

Boundaryless Directories for Boundaryless Information Flow

The Directory Interoperability Forum

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Some Relevant and/or Irreverent Quotes

“Human experience of **identity** has two elements;
a sense of belonging and a sense of being separate”

-Salvador Minuchin (1974)

“The whole campaign was a tragic case of mistaken **identity**”

-George McGovern on his unsuccessful 1972 presidential campaign

“**Architecture** is a chained and fettered art. Far from being ‘frozen music’, it is an art constantly attempting to realize in solid, stable form those effects which music is able to conjure up in an instant”

-John Newenham Summerson (b. 1904), British architect

“**Architecture** begins where engineering ends”

-Walter Gropius in Paul Heyer ed *Architects on Architecture*



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2

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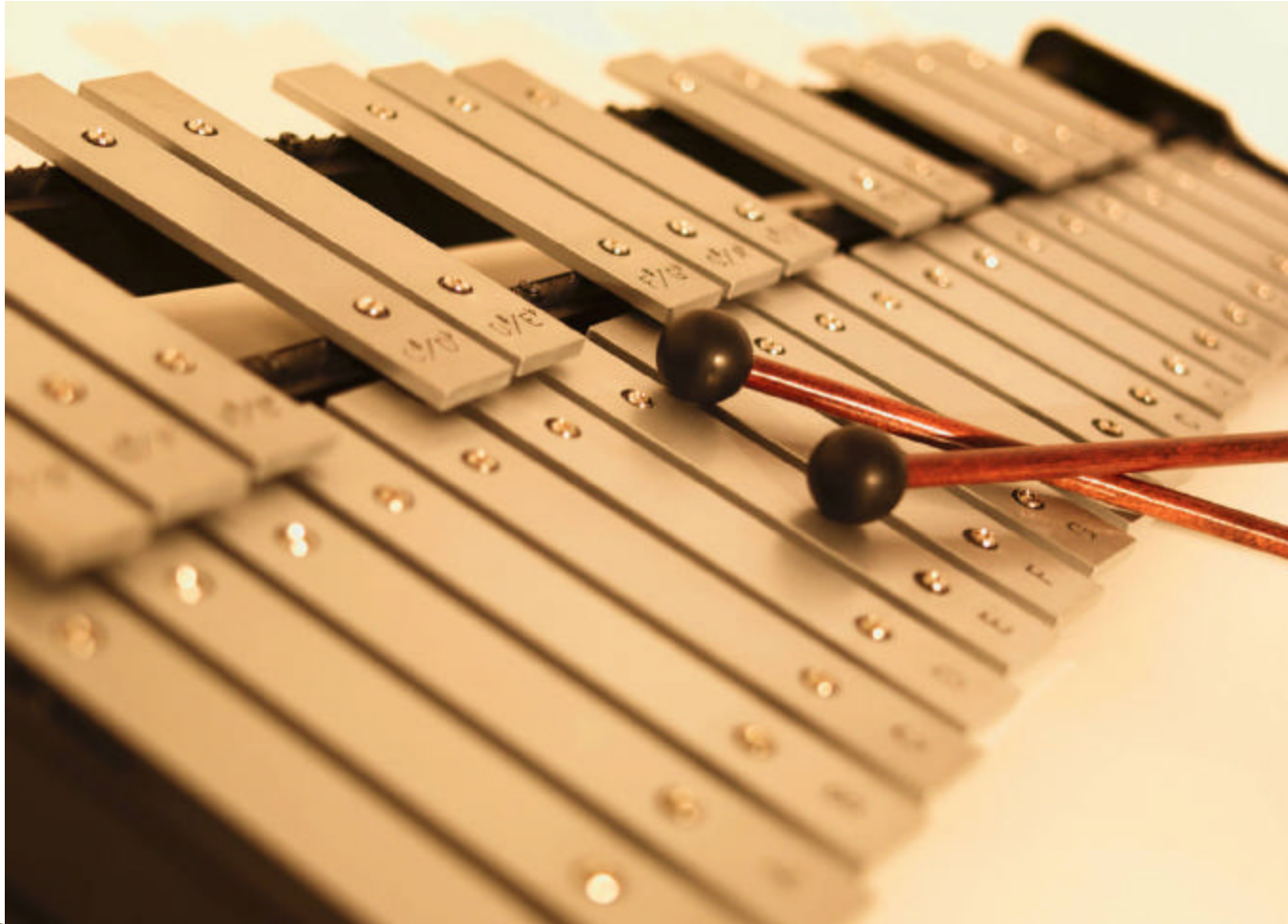
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Agenda

- ❑ Identity Management and the Boundaryless Enterprise
- ❑ Architecting Identity Management Solutions
- ❑ An Example
- ❑ Conclusions



Identity Management and the Boundaryless Enterprise



Identity Management and the Boundaryless Enterprise

- The Function of Identity Management
- Business Drivers
- Enterprise Requirements
- Practice and Policy



The Function of Identity Management in the Enterprise

- Identity information creation, modification and deletion:
 - by administrators
 - by users
- Identity information provision:
 - to users
 - to applications
 - to access control decision points.

Business Drivers for Identity Management

- ❑ Compliance with regulation
- ❑ Improved operational efficiency
- ❑ Improved security
- ❑ Improved Risk Management
- ❑ Improved customer experience
- ❑ Better marketing
- ❑ Reduced fraud
- ❑ Lower IT costs



Enterprise Identity Management Requirements

- ❑ Support for trust model
- ❑ Support for roles
- ❑ Support for e-clients
- ❑ Distribution
- ❑ Security
- ❑ Ease of management
- ❑ Ease of use
- ❑ Compliance with legislation
- ❑ Support for legacy systems
- ❑ Audit and reporting
- ❑ User self-service
- ❑ Policy-driven
- ❑ Support for individual identity management



Practice and Policy

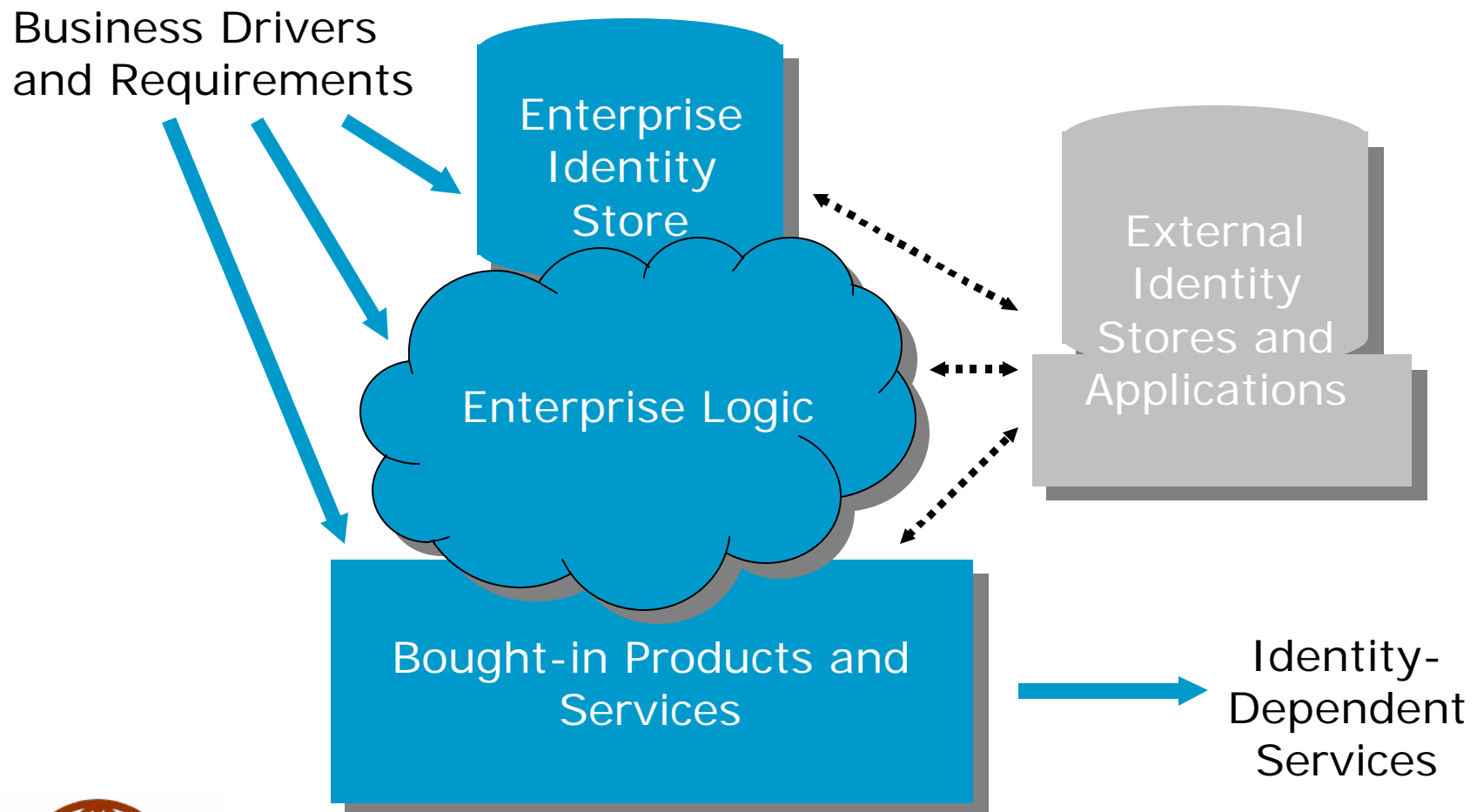
- Practice: “the way things are done”
 - Reduces decisions, saves time
- Policy: “the way things should be done”
 - Helps enterprise manage risk
 - Responds to regulatory requirements
 - Assists boundaryless operation
 - Contributes to customer relations, partner relations, employee relations
- Identity management
 - encapsulates practice
 - supports policy



Architecting Identity Management Solutions

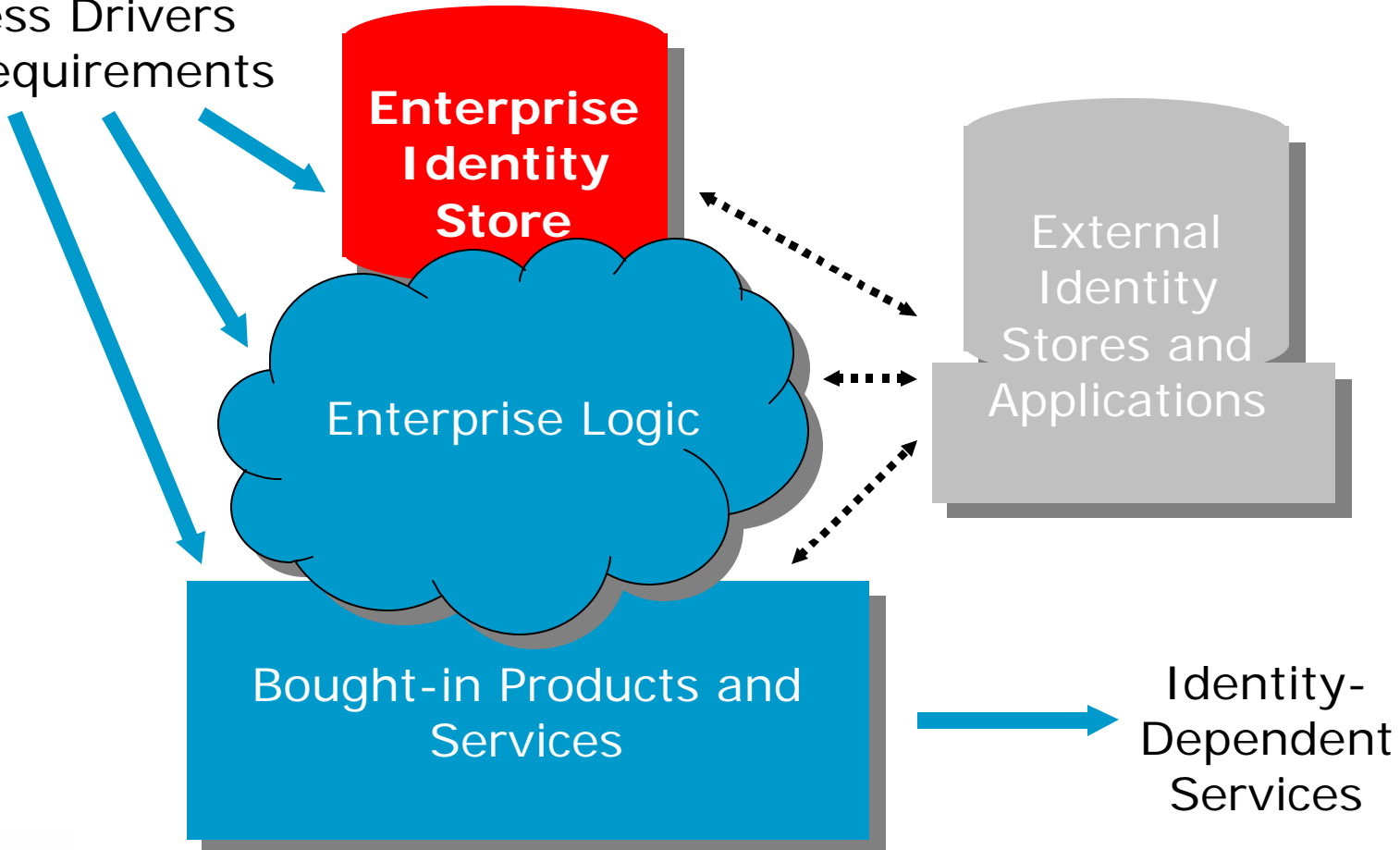


Designing Identity Management for the Enterprise



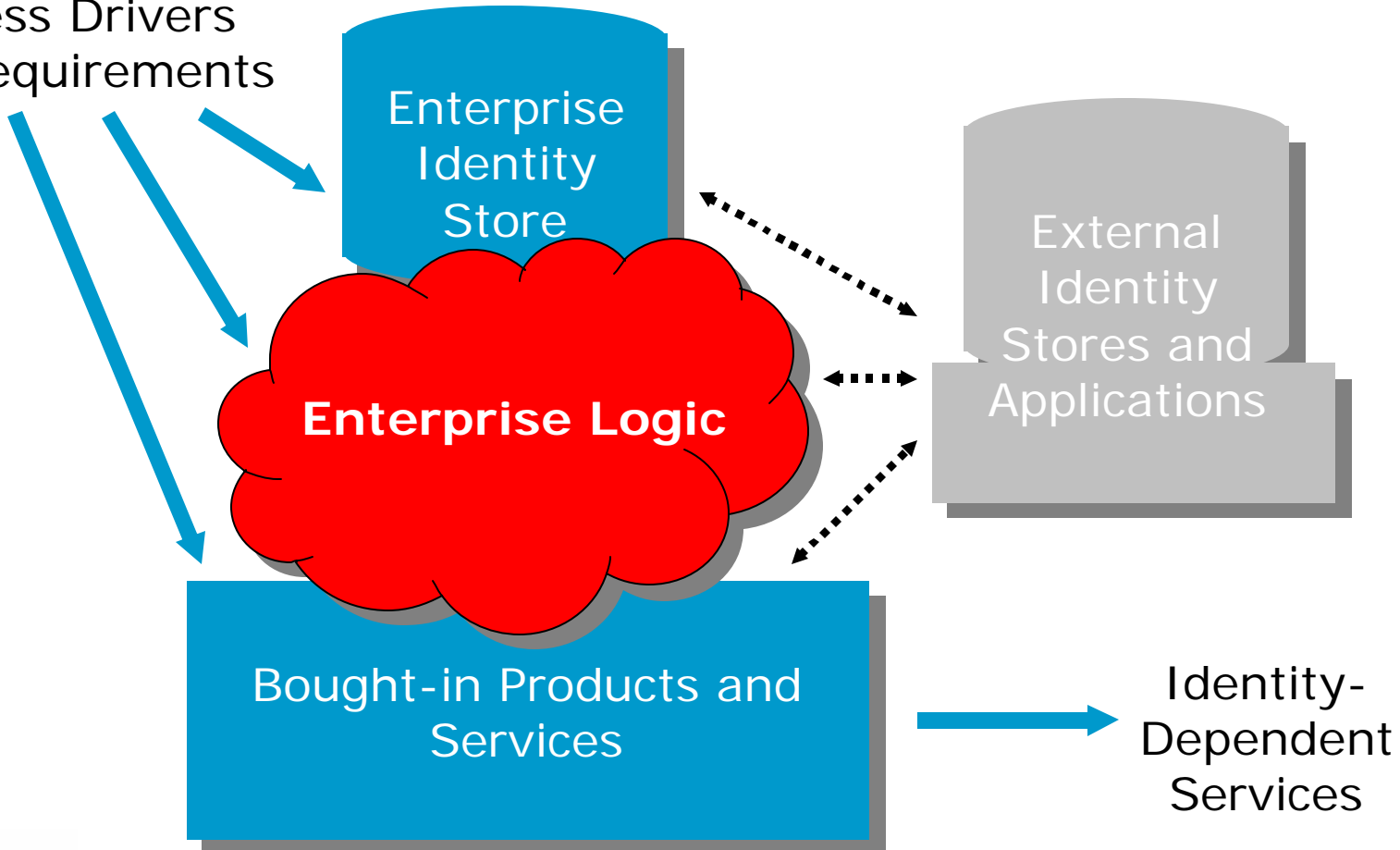
Enterprise Identity Store

Business Drivers
and Requirements

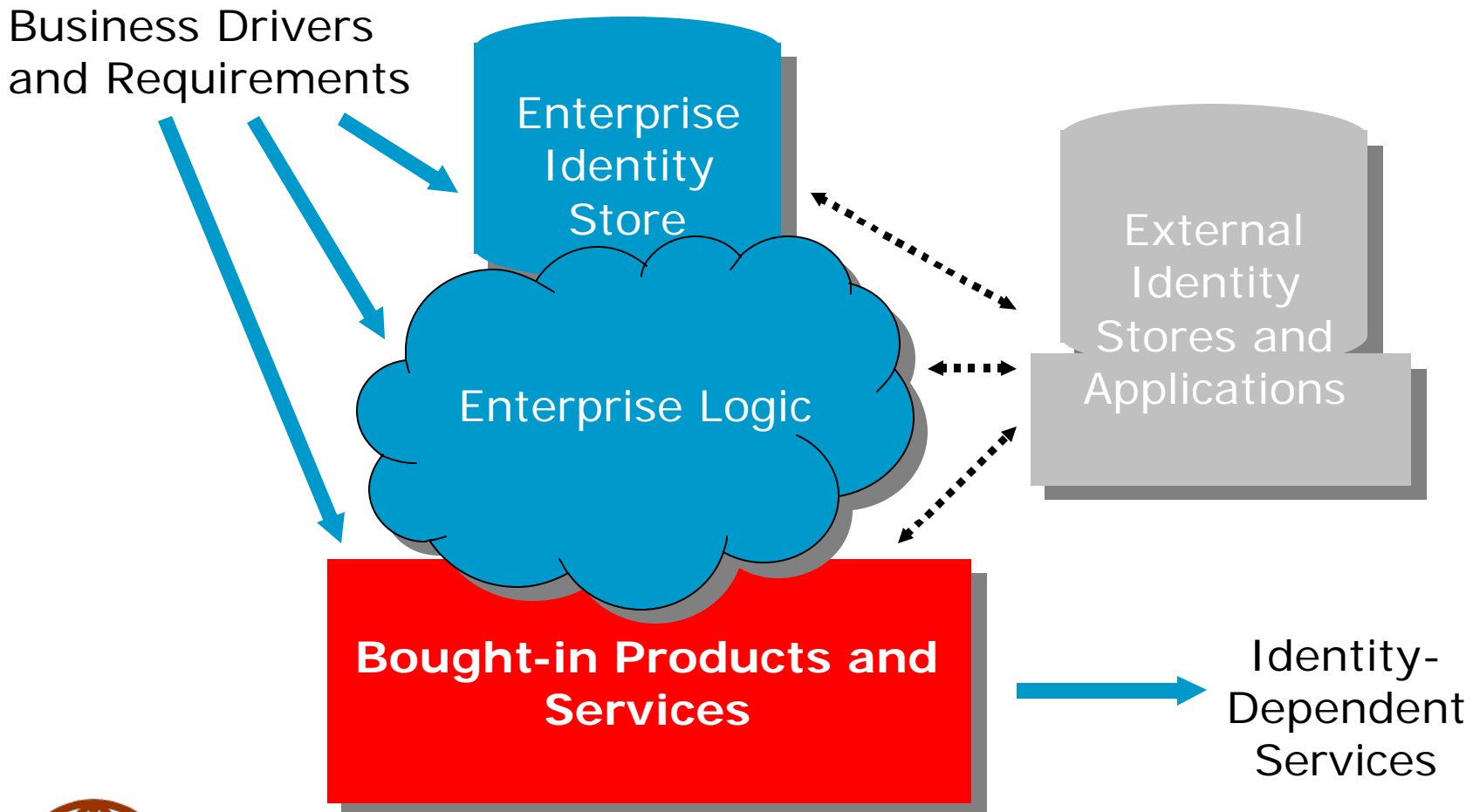


Enterprise Logic

Business Drivers
and Requirements



Bought-In Products and Services



Standards for Interoperability

- ❑ Directory
 - LDAP
 - X.500
 - DSML
- ❑ Application Interaction
 - SAML - enables trusted access to external identity information
 - XACML - access control
 - SPML - provisioning
- ❑ LDAP is mature and widely used - the preferred choice for directory access
- ❑ SAML (Liberty profiles) may become established



Examples

http://www.opengroup.org/cio/BIF_Models_V4.pdf



Examples

- ❑ Strategic Decision Support
- ❑ Retail Sales Boundarylessness
- ❑ Relationship-Based Retail Services
- ❑ Online Publishing
- ❑ **Supply Chain Automation**
- ❑ Interpersonal Interactions

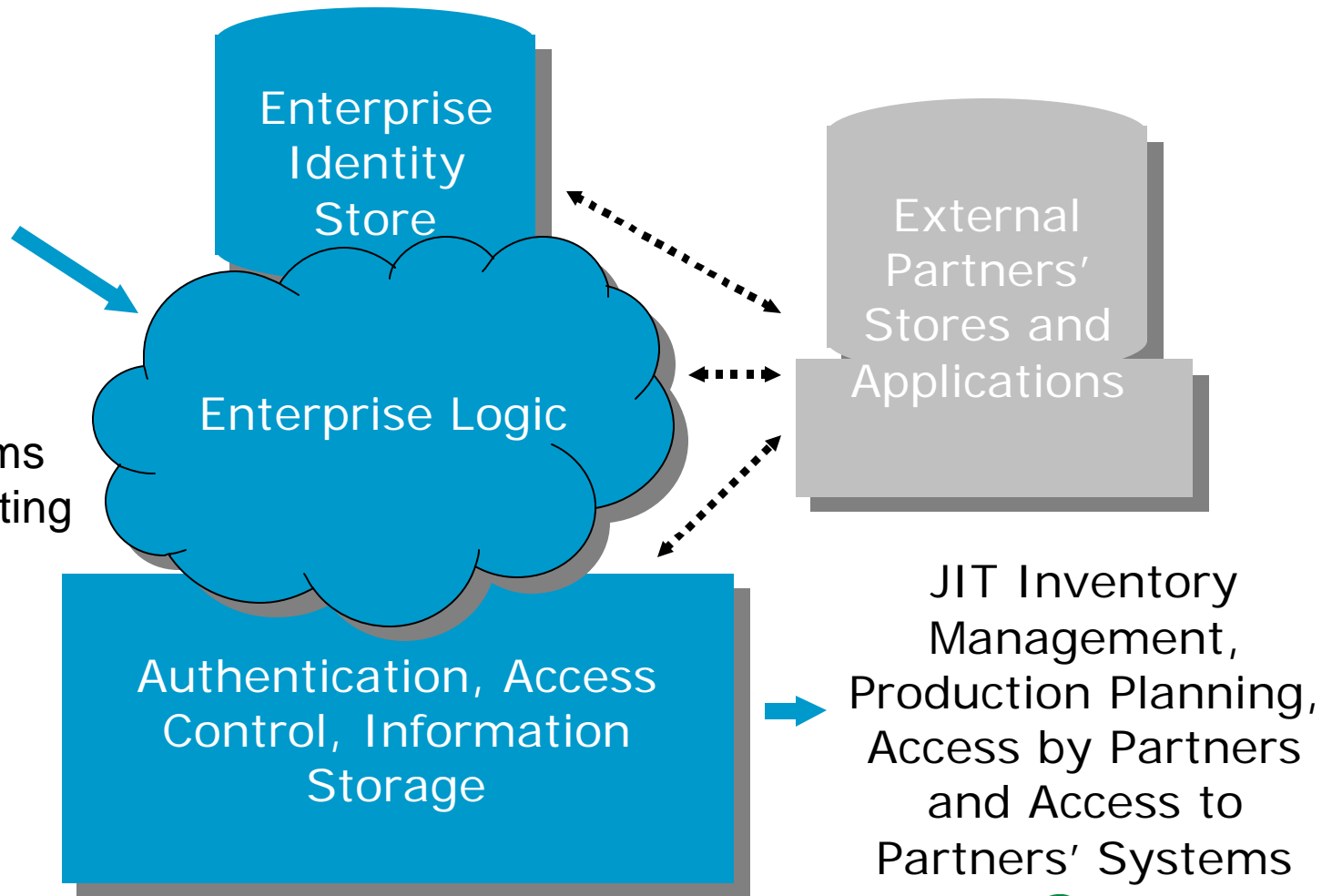
Supply Chain Management

- ❑ Information flow between a company and its suppliers and customers
- ❑ Key drivers: reduced costs, improved planning and scheduling
- ❑ Specific identity management requirements:
 - Comply with price-fixing legislation
 - Support for trust model
 - Support for roles
 - Ease of management
 - Ease of use
 - Support for Legacy Systems
 - Auditing and reporting



Identity Management for Supply Chain Management

Lower costs
Legislation
Trust Model
Security
Policy-driven
Roles
Manageability
Ease of use
Legacy systems
Audit & Reporting



Conclusions



Conclusions

- ❑ Identity Management enables personalized services in a boundaryless organization
- ❑ It is typically just a part, not the whole, of a business solution
- ❑ It is implemented using an identity store, bought-in products and services, and enterprise logic
- ❑ LDAP is currently the only reliable interoperability standard for identity management.



Boundaryless Directories for Boundaryless Information Flow

Thank you!



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22

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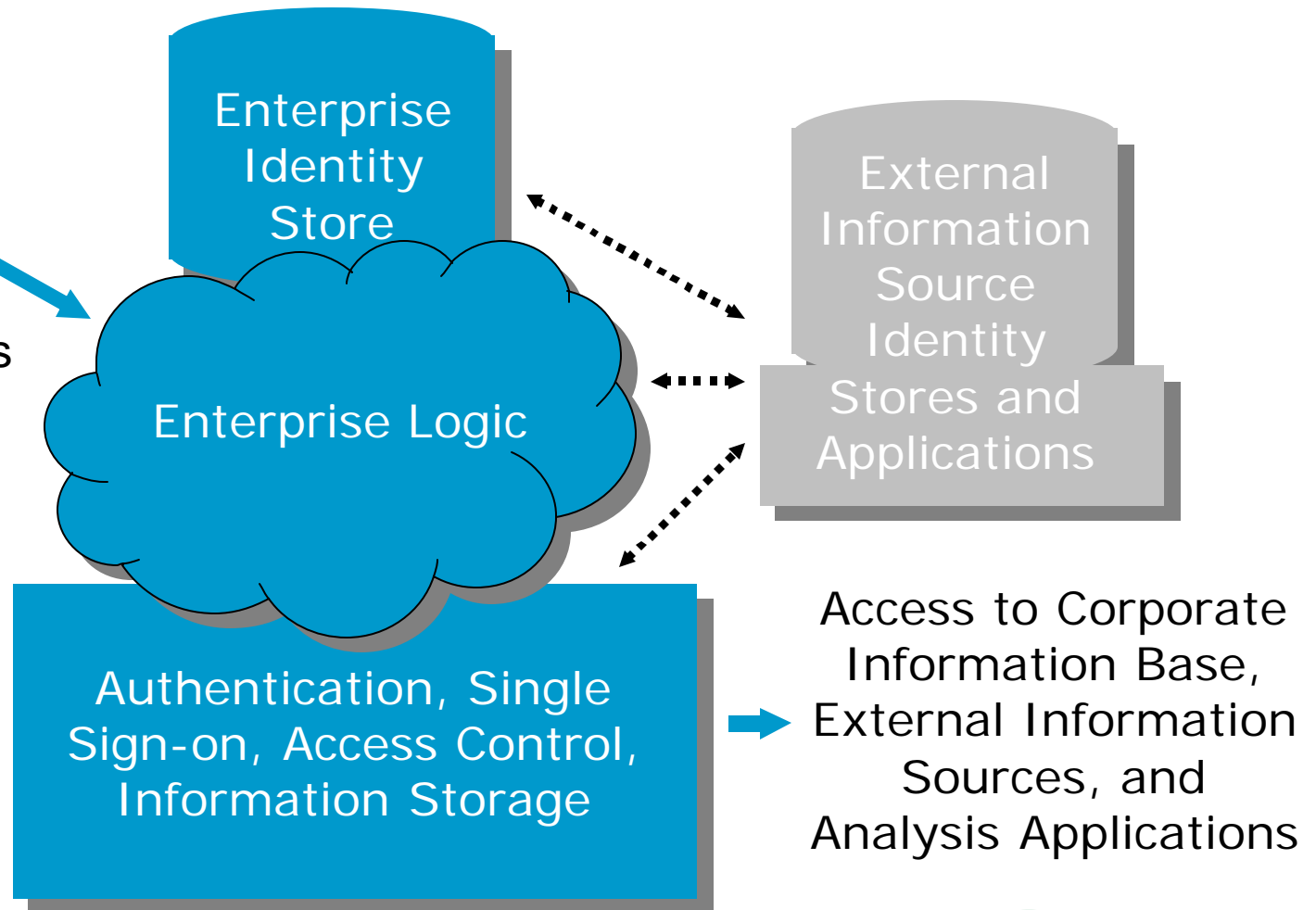
Strategic Decision Support

- ❑ Provide information to individuals involved in strategic planning
- ❑ Key drivers: improved attitudes and behaviors, better decisions
- ❑ Specific identity management requirements:
 - Support for roles
 - Support for access control
 - Security
 - Ease of management
 - Ease of use
 - Support for legacy systems (that hold historical information)



Identity Management for Strategic Decision Support

E-clients
Mobility
Roles
Security
Manageability
Ease of use
Legacy systems



Interpersonal Interactions

- ❑ International Identity Management Framework
- ❑ Key driver: to provide improved efficiency of society as a whole
- ❑ Specific identity management requirements:
 - Compliance with national legislation in each country
 - Support for roles/groups
 - Ease of management and user self-service
 - Security



Identity Management for Interpersonal Interactions

Operational
Efficiency

Legislation
Roles (groups)
Manageability
Self Service
Security

