



Identity Governance Framework openLiberty Project

January 2008

History

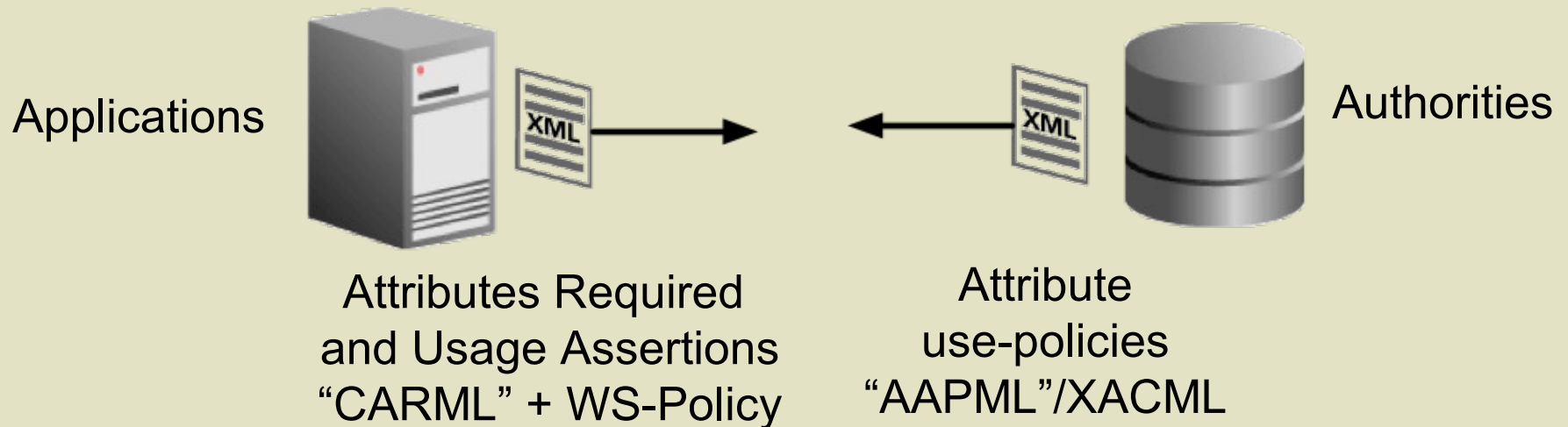
- Initial announcement in November 2006
 - Led by Oracle, support from CA, Layer 7, HP, Novell, Ping Identity, Securent, Sun Microsystems
 - Released key draft specifications for review
 - CARML and AAPML draft specifications
 - Sample CARML API
- Work begins in Liberty Alliance in Feb 2007
 - Creation of MRD - Use-cases, Scenarios, End-to-End Examples
 - Computer Associates, France Telecom/Orange, Fugen, HP, Intel, NEC, New Zealand, NTT, Oracle
 - MRD document released July 2007
 - TEG Work started fall 2007

Current Status

- Two Track Approach
 - Development of open source components at www.openliberty.org
 - Core components based upon Apache 2.0 license
 - Broadly embeddable developer API and tools, IDEs
 - Start with Java and expansion to other languages (future)
 - Aligned with open source ecosystem (Higgins)
 - Re-use existing components wherever possible
 - Simultaneous with creation of Liberty final specification drafts
 - Technical work – specifications and profiles – ongoing at Liberty Alliance TEG
 - Builds on IGF Market Requirements Document and CARML, AAPML draft specifications

IGF Focus

- A set of declarative contracts that document and govern exchange of identity-related data between consumers and providers.



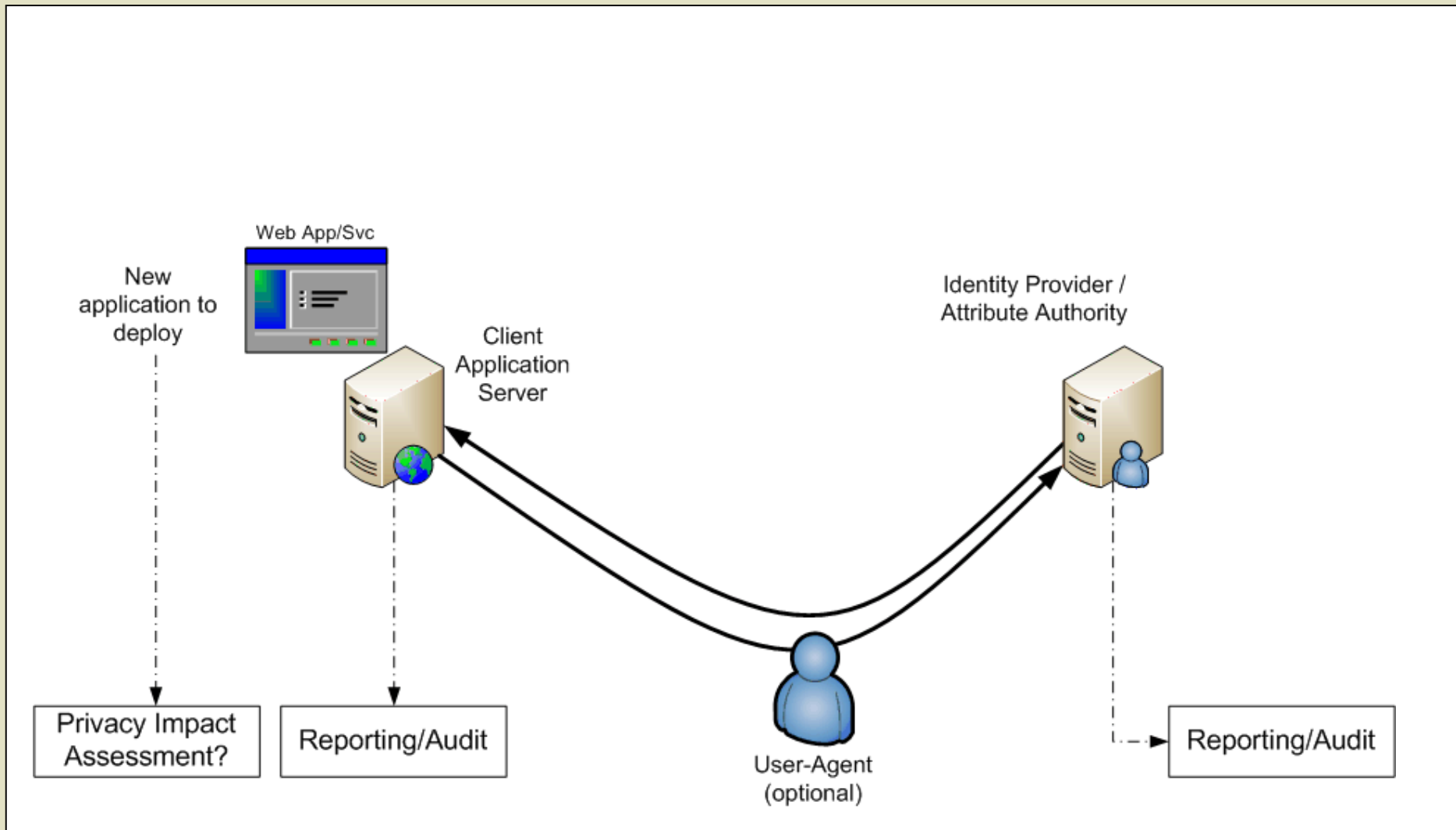
Perspectives

- Application developers \neq identity experts
 - High-level expression of identity requirements
 - Ability to use silo'd and standardized schemas
 - Tools and frameworks for developers are key
 - Otherwise, identity data will be copied and duplicated...
- Deployers
 - Ability to understand schema and transactions in advance
 - Support for Privacy Impact Assessment
 - Ability to map client requirements to identified authorities (sources)
 - Ability to apply deployment declarations and requirements
- Users
 - Capture what agreements the user accepted
 - Reflect consent and purpose of data use
 - But IGF does **not** directly address interactions with users
- Attribute Authorities
 - Increasing drive to publish identity data outside the “silo”
 - User consent must be supported and enforced
 - Enable custodians of identity data to express use constraints

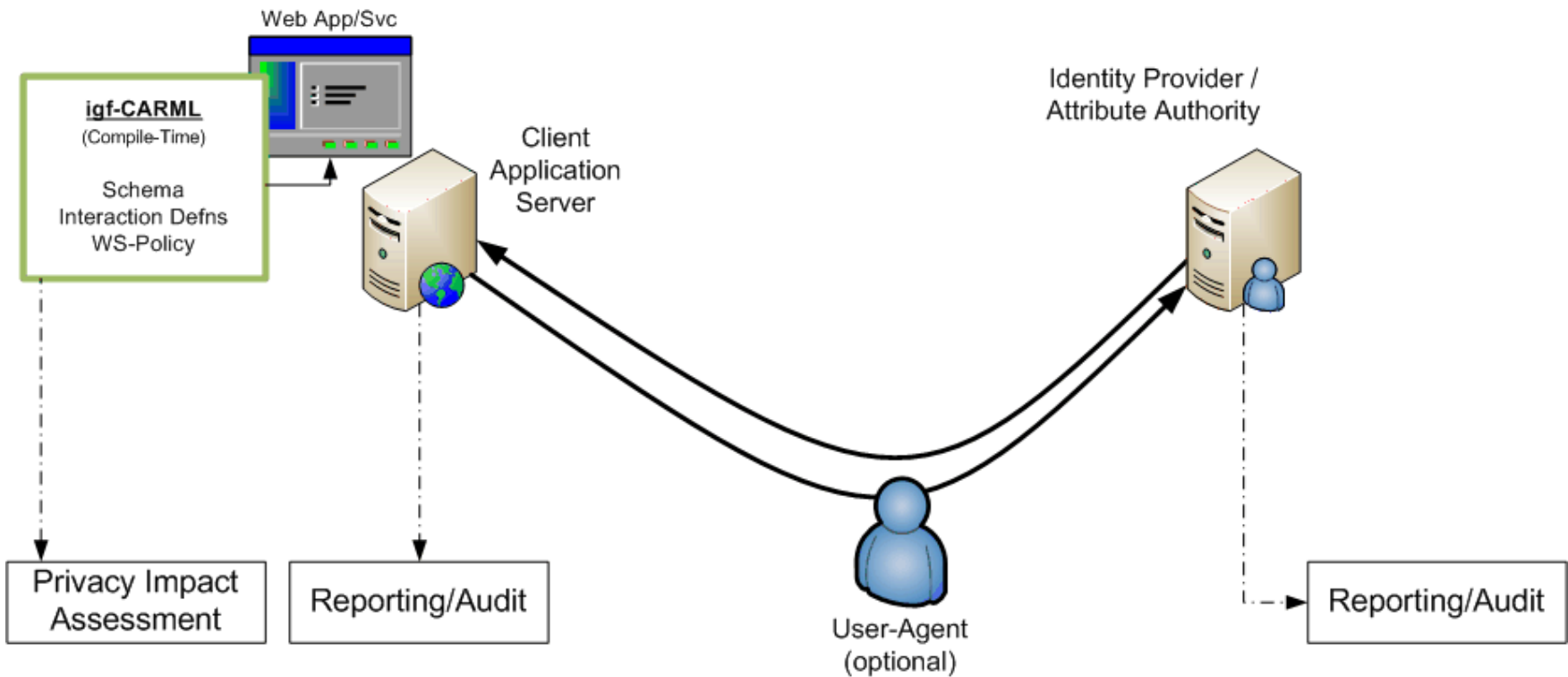
Proposed Standards Components

- **CARML** – Defines application identity requirements
 - what identity information an application needs and how the application will use it.
- **WS-Policy** Support
 - igf-AppIdPolicy - Compile time assertions & declarations
 - igf-DeployIdPolicy - Deployment time assertions & declarations
- **AAPML** – Defines identity use policies (XACML)
 - Constraints on user and application access to personal data
 - obligations and conditions under which data is to be released
- **Attribute Service** – Profiles of existing protocols
 - Support for browser-centric and backend approaches
 - Mapping & translation
 - Policy aware
 - igf-TransactionMetadata - full information context & exceptions

IGF Walk-thru



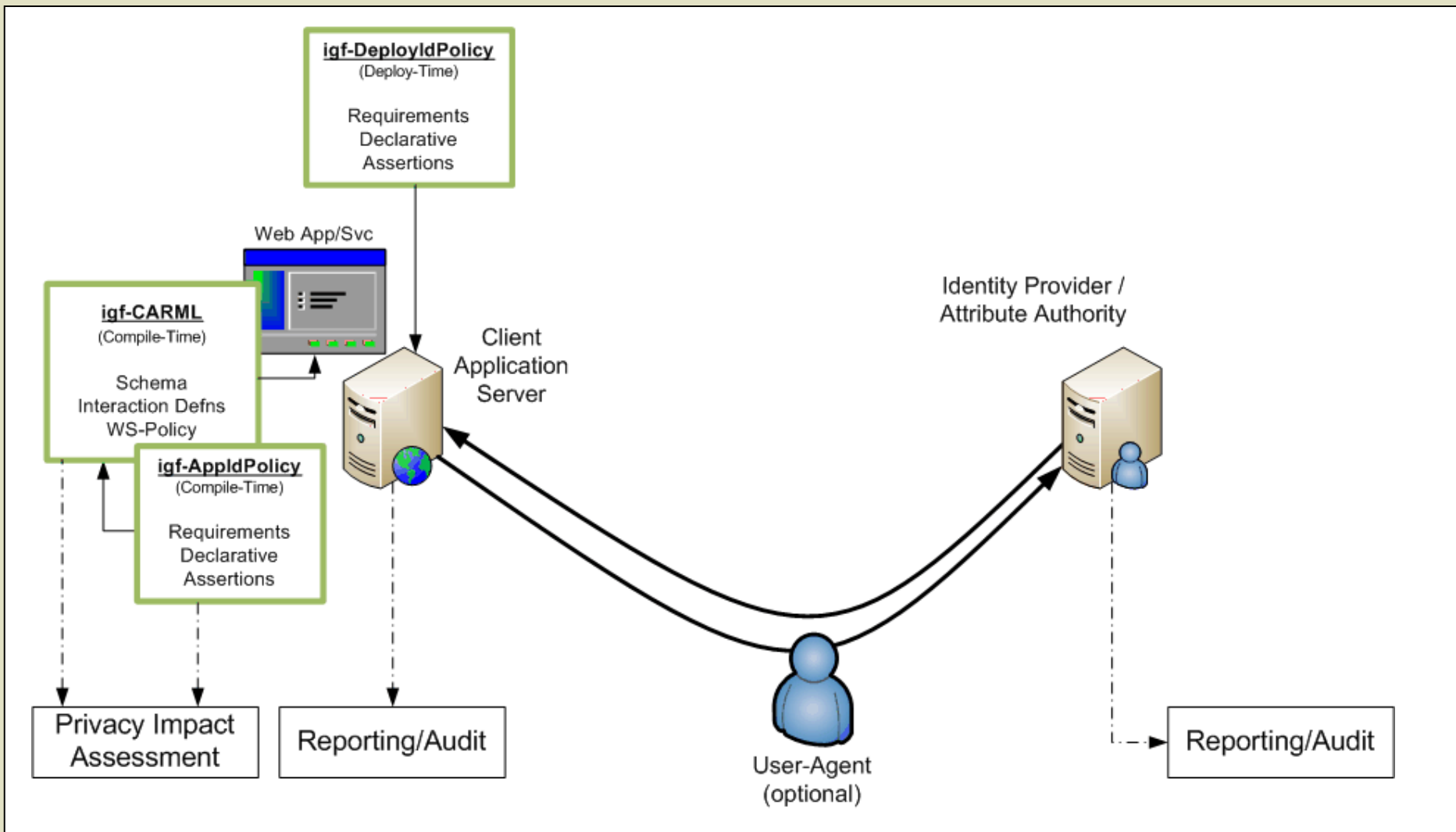
IGF Walk-thru



CARML

- Schema
 - Attributes
 - Predicates
 - Roles
 - Filters
- Interactions
 - Type: Authenticate, Search, Read, Add, Modify, Delete
- WS-Policy * (new)
 - Can be associated with schema and/or interactions
- “Anything that can and should be defined at compile time that minimizes or avoids binding”

IGF Walk-thru



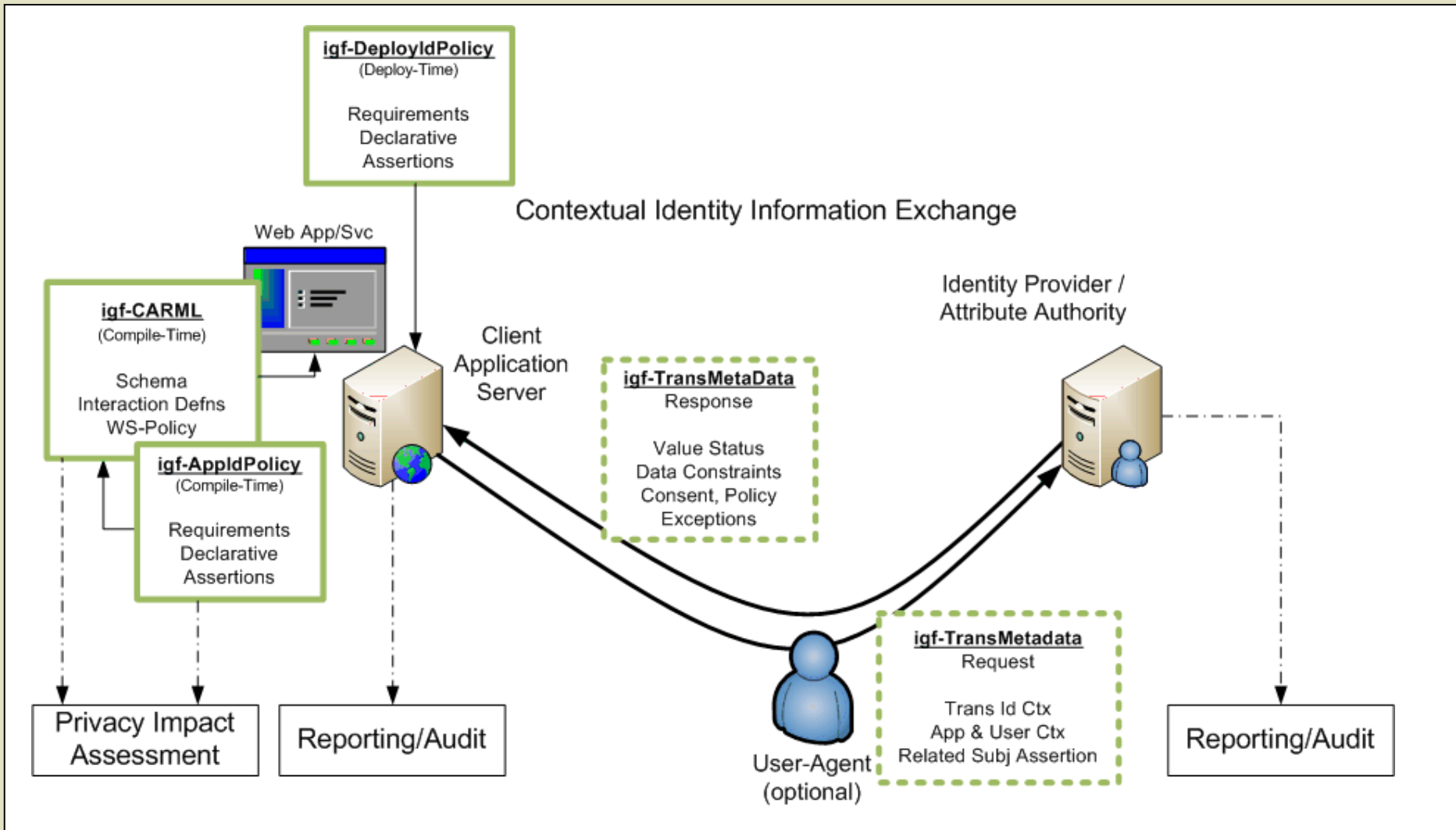
WS-Policy Assertions

- igf-AppIdPolicy
 - *Compile-Time Assertions by Developer*
- Assertions
 - Purpose
 - Retention
 - Duration & Archive Policy
 - Memory Cache
 - Processing (transient, encrypted, etc)
 - DataDisplayMask
 - ValueMask
 - PropagationServiceDefn

WS-Policy Assertions

- **igf-DeployIdPolicy**
 - Deployment time assertions
 - **Assertions**
 - DeployedPurpose
 - PropagateEndpoint
 - DataLossOrBreach
 - ContractOrContext
 - AssuranceRequest

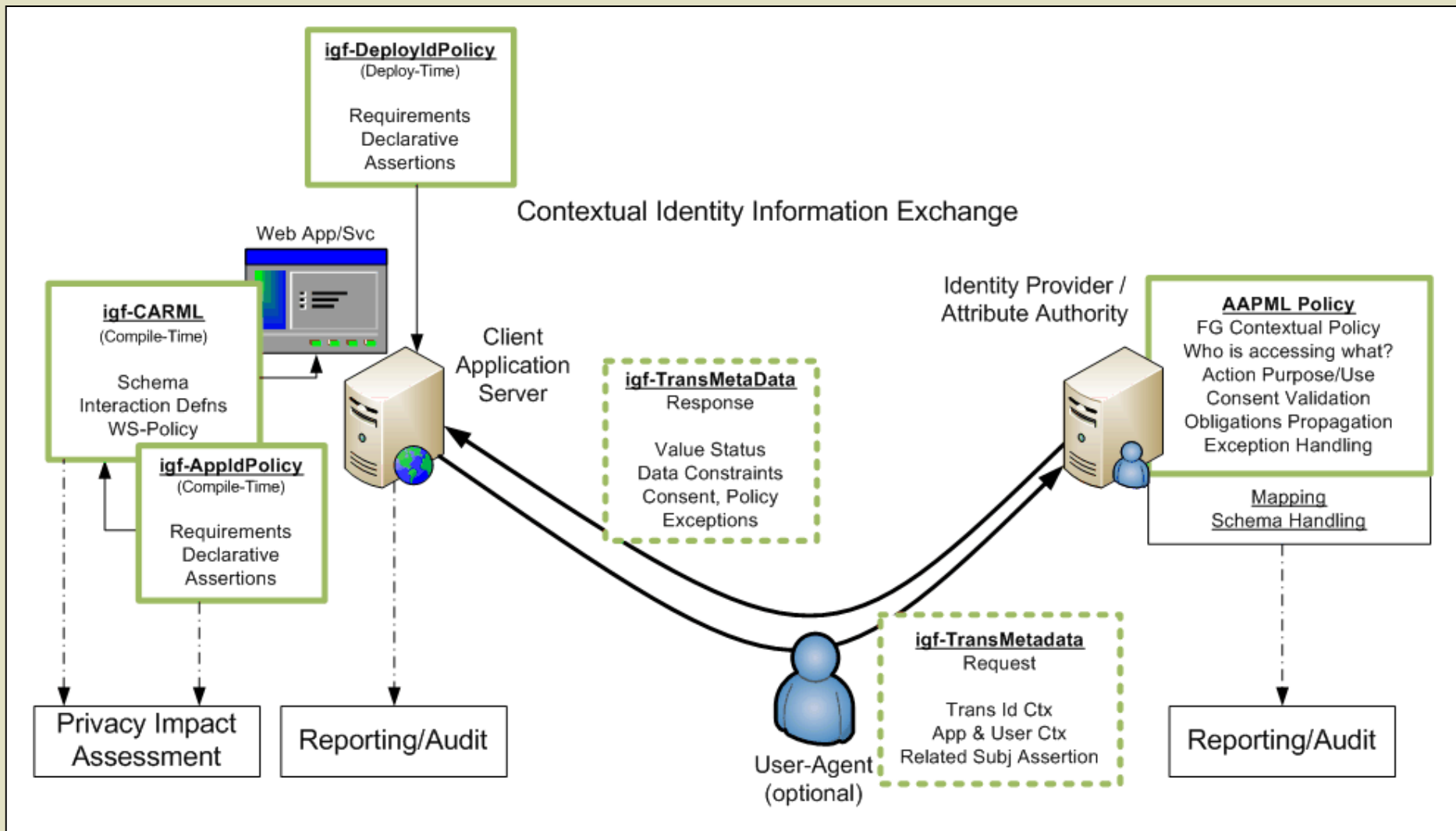
IGF Walk-thru





Transaction Metadata

- WS-Policy like assertions
 - Not protocol specific
 - Request Assertions
 - Appld
 - ActiveUser
 - RelatedSubject
 - InteractionId
 - Response Assertions
 - ValueNotDefined
 - ValueDefaults
 - ValueDerived
 - ValueAssurance
 - DataConstraint
 - UndefinedException
 - ConsentExcetioin
 - PolicyException

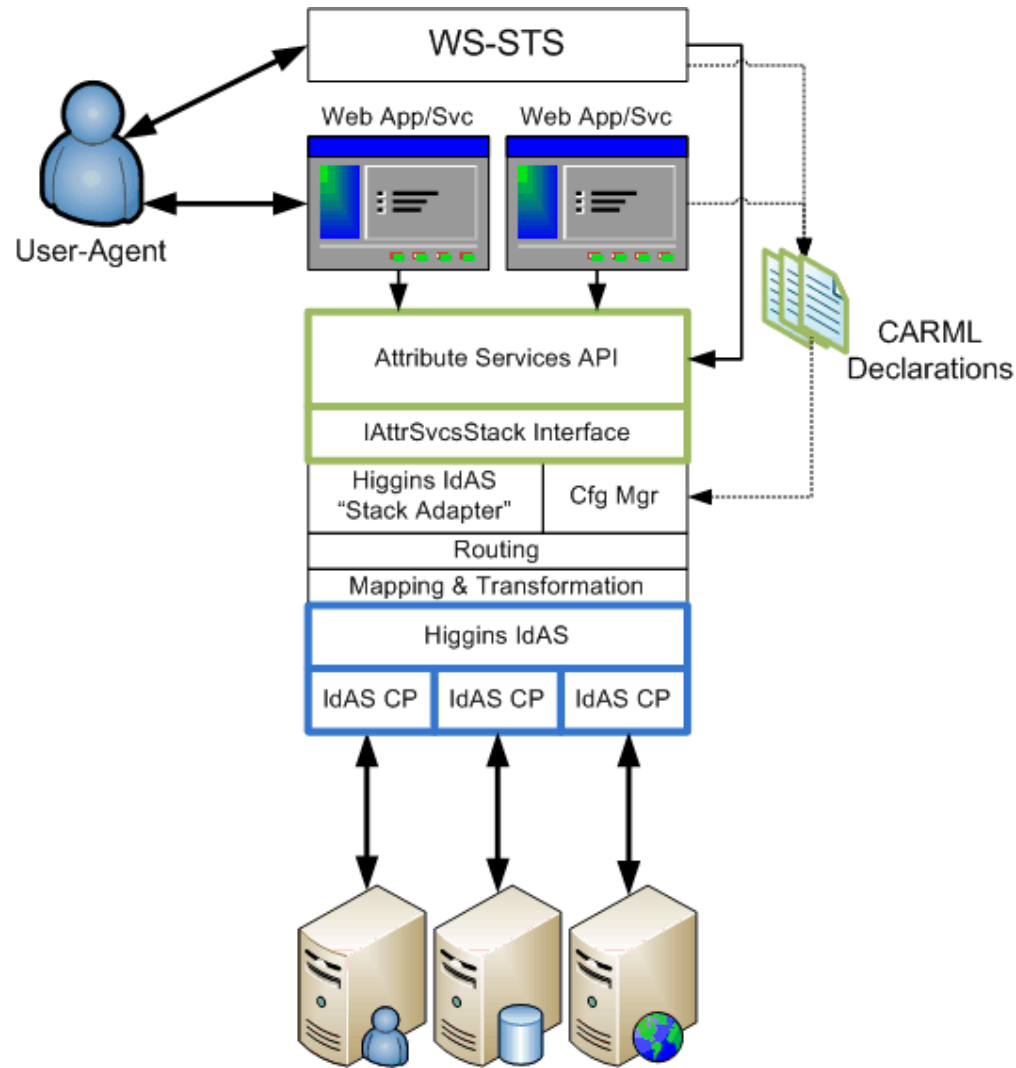
IGF Walk-thru



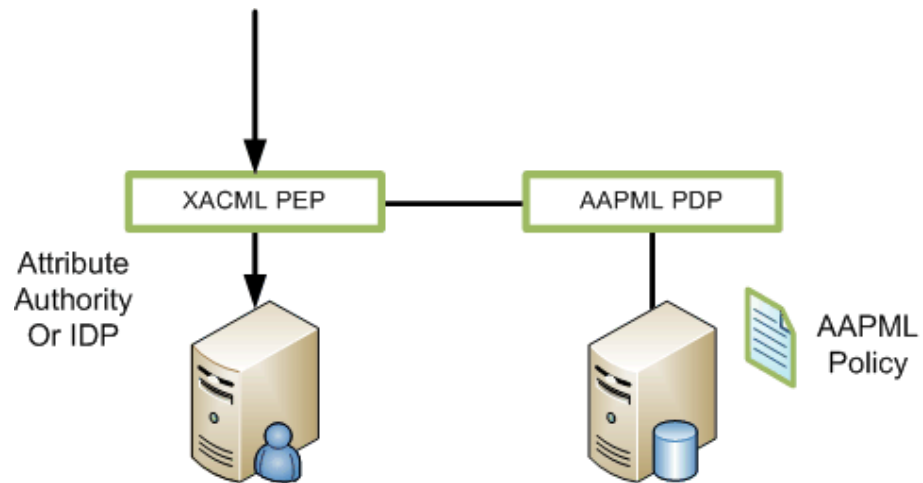
Assurance, Governance and Run-Time Protocols

<p><u>Assurance</u></p> <p>Liberty IAF, PCI, Privacy Legislation</p>	<p>Requirements that an enterprise or group of enterprises should meet to obtain certification.</p> <p style="text-align: center;"> <i>impacts</i></p>
<p><u>Governance</u></p> <p>IGF XACML WS-Policy Audit Standard?</p>	<p>Policy creation and update, policy enforcement, audit, decision explanation</p> <p style="text-align: center;"> <i>impacts</i></p>
<p><u>Run-time Protocols</u></p> <p>SAML 2.0 ID-WSF WS-*, LDAP</p>	<p>Run-time protocols and wire representations.</p>

Attribute Service & Higgins



Attribute Service & Higgins



Learn More

- <http://www.openliberty.org>
- Inquiries to
 - Mail: phil.hunt@oracle.com & prateek.mishra@oracle.com
 - Blog: blogs.oracle.com/identityprivacy