LIBERTY ALLIANCE PROJECT

# Open Source Identity Services

## Multi-platform and multi-protocol interoperability with Bandit, Higgins & Others


**Mary Ruddy, Higgins**
mary@socialphysics.org
**Dale Olds, Bandit**
dolds@novell.com
**Pamela Dingle, Pamela Project**
pdingle@nulli.com


Bandit. Novell.

# What's This All About?

- Making all this identity stuff work together no matter what platforms or protocols are in place
- Providing a consistent experience of identity regardless of the underlying technology
- Collaborating to solve these challenges more quickly and ubiquitously
- Doing this in open source
- Writing the code that delivers on these promises


LIBERTY ALLIANCE PROJECT

# Higgins Project

- *Goal:* To improve interoperability, privacy, and security as well as empower users with more control over their personal information
- Higgins is developing an extensible, platform-independent, identity protocol-independent, software framework to support existing and new applications


LIBERTY ALLIANCE PROJECT

# Higgins Scope

- Consistent user experience based on card icons
- Empower users with more control over personal information
- Provide an API and data model for the virtual integration of identity and security information
- Provide plug-in adapters to enable existing data sources
- Provide a social relationship data integration framework


LIBERTY ALLIANCE PROJECT

# Higgins Code

- An Identity Attribute Service (IdAS)
  - Simultaneously supports multiple Context Providers to abstract identity information from LDAP, SAML, OpenID, infocard, RDF
  - A framework relevant to user agents and network services
- An infocard provider and Security Token Service (STS)
  - Uses IdAS such that identity information comes from multiple identity providers
- Multiple forms of Identity Agents
  - Web-based and client-side card managers, browser extensions, and user interface (infocard selectors)


LIBERTY ALLIANCE PROJECT

# Bandit Project

- The Bandit Project is a completely Open Source project sponsored by Novell
- Builds on Novell's expertise in identity systems and open source software
- Implements open standard protocols and specifications such that identity services can be constructed, accessed, and integrated from multiple identity sources
- The Bandit community is not doing this in isolation. We are doing our part to build foundational components of the emerging identity fabric. We work with industry standards and other open source projects to provide open, interoperable, decentralized, identity services


LIBERTY ALLIANCE PROJECT

# Bandit Scope

- The Bandit project develops loosely-coupled components with an enterprise focus
- Provides consistent identity services for Authentication, Authorization, and Auditing
- Integrate identity systems: no new protocols, support existing APIs
- Bandit consumes Higgins components and members of the Bandit team are contributors to Higgins
- Bandit (unlike the name implies) collaborates with and contributes to other projects, e.g. OpenXDAS, Pamela Project, xmldap


LIBERTY ALLIANCE PROJECT

# Bandit Code

- Identity Attribute Service (from Higgins)
- Authentication Services (CASA)
  - client credential store and authentication service
  - simple security token service with Kerberos support
  - server side authentication modules: JAAS, JACC, mod-casa
- Role Engine
  - hierarchical, temporal constraints, static, dynamic exclusion
  - only calculate role based on service policy, no role design or management
  - leverages Sun XACML open source component
- Audit Record Framework (ARF)
  - Event submission framework using standard structured format for identity data


LIBERTY ALLIANCE PROJECT

# Open Source Collaboration

- Pamela Project (new!)
  - Champions robust, open source relying party code development and integration for information card technologies.
  - Initial plugin for Wordpress shown in this demo
- xmldap.org
  - browser based infocard client, identity selector
- OpenXDAS, SunXACML, and others
- MediaWiki, Wordpress, Linux, Firefox, PHP, etc.
  - many services in this demo are on a completely Open Source LAMP stack

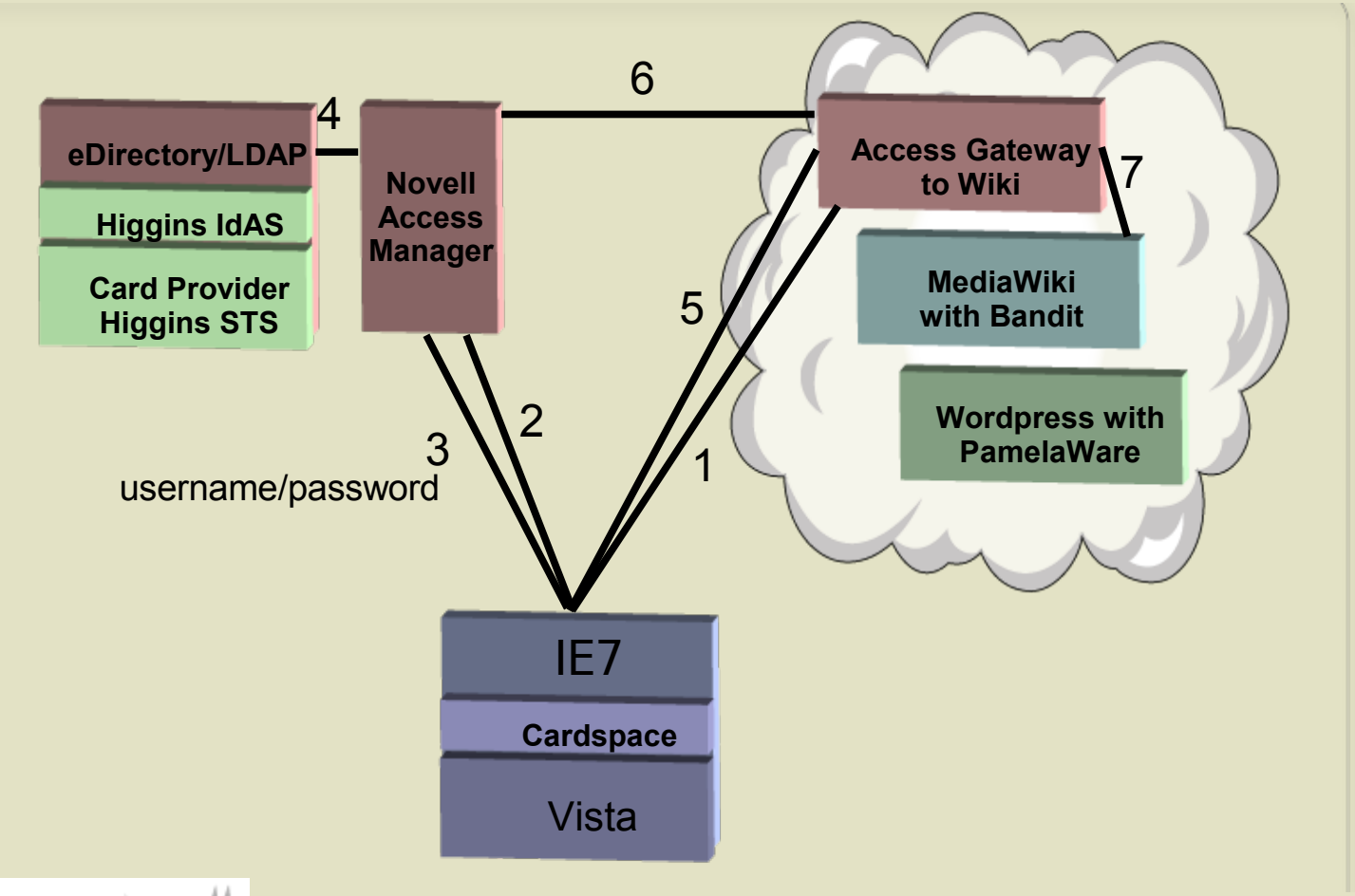

LIBERTY ALLIANCE PROJECT

# Demo Overview

- Access wiki though gateway with username, password
  - User account in Wag via Novell Access Manager (NAM)
  - Muzzle is an access gateway (NAM) acting as Liberty Service Provider
- Generate managed card from personal card
  - Gets identity data from NAM using Higgins IdAS and LDAP
- Access wiki though gateway with card
  - managed card linked from personal card
  - NAM acting as a Relying Party
- Access MediaWiki directly with card
  - authorization and audit based on card data using Bandit components
- Access Pamela Project WordPress blog with card


LIBERTY ALLIANCE PROJECT

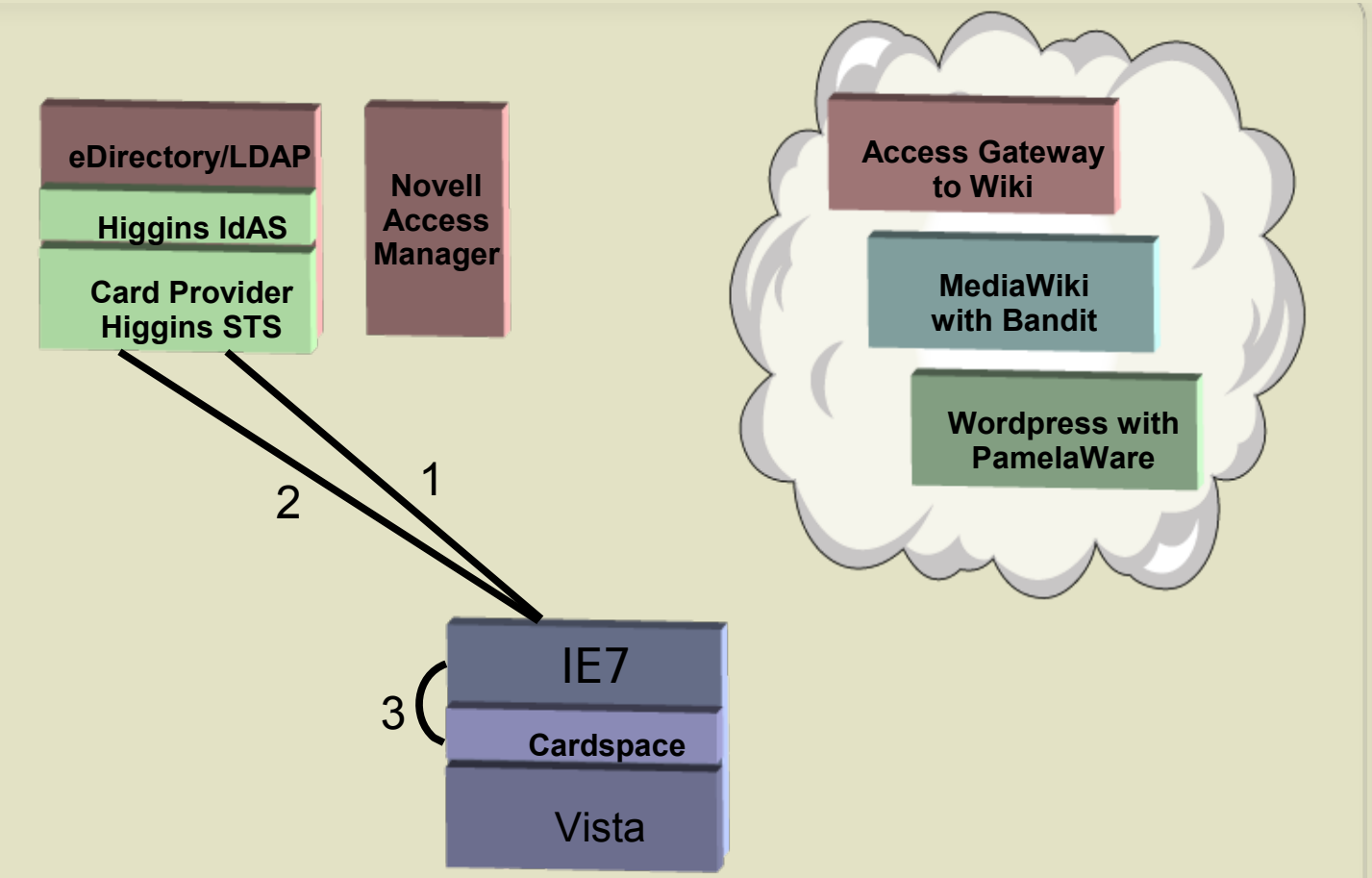
# Access Wiki




Bandit.

LIBERTY ALLIANCE PROJECT

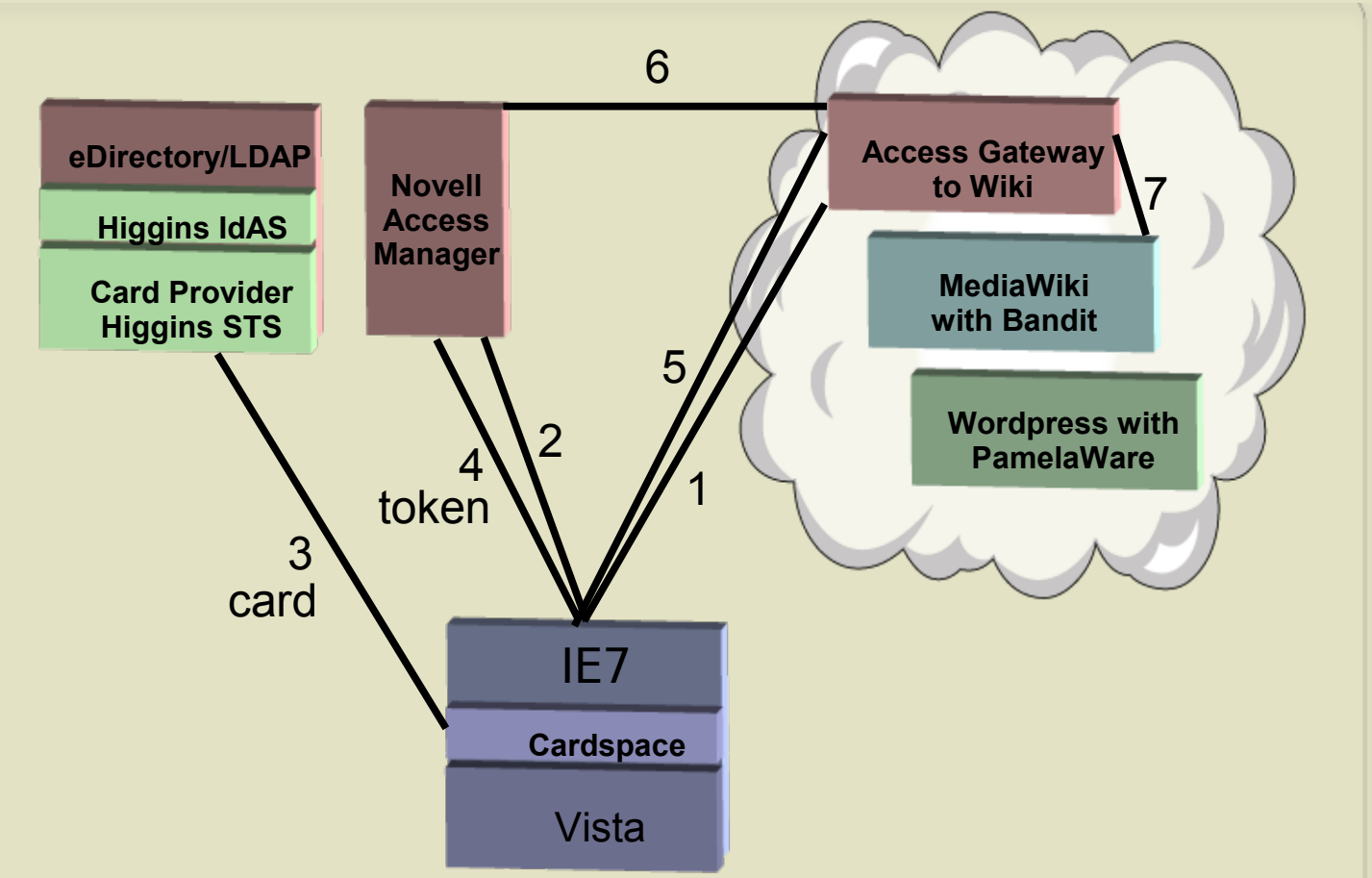
# Generate Managed Card




Bandit.

LIBERTY ALLIANCE PROJECT

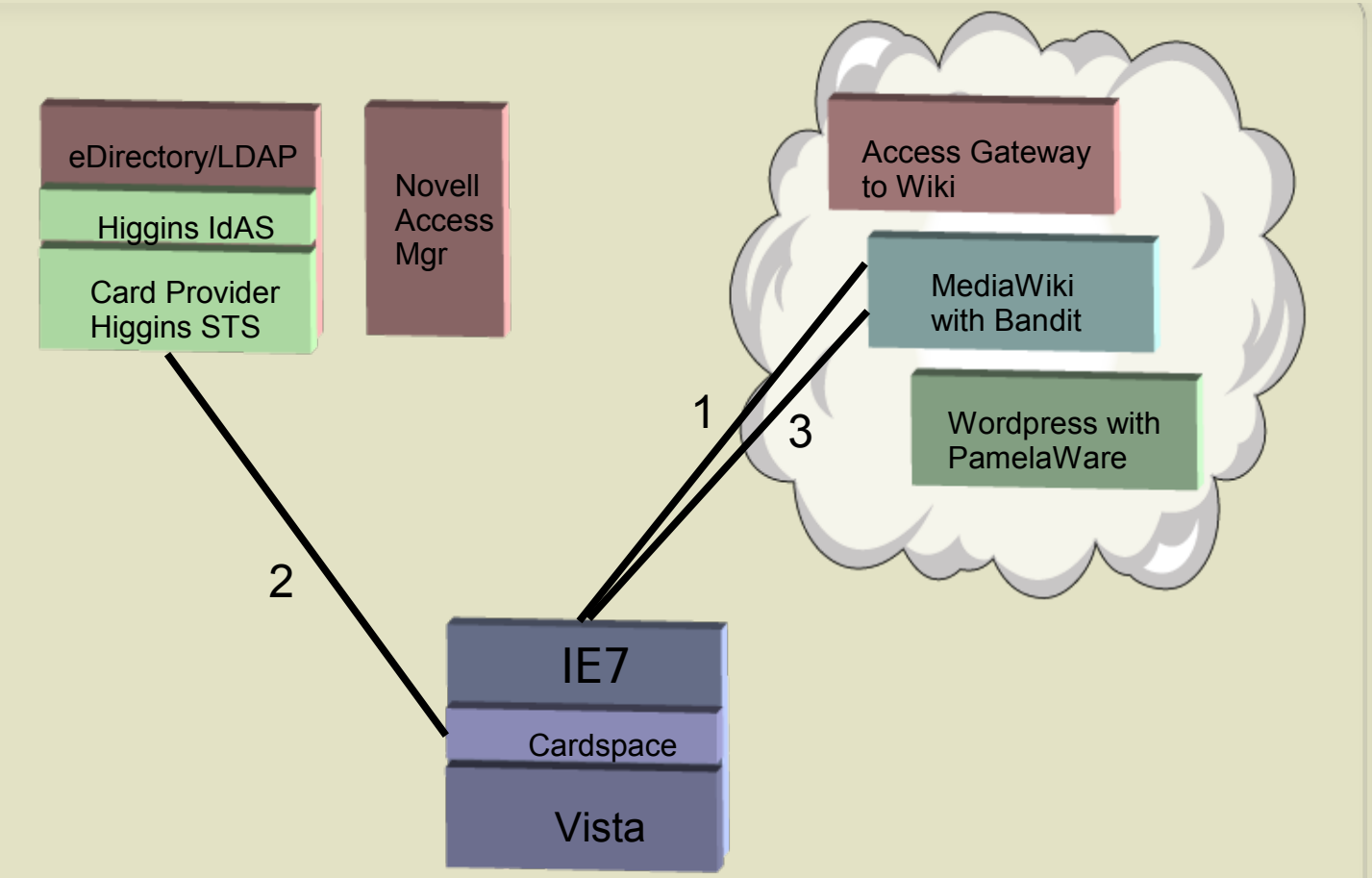
# Access Wiki Through Access Gateway With Card





LIBERTY ALLIANCE PROJECT

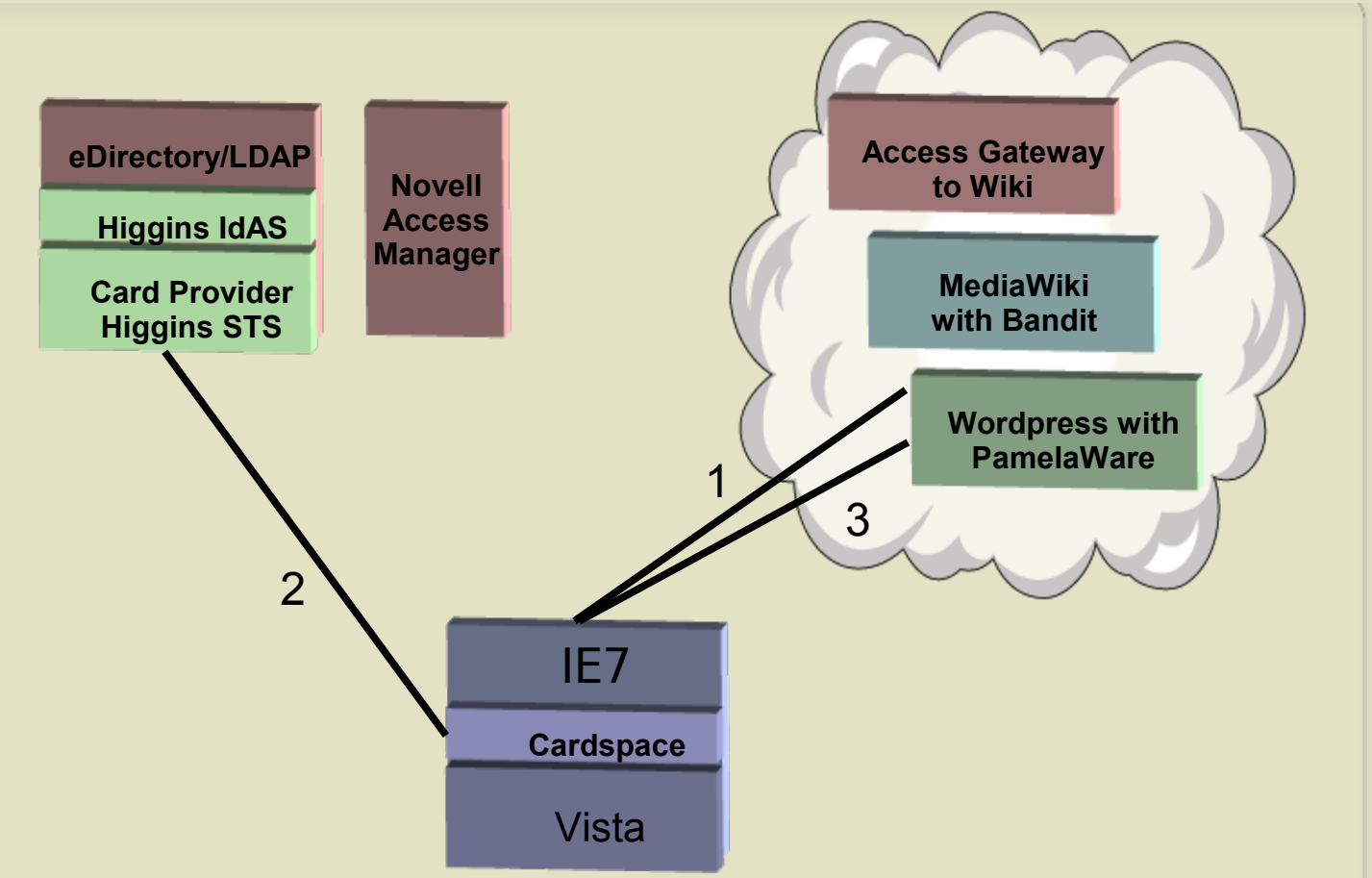
# Access MediaWiki Directly With Card




Bandit.

LIBERTY ALLIANCE PROJECT

# Access Pamela Project WordPress Blog With Card




Bandit.

LIBERTY ALLIANCE PROJECT

# Show Me More

- Come talk to us after the presentations today
- See the demo in Novell's booth #1937 in the Expo hall
- Check out the code at our project sites:
  - http://www.eclipse.org/higgins
  - http://bandit-project.org
  - http://pamelaproject.com
  - http://xmldap.org
- Contact us for more information:
  - Mary Ruddy, Higgins; mary@socialphysics.org
  - Dale Olds, Bandit; dolds@novell.com
  - Pamela Dingle, Pamela Project; pdingle@nulli.com


LIBERTY ALLIANCE PROJECT

# How Can My Company Benefit?

- If you have identity silos, you need this glue
  - Don't rip and replace – extend what you already have
  - Gain a consistent approach to identity-enabling applications
  - Provide users with a consistent experience of identity across platforms
- Code is out there, go kick the tires
  - use it
  - contribute
  - influence
- Open source integration of major identity systems – the walls are coming down


LIBERTY ALLIANCE PROJECT