

Project Mardi Gras



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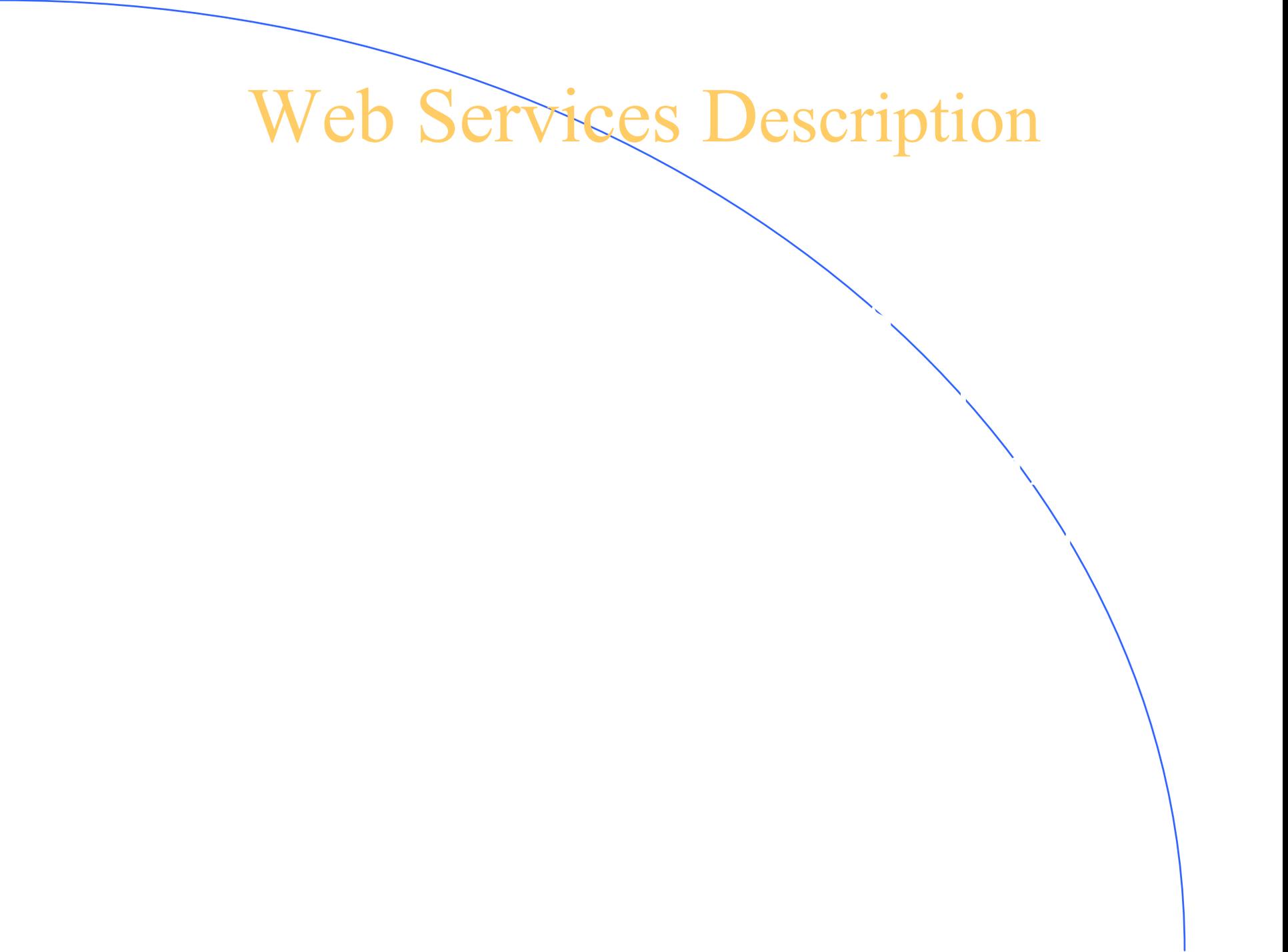


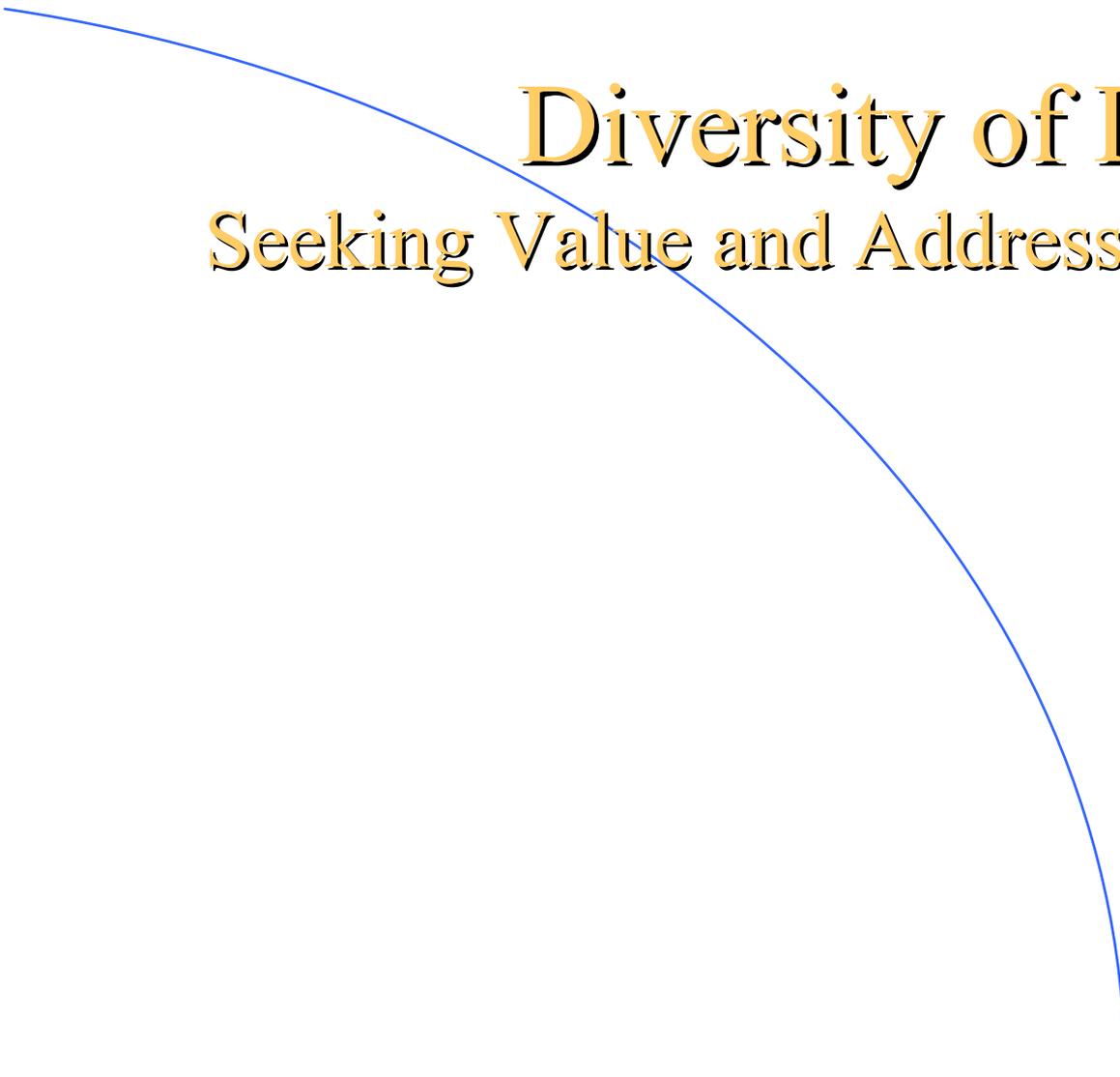
Our Goal

Path



Web Services Description





Diversity of Data

Seeking Value and Addressing Challenges

Introduction

- Vision of Mardi Gras
- Challenges and opportunities
- Determining value
- Challenges despite standardization
- Immunization registry example
 - Variety of data
- Return to value
- Diversity of data

Vision / Challenges

- Vision of Project Mardi Gras
- Challenge of HIPAA
- Closing in on healthcare's "last mile"



Determining Value

- Improve delivery of care
- Gain efficiency / speed
- Reduce cost

- Levels of deployment
 - Point-to-point through standard txn / protocol
 - Point-to-multipoint through standard txn / protocol across web service

Challenge – Despite Standardization

- HL7
- Developed in late 90's
- Now in Version 3.0 – XML on way
- Still requires definition prior to exchange

Immunization Registry

- Prototypical example
- MMIS component excluded from HIPAA txn using HL7 to exchange data
- Potential “future”

Variety of Data

Simply within a Registry

- Johnny goes to Dr. Smith to get his Varicella shot.

Variety of Data

Simply within a Registry

- - Birth record from vital records
- - Initial vaccinations from birth hospital
- - Vaccinations history from other state
- - Serological test results
- - Adverse reaction documentation
- - Contraindication documentation
- - CDC shot schedule
- - Vaccination recommendation
- - VIS transmittal

Diversity of Data

- Provider enrollment
- Recipient eligibility
- EPSDT screenings
- Financial transactions
- Drug rebate exchanges with manuf (NCPDP)
- Feeds to data warehouses and data marts
- Ties to public health (e.g. WIC)
- Exchanges across states, programs

Return to Value Proposition



- Mardi Gras
- Expose challenges
- Identify opportunities
- Set priority
- Take action

Web Services

Leveraging Existing Assets Using New Technology

Tim Dowd

Sun Microsystems – National Business

Development Manager, State & Local Government

Data Exchange – web service fundamentals

- The challenge.....
- What are web services?
- Enterprise centric focus is critical
- Some key elements
- The “web services” centric software stack
- Why are “web services” centric
Implementations important to the MMIS
community?

The Challenge.....

Do More....



With Less...



What are Web Services?

- Next generation of the Internet will be the provisioning of “web services” or “services on demand”
- Publishing an organization’s information assets (data, applications, reports, and transactions) to the web
- Services available to any web enabled device -- anytime, anywhere
- Available internally and externally subject to security - authentication and authorization

Enterprise Centric Focus is Key to Success

- Avoid e-commerce/e-Gov centric stovepipes
- Include in the enterprise all stakeholders:
 - customers, partners, employees, patients, providers, doctors, etc.
- Leverage the size and resources of the enterprise
- MITA
- Georgia - *Enterprise Portal / Interoperability Architecture Project*

Some Key Elements

- Network identity
 - Context sensitive identity
 - Attributes
 - Rights
 - Entitlements
 - All within policy based network framework
- Directory services - LDAP
- Goal is single sign-on

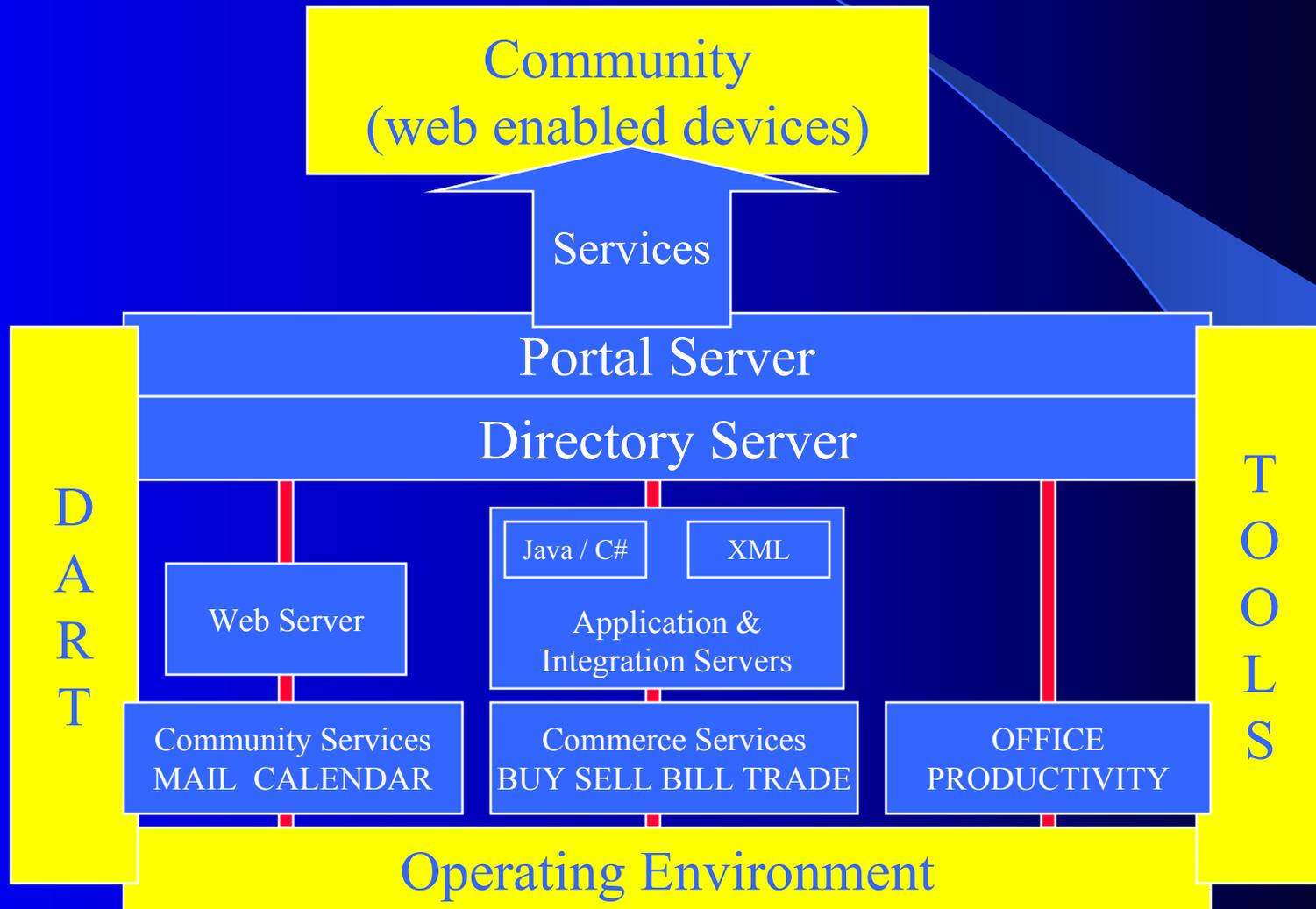
More Key Elements

- Portal server
- Web / application / integration server
- Operating environment
- Development environment / tools
- Commerce engine
- Enterprise authentication mechanism
- Secure key management/ 128K encryption

Why are “Web Services” Centric Implementations Important to the MMIS Community?

- Architected for the enterprise
- Scalable, secure, reliable
- Integratable - allows for best of breed introduction
- Provides flexibility for the future
- Leverages existing infrastructures
- Currently available - not a futures game

Web Services Centric Software Stack



Web Services

Applying them in the “Real World”

Mike Holdren

First Health Services – Vice President of
Information Technology

Real World Experiences

Before web services

- Bulletin boards
- U.S. Mail (paper, floppies, CD's)
- Costly electronic mailboxes
- 3270 screens - direct data entry and inquiry into payer Legacy systems
- Desktop applications - DOS, Windows, POS devices
- Fax

Real World Experiences

Disadvantages

- Delayed payment to provider
- Decreased accuracy
- Additional preparation, handling, and postage costs
- Small providers must purchase and maintain multiple systems
- Vendors must update many provider desktops
- More claim attachments due to form limitations

Real World Experiences

After Web Services

- Standard languages and protocols
- Security and encryption
- Open and industry standard interfaces
- Access to information from multiple sources without programming specific interactions
- Real time integration achieved from different systems
- Service oriented architecture

Real World Experiences

After Web Services

- Reduced A/R days for providers
- Reduced administrative expenses for payers
- No software for provider to purchase, load or update
- Centralized single or all-payer application(s)

Questions and Answers

