

Integrations, Orchestrations, Automations: Paving the Path for AI in Enterprise Architecture

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PRAIRIE DEV CON

WEB | DEV | CLOUD | AI



EXCELLENCE IN RECRUITMENT

What this talk is...

Integrations, Orchestrations, and Automations: Paving the Path for AI in Enterprise Architecture





What this talk is not...

How do we "Modernize Integration"?

Integration Solutions

Where is the complexity for such a simple problem?



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AI

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Events


Startup Battlefield

More

Hardware

University of Manitoba holds funeral for mainframe

9:45 AM PST • December 19, 2007

 Comment



How do we "Modernize Integration"?

You Don't.

You Modernize Everything Else.

How?

Outline

- ~~Introduction & The Problem~~
- Where We Started
- Where We Went
- Where We Are Going
- Conclusion & Takeaways

Takeaways

- Integration modernization is NOT a project
- Define "integration modernization" for your own environment
- Find data about integrations, don't create it
- Wrap technical capabilities with business capabilities
- Acknowledge risks, and capitalize on opportunities

Where We Started...

2022/23 -> SIS Modernization Effort

Integrations, Orchestrations, and Automations: Paving the Path for AI in Enterprise Architecture





Examine the environment...

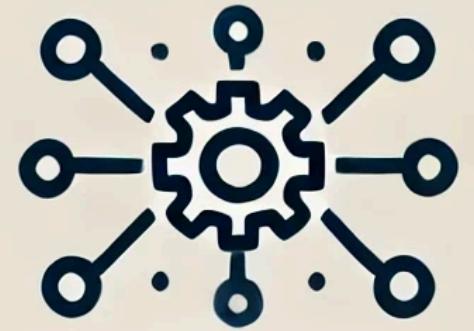
- ...in the industry
- ...in the enterprise
- ...in the development team

State of the Industry (Higher Education)

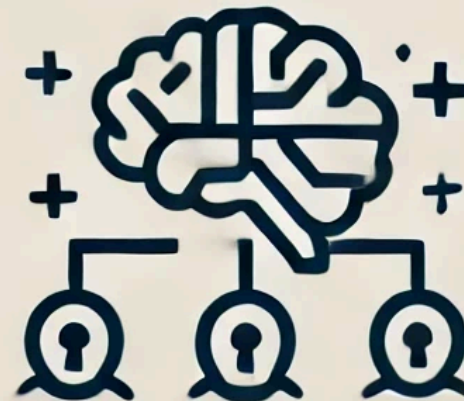
- Gartner Conversations & Hype Cycles
- "AI-Readiness" (opportunity)
- Information Security (opportunity)
- Citizen Developers (risk/opportunity)



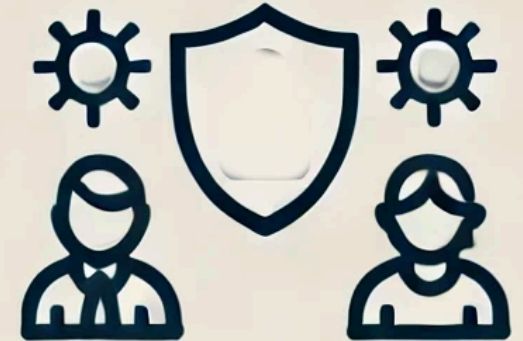
NEW PRODUCT



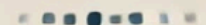
AI-READY



INFORMATION SECURITY



CITIZEN DEVELOPER



State of the Enterprise

- Data Governance & Data Analytics/Warehouse Effort
- Integration Strategy v1.0 from 2021 did not rollout as hoped
- Integrations treated separately from Data
- New tools introduced to empower Citizen Developers



State of the Development Team

- Data Copy/Sync Pattern used almost exclusively
- Lacked Experience in Modern Integration Development (a.k.a. Cloud-Native)
- Integration wasn't quite an Integration



What is "Integration Modernization" to UM?

- Change in expectation
- Change in definition
- Change in implementation
- **NOTE: This is bigger than an "SIS Modernization Project"**

The Revolution (What did we do?)

Defined (and Communicated) Standards

Integrations, Orchestrations, and Automations: Paving the Path for AI in Enterprise Architecture



IST Principles and Standards Book

Home

Architecture Principles

Architecture Decisions

Standards

Chapter 2 - Security

Chapter 3 - Technology

Chapter 4 - IT Operations

Chapter 5 - IST Administr...

Chapter 6 - Engagement ...

Chapter 7 - Vendor Mana...

Chapter 8 - Architecture

Chapter 9 - Patterns

Templates

Getting Started

Recycle bin

Edit

+ New

Page details

Analytics

IST Standards Book

This contains Principles and Standards that inform the work that Standards Book". the Standards Book in broken into 8 chapters:

- Governance
- Security
- Technology
- IT Operations
- IST Administration and HR
- Engagement Services
- Vendor Management
- Architecture

For general information on Principles and Standards, read [policy](#)

For questions about the IST Standards book or Standards in Ger

Principles and Standards

> Name

> Chapter : 1. Governance (4)

> Chapter : 3. Technology (36)

Integration Strategy

Q4 2021

Finding Pre-Existing Work



**University
of Manitoba** | Info
and

Inventory of the Integrations

	Ve...	Status	Orig...	Desti...	Integr...	Integration Type
ner)	12.0	In Production	Info Ed	Banner	Data	Automation
	9.0	In Production	VIP	Banner	Data	Orchestration / Workflow
	8.0	In Production	FAST	FAST	Data	Integration
	8.0	In Production	FAST	Banner	Data	Integration
	10.0	In Production	Banner	FAST	Data	Integration
	9.0	In Production	Banner	FAST	Data	Integration
ty product	10.0	In Production	Banner	FAST	Data	Reporting
ter)	10.0	In Production	SAP Ariba	Banner	Data	Integration
	10.0	In Production	SAP Ariba	Banner	Data	Integration
	9.0	In Production	Banner	SAP Ariba	Data	Integration
	8.0	In Production	Banner	SAP Ariba	Data	Integration
	8.0	In Production	SAP Ariba	Banner	Data	Integration
	9.0	In Production	Database	SAP Ariba	Data	Integration
	9.0	In Production	SAP Ariba	Banner	Data	Automation
	8.0	In Production	Concur	Banner	Data	Integration
	8.0	In Production	Concur	Banner	Data	Integration
	8.0	In Production	Banner	Concur	Data	Integration
	6.0	In Production	Core	Banner	Data	Integration

Challenging Our Assumptions

The Evolution (Where it's going)

Enabling Conversations about Opportunities

Data Governance v2.0 += Integration Strategy v2.0

New Risks become New Opportunity

Streamlining Business Capabilities by Reclassifying "Integrations" (as orchestrations, automations, and reports)

Takeaways

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Who am I?

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