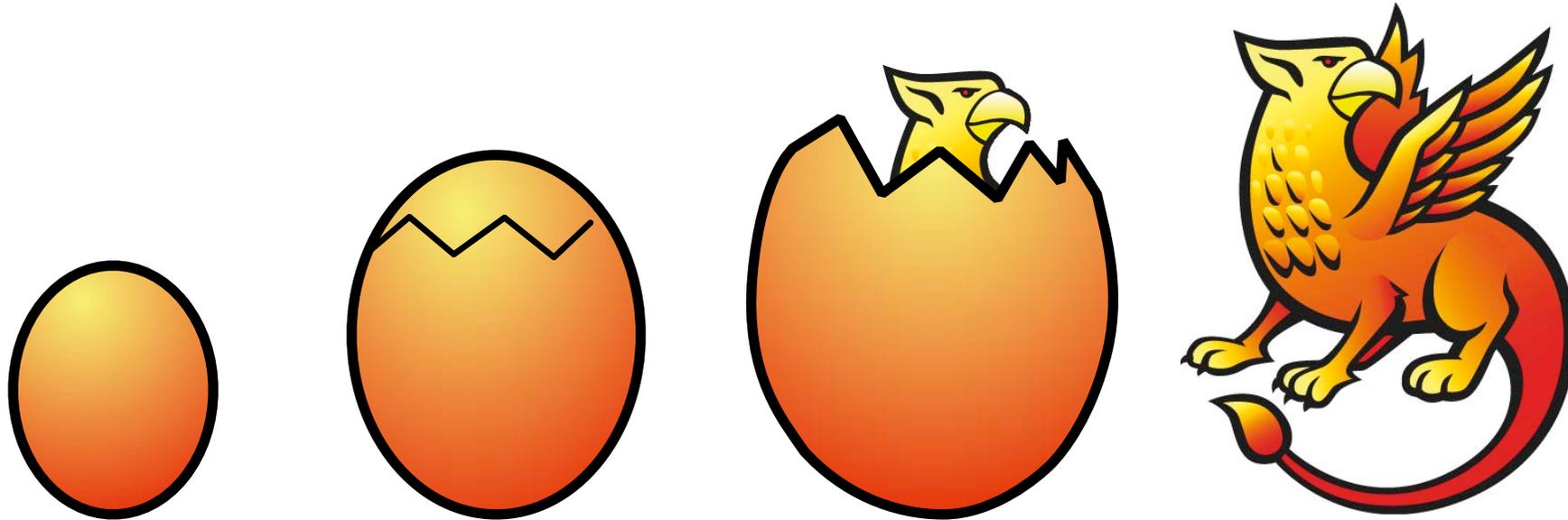
Serving Swiss Universities

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Service Provider is Maturing



- Shibboleth SP 1.0 was released on July 1, 2003
- Shibboleth SP 1.3 was released on August 26, 2005
- Shibboleth SP 2.0 was released on March 19, 2008

Shibboleth SP Versioning

- Version number: <MAJOR>.<MINOR>.<PATCH>
- **Patch Release**
 - Binary, source, configuration, and protocol compatibility.
 - Forwards and backwards compatible. Pure bug fix releases.
- **Minor Release**
 - May introduce new features and APIs but does **not** remove old APIs.
 - Backwards and forward compatible with respect to protocol behavior.
 - Backward but not necessarily forward compatible source and config
- **Major Release**
 - May make any type of change to protocols, APIs, and configuration.
 - As such, neither backwards nor forwards compatibility is guaranteed.
 - May be treated as if they were a new piece of software.

New Features in 2.2

Most helpful:

- shibd options:
 - -w <int>: Seconds to wait for the background process to fully initialize before returning success or failure to the shell.
 - -f : Keep the process in the foreground (good for debugging)
- Certificates and Keys can now also be loaded from URL
 - Can be downloaded periodically
 - Changes on file system can be reloaded dynamically
- Attributes as raw XML in (webserver) header variable
 - Including friendly name, name format, oid etc
 - Might be useful for multi-valued attributes

New Features in 2.2

- For files loaded from URLs, the <TransportOption> can be used, for example to bypass proxies
- Multiple <AccessControl> can be chained for a path
- Metadata filter can filter out roles (e.g. all SPs)
 - Saves some memory if metadata file is huge
- SimpleAggregation AttributeResolver
 - Aggregates attributes from multiple Attribute Authorities
 - Used for VO Platform
- Preserve POST data with postData option
 - Saves POST data across SSO on supported platforms
 - No lost POST messages anymore when session expires

New Features in 2.3

- Mostly a bug fix and patch release
- SPNameQualifier can be set in a request
 - Will be used for Virtual Organization
- defaultACSIndex was renamed to acsIndex
 - Visible as warnings in the shibd.log. Should be fixed in config file.
- SP can request a specific NameIDFormat
 - Available formats: transient (default) or persistent
 - Transient: Random string that expires after a few minutes
 - Persistent: Same value as eduPersonTargetedID attribute. Only rarely needed as NameID. Allows account checking/updating.

New Features in 2.4

- Introduced a simplified configuration file format
 - Only most relevant things have to be configured explicitly
 - But old format still is supported and also required for some options
- Attribute encoding for headers can be set
 - Default still is UTF-8
- CRL can be checked for PKIX metadata validation
 - Revoked metadata signing certificates can be detected
 - Increases metadata security
- Various options to be included in self-generated metadata
 - <ContactPerson>, <RequestedAttribute>, <Organization>, ...

New Features in 2.4

- Discovery Feed Handler

- Used for Embedded Discovery Service
- Generates simplified JSON metadata

```
[{ "entityID": "https://aai-logon.switch.ch/idp/shibboleth",  
  "DisplayNames": [ { "value": "SWITCH", "lang": "en" } ],  
  "Descriptions": [ { "value": "The SWITCH Identity Provider", "lang": "en" },  
                   { "value": "Der SWITCH Identity Provider", "lang": "de" }  
                ]  
  }  
, ... ]
```

- XML Access Control rules can be referenced from .htaccess

- Non-root users can dynamically create complex access control rules

```
AuthType shibboleth  
ShibRequireSession On  
ShibRequireAll On  
require shibboleth  
ShibAccessControl /home/lukas/phpmyadmin-shibacl.xml
```

Likely new Features in (unreleased) 2.5

Currently listed in the roadmap

- Parseable audit.logs
 - Time, IP, user, protocol, binding, authentication context, etc...
- Attribute Requirements
 - SP shows message (using a template) if some attributes are missing