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# What was OpenID 1.1?

- An identity authentication system
- A protocol
  - gratis, libre
- Not a service or company
  - not Passport
  - not TypeKey
- Survives if companies turn evil or go out of business



# Why Was It Developed?

lame



- No authentication was way too common
- Comment spam
- Auth interop
  - LiveJournal
  - TypePad
  - Movable Type
  - WordPress
  - DeadJournal

Name:

Email Address:

URL:

Remember Me? ☐ Yes ☒ No

Comments: (you may use HTML tags for style)

Preview

Post



# Design Goals For Auth

- Low barrier to entry
  - Works with static HTML pages
  - Decentralized
  - Understandable identity (a URL)
    - No new namespace
    - No public keys (key revocation, etc...)
  - No SSL required
  - No browser plugins
- Most simple protocol possible
  - Other needs layered atop



# What is OpenID 2.0?

- An identity system framework
- Multiple protocols
  - Discovery (Yadis)
  - Authentication
    - URLs
    - i-names
  - Messaging (DTP)
  - Profile Exchange (Many layered atop DTP)
- Still not a service or company
- Open community development within the Apache Heraldry Podling



# How's Auth Work?

- Proves “who” you are
  - You own a URL / i-name
  - One-time assertions w/ digital signature
  - See [openid.net](http://openid.net) for specs, libraries, etc
- Not a trust system
  - Spammers can/will/have setup OpenID authentication servers
  - Trust and reputation require authentication
- Trust networks can build atop the framework



# Why URLs as identifier?

- Already the convention
  - 03:47, 3 August 2006 [Xaosflux](#) (Talk | contribs)  
m (Protected Elephant: on colbert again)
  - Click to see more about Xaosflux
- Users don't understand public keys
- Users don't understand namespaces
- Users associate email addresses with spam
- Users do understand URLs
  - 10+ years of billboards and TV commercials
- You can click them
  - Tangible



# Role of the OpenID IdP

- Provide a URL/i-name which the user “owns”
- Provide a way for users to authenticate to itself
  - Auth mechanism not in OpenID spec
  - Common method is password over SSL
  - OTP, Biometrics, etc
    - By using strong auth in one place, all relying parties benefit
- Asserts to a relying party that the person using the browser owns the given identifier





# Deployment

- Relying Parties
  - Six Apart's blogging properties
  - Zoomr
  - ClaimID
  - Opinity
  - WikiTravel
- Patches / Active Development
  - MediaWiki
  - WordPress
  - MoinMoin
  - Drupal
  - phpBB
- Identity Providers
  - *VeriSign Lab's Personal Identity Provider*
  - *MyOpenID.com*
  - *GetOpenID.net*



# Bounty Program

- Ten \$5,000 bounties
- Implement OpenID 2.0 support
- We want to see MediaWiki collecting a bounty!
- Here to help make this happen!

**IWantMyOpenID.org**

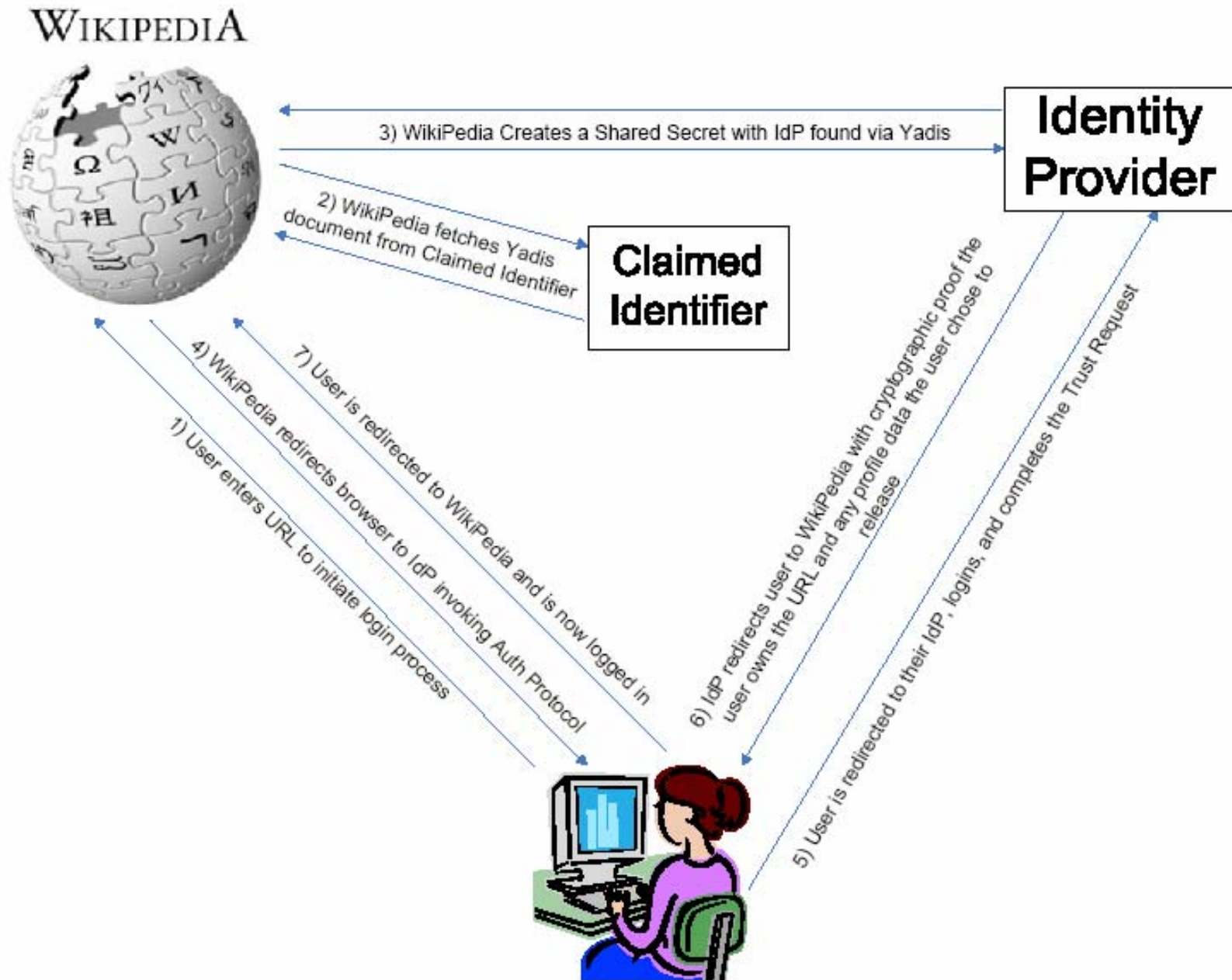


# Code!

- Free libraries on openid.net (moving into Apache)
  - PHP
  - Perl
  - Python
  - C#
  - Ruby
  - Java
  - C++
- Similar API across languages
- Hides low level details of the protocol



# Basic Protocol Flow



# Questions?

[www.OpenID.net](http://www.OpenID.net)

[www.OpenIDEnabled.com](http://www.OpenIDEnabled.com)

[yadis@lists.danga.com](mailto:yadis@lists.danga.com)

[heraldry-dev@incubator.apache.org](mailto:heraldry-dev@incubator.apache.org)

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