SAML f-ticks for Shibboleth

Log format

The F-TICKS format implemented by this log appender is a generalization of the eduroam F-TICKS format:

```
'F-TICKS/' federationIdentifier '/' version *('#' attribute '=' value ) '#'
```

In SWAMID `federationIdentifier` is 'SWAMID' and `version` is '1.0'.

The attributes exposed are:

Name	Description
TS	the login time stamp
RP	the relying party entityID
AP	the asserting party entityID (typcially the IdP)
PN	a sha256-hash of the local principal name and a unique key
AM	the authentication method URN

The instruction is know to work for Shibboleth Identity Provider version 3.1 or later.

Configuration

Configuration is done in idp.properties:

Salt

Use the following command to generate a salt

```
openssl rand -base64 36 2>/dev/null
```

Do not lose this salt once you've started to generate logs. If this salt is lost or reset then all local principal names will appear to have changed to analysis tools so avoid this!

Enable the logging

Add the following options to idp.properties

```
idp.fticks.federation=SWAMID
idp.fticks.algorithm=SHA-256
idp.fticks.salt=<salt>
idp.fticks.loghost=syslog.swamid.se
```