

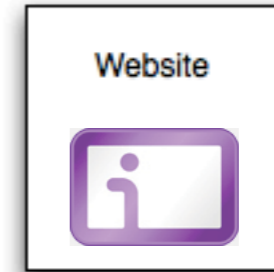
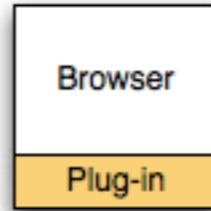
# Identity in the browser at 5. Lessons learned.

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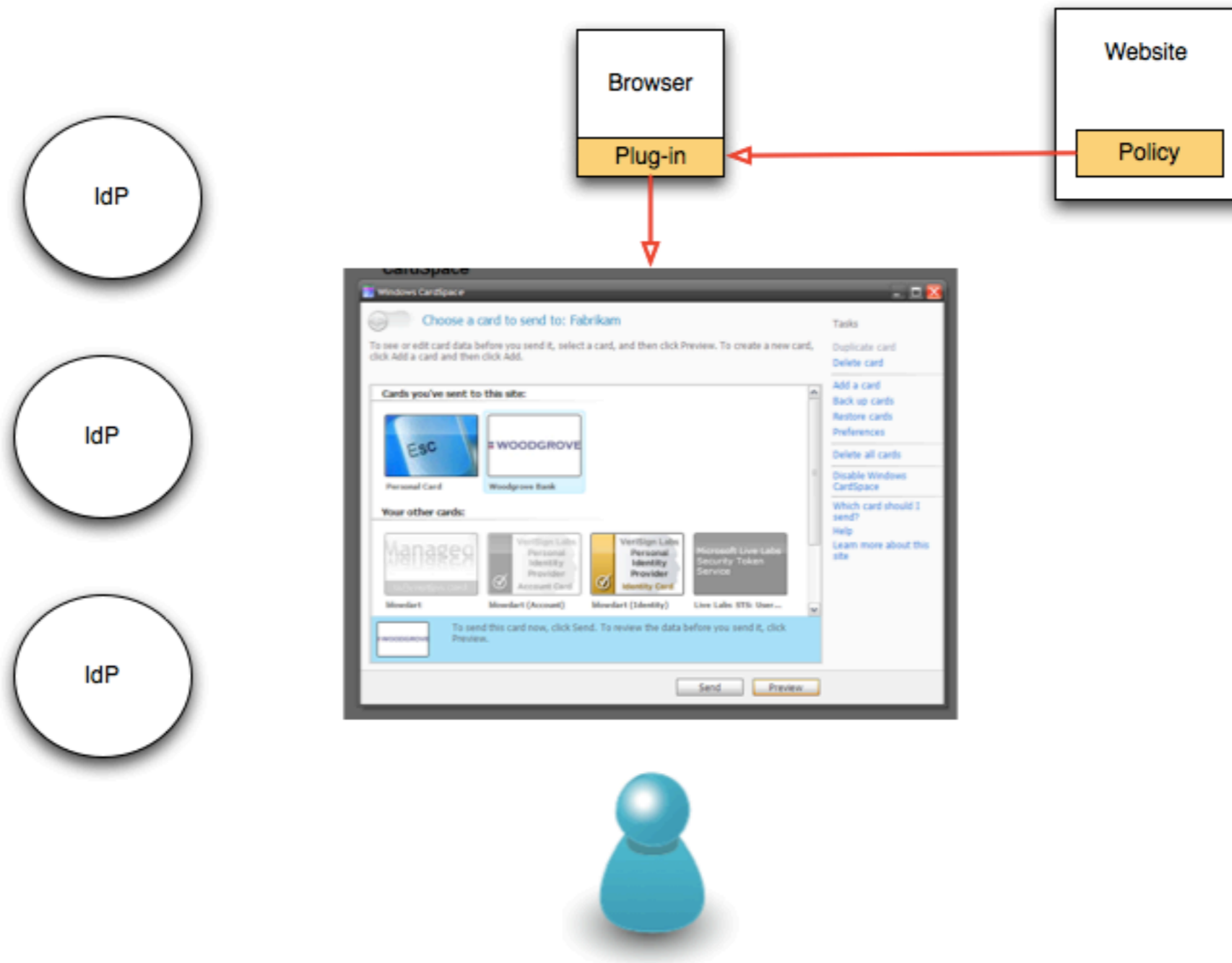
Paul Trevithick  
paul@azigo.com  
informationcard.net  
higgins-project.org

# Infocard in 60 seconds flat

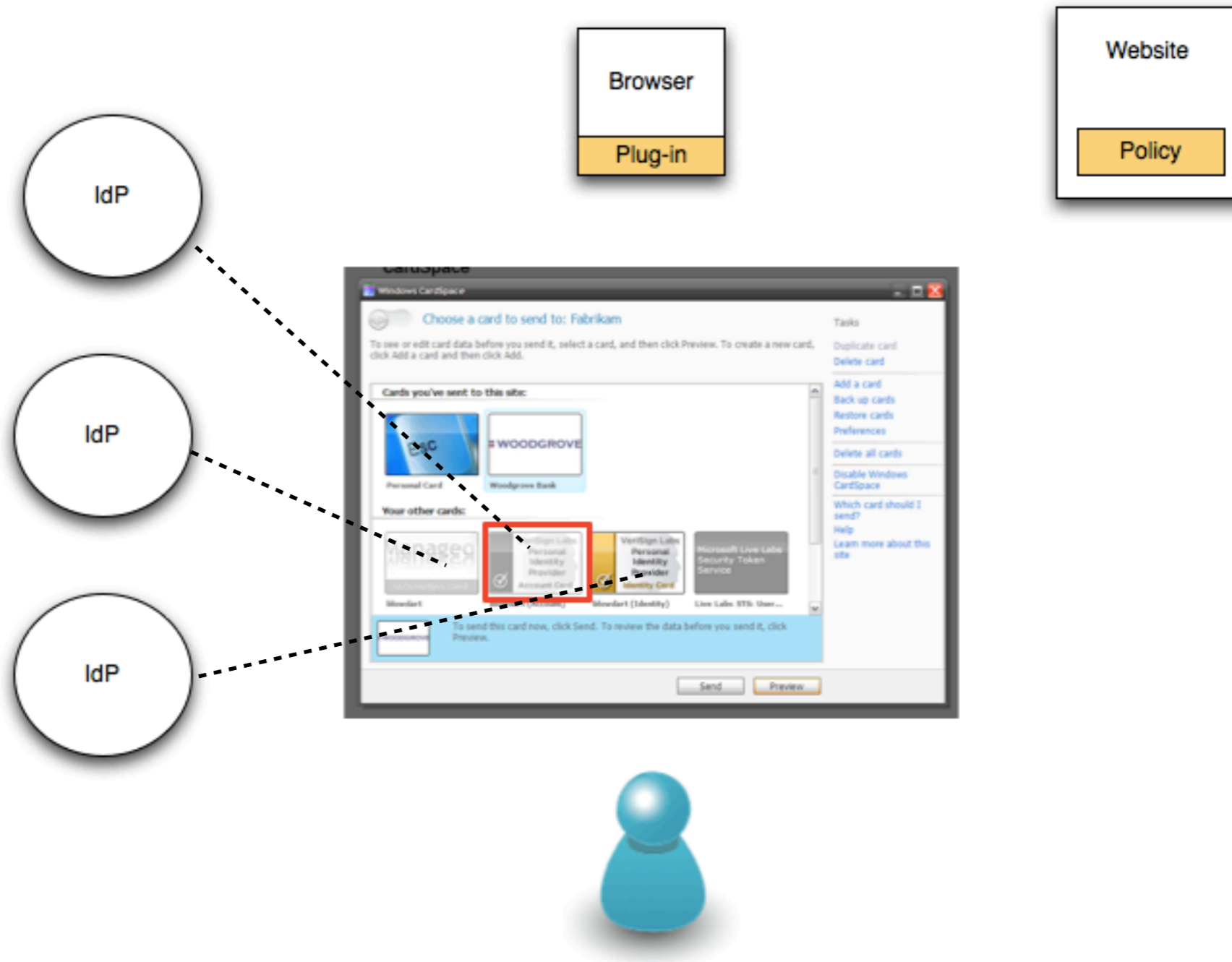
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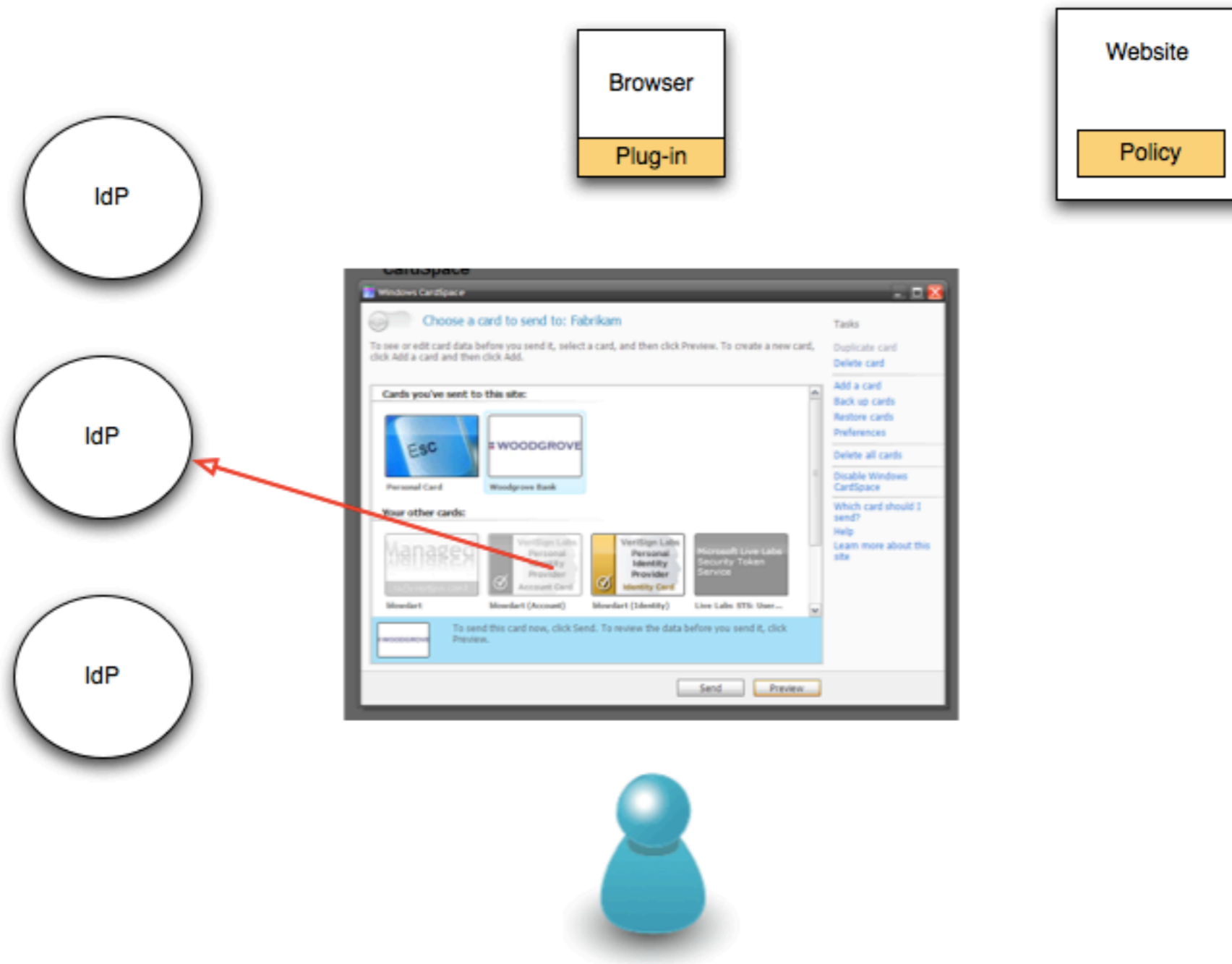
# Click: Card picker window appears



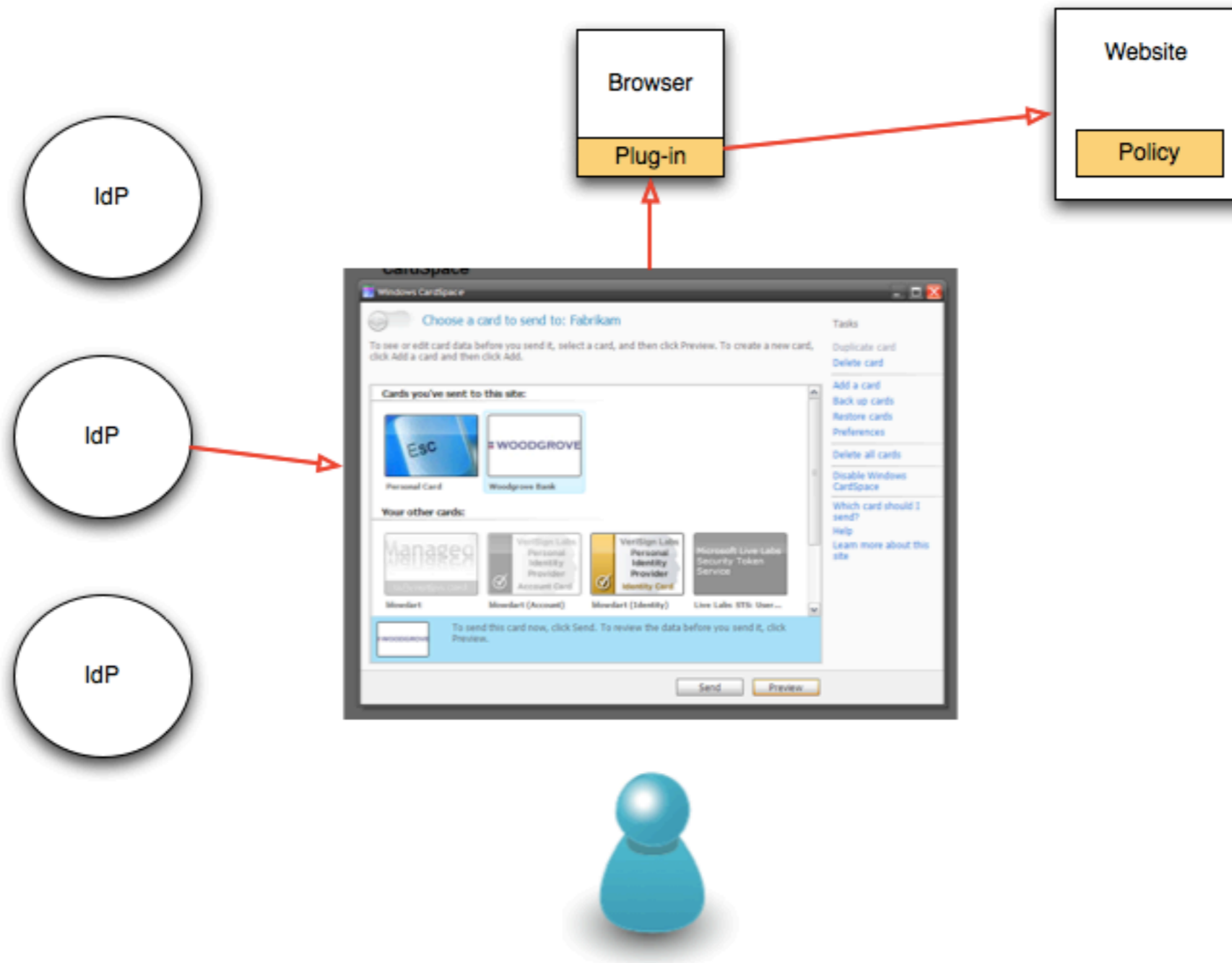
# User clicks on a card



# User authenticates to card/IdP



# Token is retrieved and HTTPS POST-ed to site



# Good & bad

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- We got it right from the start
- We got it wrong at first but eventually got it right
- We still haven't got it right

# Capabilities

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- **User-centric and decentralized architecture**
- **Claims (attributes) not identifiers**
- **Self-asserted and third-party asserted claims**
- **Extensible schema**
- Claims as URIs
- End-to-end crypto, audience restriction, verified claims
- Separation of token format from network protocol
- Browser-initiated (not SP-initiated) flow; anti-phishing protection
- **Passive advertisement of website policy**
- **Privacy: minimal disclosure, pseudonym generation**



# User Experience

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- **Support for multiple identities (cards)**
- **Automatic card matching & filtering (no more NASCAR)**
- **Roaming support**
- **Cross-browser, cross-platform (including mobile)**
- **Unmodified browser support**
- **Cross-protocol: should have invested more in building bridges**
- Finding the right balance
  - **Transparency, notice & consent vs. usability**
  - **Performance vs. security**

# User Experience

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- Dynamic claims (e.g. for payment use-cases)
- Claims aggregation
- Attribute/claim providers vs. identity providers

# Driving adoption

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- **Put majority of resources on winning SPs/RPs (not IdPs)**
- **Avoid having a single, dominant vendor in the ecosystem**