

# Use Case: Applying ID-WSF for Policy and Consent

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# Liberty Architecture

## Liberty Identity Federation Framework (ID-FF) & Security Assertion Markup Language (SAML) 2.0

Enables identity federation and management through features such as identity/account linkage, simplified sign on, and simple session management

## Liberty Identity Services Interface Specifications (ID-SIS)

Enables interoperable identity services such as personal identity profile service, contact book service, geo-location service, presence service and so on.

## Liberty Identity Web Services Framework (ID-WSF)

Provides the framework for building interoperable identity services, permission based attribute sharing, identity service description and discovery, and the associated security profiles

Liberty specifications build on existing standards (SAML, SOAP, WS-Security, XML, etc.)

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# Problem statement

- Policy service for mobile operators
- Personalization of mobile content services
  - Profile-based
  - Location based
- Assure compliance
- Passive and active access controls to services and content
- Preserve user privacy
- Application of policy to pseudonymous users
  - Present user identifiers are veronymous
- Preserve brand loyalty
- Provide tools for subscriber/account owner
- Enablement of additional Identity-based services

# Policy Service - Business Case Drivers

- **Enable new content revenue streams**
  - Policy Service unlocks revenue
- **Reduce implementation costs via focused partner (outsource)**
  - One-effort Per Transport for: a) On-Net, b) Off-Net and c) MVNO
- **Reduce or eliminate liability and revenue loss risks**
  - Establish content category rules first, or permit others to establish them and follow
  - Compliance for all rated content, including audit tracking
- **Standard Mobile Single-Sign-On process (for everyone)**
  - Create the common database shared across multiple user services
  - Single mobile profile layer vs. Internet which is based on a concoction of one-off portals
  - Prevent Spam from churned subscribers
- **Value-Added IT provisioning benefits**
  - In addition to Profile Services\_MDN/SSO Password, Owner/User Controls, Age Verification/Access Code, Content Filter Setting
  - Conversion: MDN-to-IP Address (MMS ENUM)
  - Conversion: MIN-to-MDN for legacy product support
  - Conversion: Device discovery capability
  - Legal compliance and Fraud management analysis

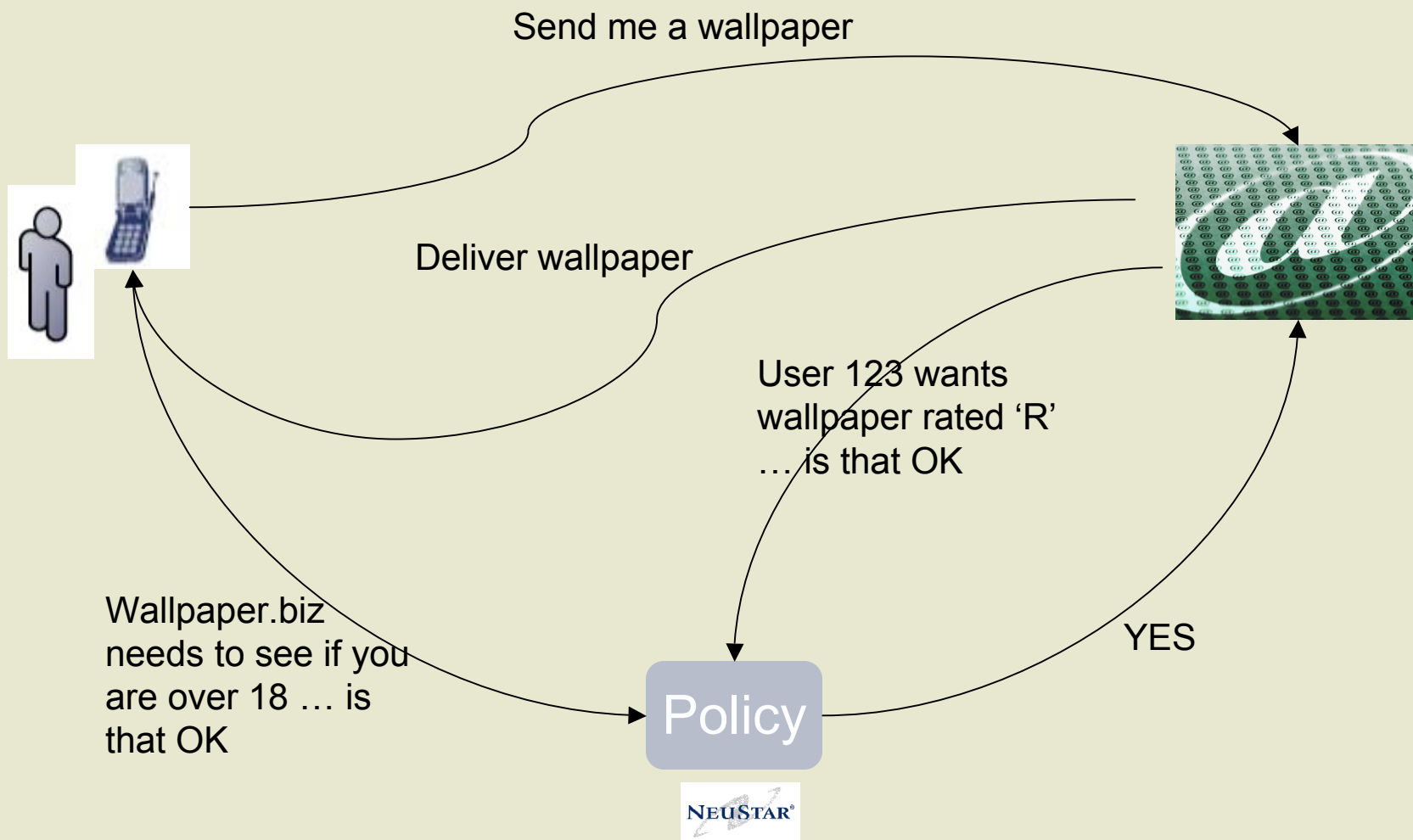
# Customer scenarios

- Common Short Codes
  - Issues
    - Reveals subscriber identifiers
    - Otherwise anonymous
  - Solution
    - Opaque identifiers
    - Policy service for ensure appropriate use
- WAP-based browsing
  - Issues
    - Enforcement of subscriber policy
    - Sub-account policies
  - Solution
    - Carrier asserts subscriber policy
      - Dictated by account owner
      - ... and carrier policy

# Solution

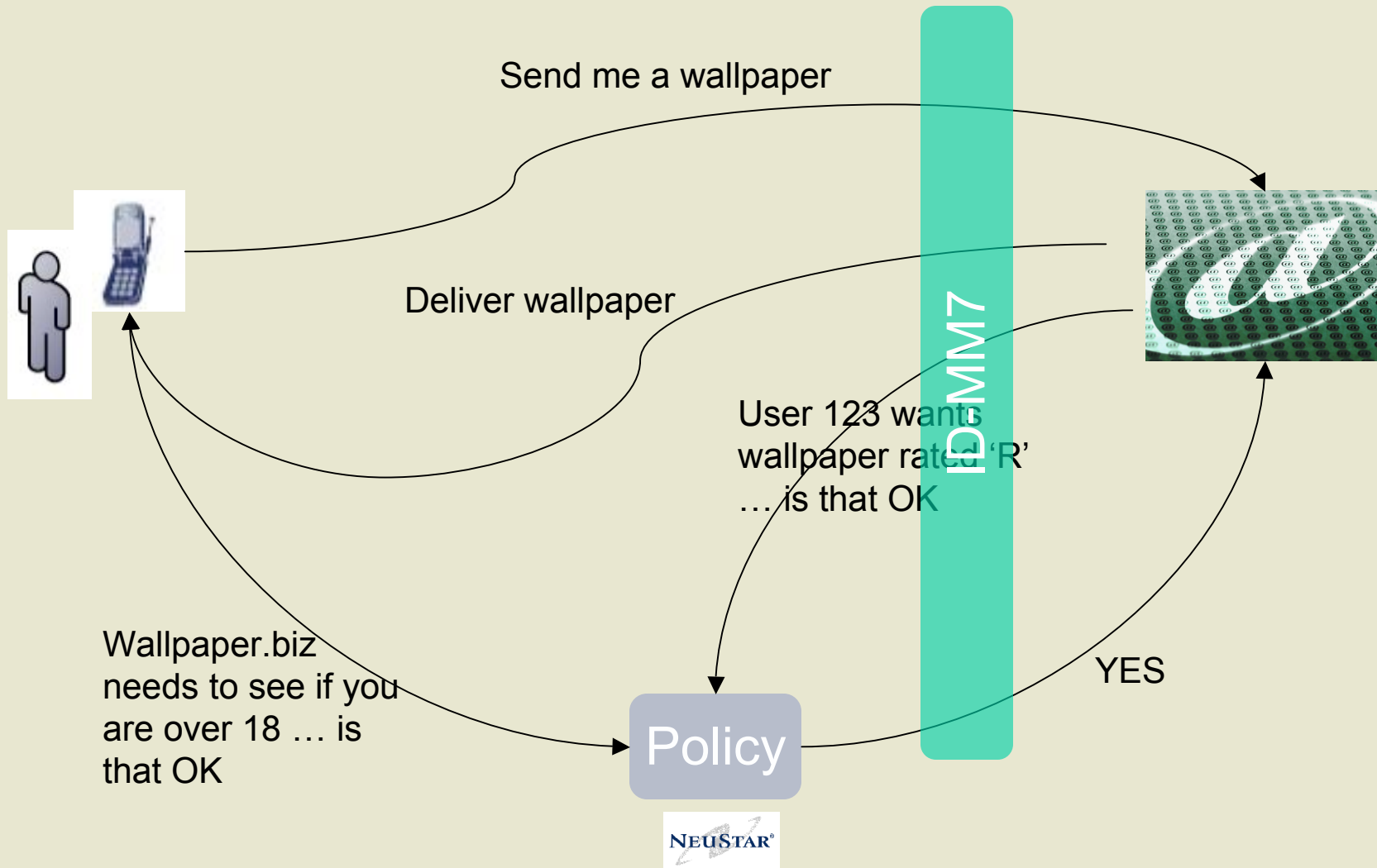
- Authentication fulfilled by SAML 2
- Leverage existing ID-WSF capabilities
  - Consent
  - Usage policy
- New ID-SIS required
  - Policy service defined
    - Issue policy
  - Application of XACML

# What was done - Mobile Originated





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# Summary

- Privacy controls
- Parental control
- Compliance capability
  - Auditing
  - Compliance
- Open revenue opportunity
- Ensure subscriber opt-in