IBM **Cloud Pak for Integration**

What's new in CP4I?

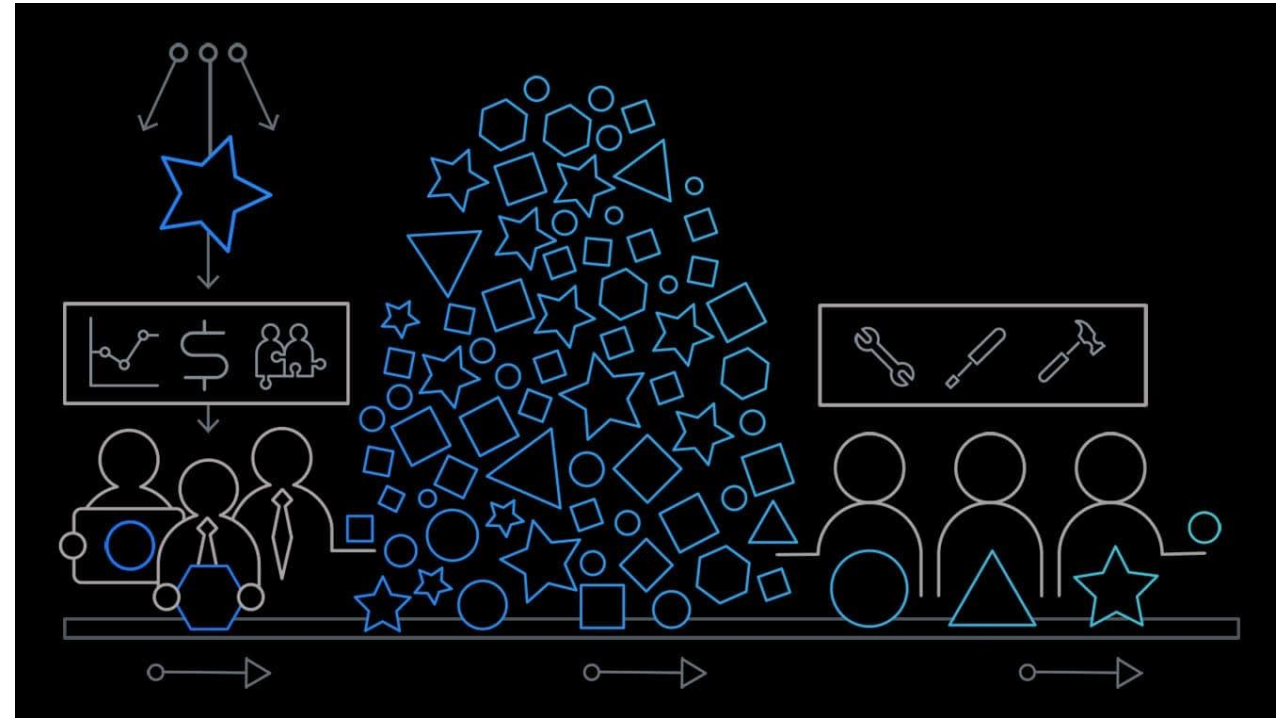Multi-style integration

Leif Davidsen and Andy Garratt

Integration Architectures are Changing

"Integration has become an obstacle to success because traditional, centralized and systematic integration approaches cannot cope with the volume and pace of business innovation."

Source: Gartner-Modernizing Integration Strategies and Infrastructure Primer for 2018

Webinar "A cloud native approach to agile integration" - Kim Clark
https://ibm.biz/agile-integration-cloud-native

| Integration portfolio is bloated | Specialist only dependency hinders scaling of delivery | Lack of interoperability and limited reuse |

Successful enterprises integrate faster and *better*
Intelligently automating every interaction

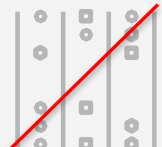Manual tasks requiring expert integration skills

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Automated integration lifecycle with AI, best-practices and built-in reuse to eliminate the skills barrier
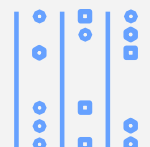
Lack of operational visibility to improve integrations

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Closed-loop integration lifecycle that uses real-world, company specific, operational data to identify issues and recommend best practices
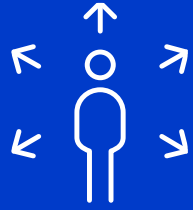
Traditional approach of using only one integration style

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Multi-style integration streamlines using different styles of integration together to deliver faster and better than a one-style-fits-all approach

IBM can help you automate your business with agile integration…

People & Process

- Decentralized ownership
- Empowering teams
- Agile methods

Architecture

- Fine-grained deployment
- API led
- Event-driven
- Microservices aligned

Technology

- Automation and AI
- Cloud-native infrastructure
- Essential integration capabilities working together
- Unified security, governance, and operations

IBM Automation platform
The most complete set of business and IT Automation services, powered by AI

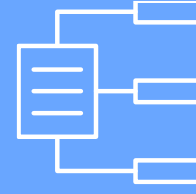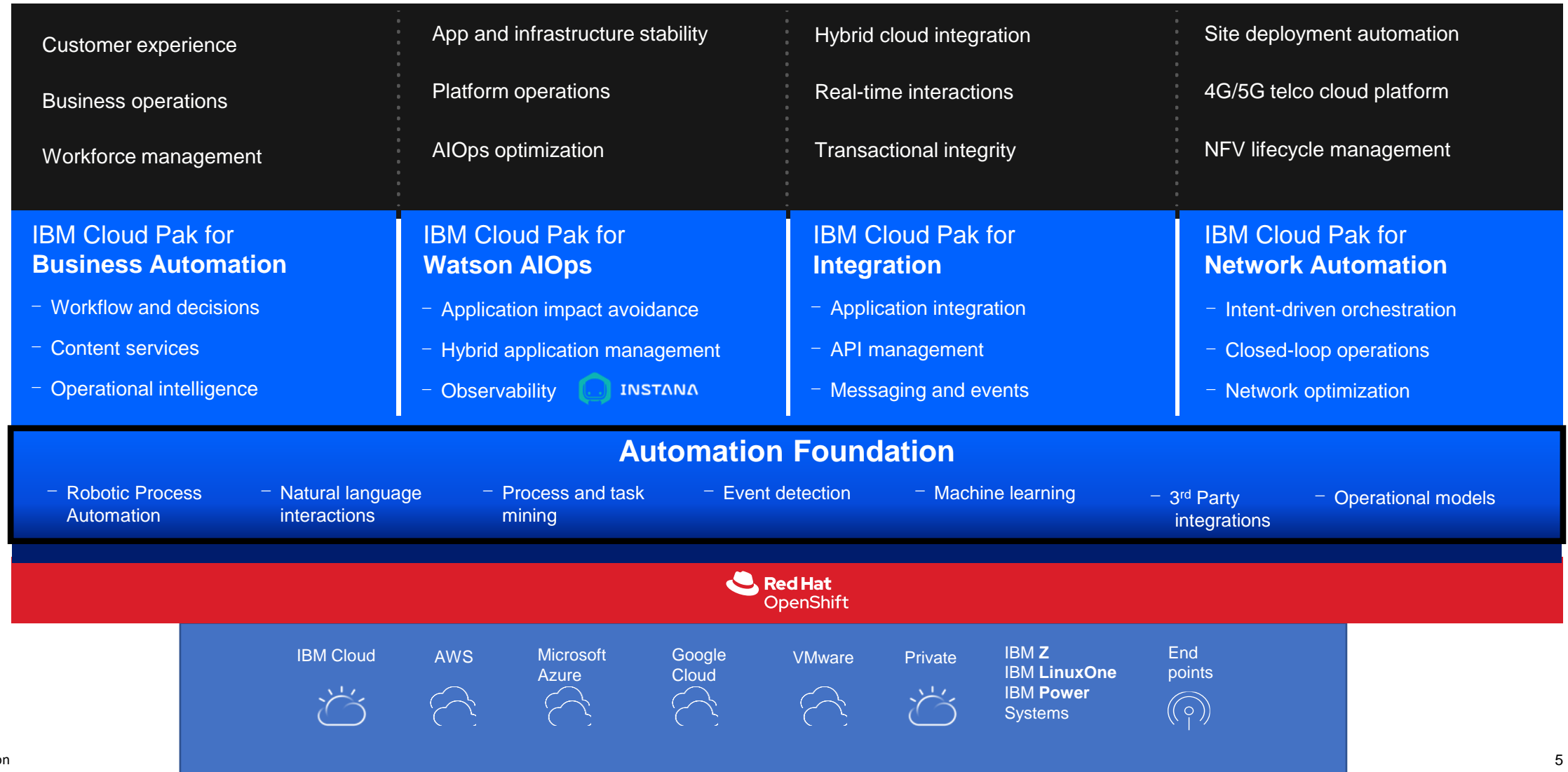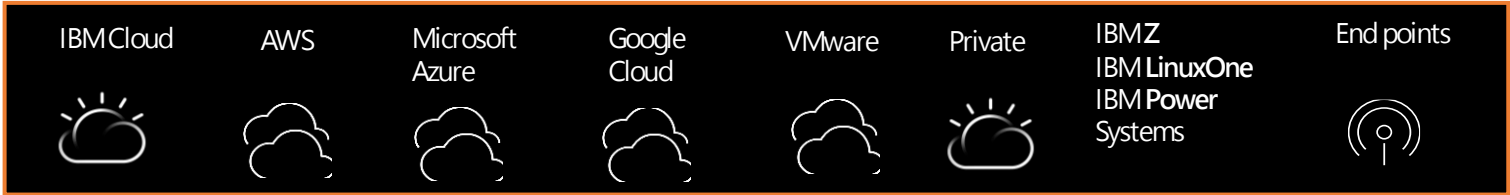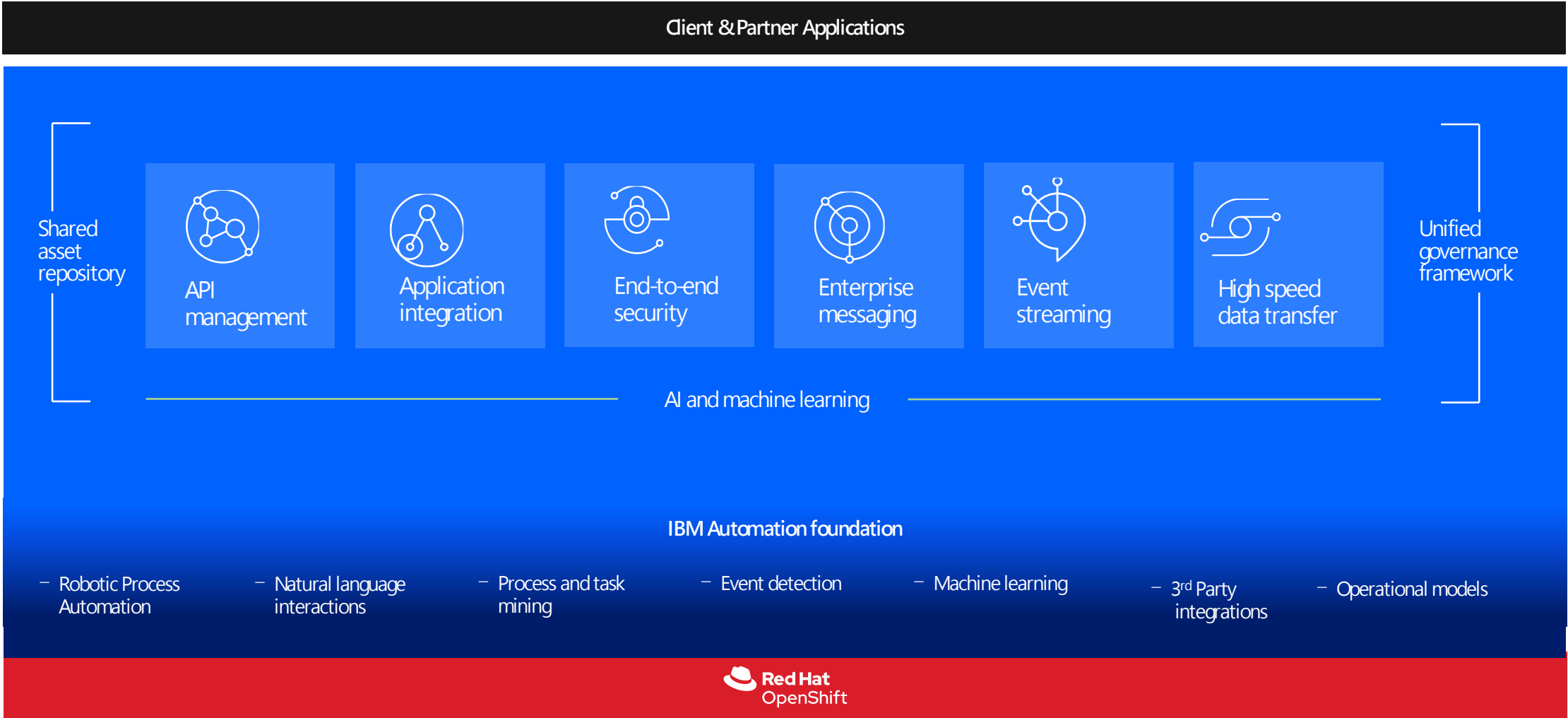|			
Customer experience	App and infrastructure stability	Hybrid cloud integration	Site deployment automation
Business operations	Platform operations	Real-time interactions	4G/5G telco cloud platform
Workforce management	AIOps optimization	Transactional integrity	NFV lifecycle management
IBM Cloud Pak for Business Automation	**IBM Cloud Pak for Watson AIOps**	**IBM Cloud Pak for Integration**	**IBM Cloud Pak for Network Automation**
− Workflow and decisions	− Application impact avoidance	− Application integration	− Intent-driven orchestration
− Content services	− Hybrid application management	− API management	− Closed-loop operations
− Operational intelligence	− Observability INSTANA	− Messaging and events	− Network optimization

Automation Foundation

− Robotic Process Automation	− Natural language interactions	− Process and task mining	− Event detection	− Machine learning	− 3rd Party integrations	− Operational models

Red Hat OpenShift

IBM Cloud	AWS	Microsoft Azure	Google Cloud	VMware	Private	IBM **Z** IBM **LinuxOne** IBM **Power** Systems	End points

IBM Cloud Pak for Integration

Client & Partner Applications

Shared asset repository

| API management | Application integration | End-to-end security | Enterprise messaging | Event streaming | High speed data transfer |

Unified governance framework

AI and machine learning

IBM Automation foundation

- Robotic Process Automation
- Natural language interactions
- Process and task mining
- Event detection
- Machine learning
- 3rd Party integrations
- Operational models

Red Hat OpenShift

| IBM Cloud | AWS | Microsoft Azure | Google Cloud | VMware | Private | IBM Z IBM LinuxOne IBM Power Systems | End points |

Innovation will increasingly occur here

Line of business professional

Interested in a specific business initiative.

Keen to automate repetitive tasks.

Line of business technical

Supports the business, always looking for tools to accelerate business initiatives.

Integration development is a part of their role.

Integration specialist

Builds complex integrations across a varied ecosystem.

Responsible for managing and securing data, enterprise-wide.

Application Developer

Builds applications that need to access data from across the organisation.

In first instance will look to write code rather than use a tool.

01
Drive new engagement models and digital transformation.

02
Speed integration while reducing costs

03
Reduce business risks and meet security and compliance requirements.

Create and Manage APIs to make core business functions available through new digital channels.

Accelerate delivery with a more agile integration architecture.

Secure your business while delivering new engaging services.

Respond to events in real-time to deliver more engaging customer experiences.

Build and deploy new, re-usable integrations in minutes.

Protect transaction integrity across networks and data sources.

Access data in a fast, secure and reusable way, wherever the data resides.

Reduce cost and increase reuse and interoperability with simplified operations.

Balance workload demands to optimise resiliency and scalability of critical backend systems.

Create and manage APIs
to enable digital business through new channels

Entry point:

> **Create and manage APIs** to enable digital business through new channels

Scenarios:

- – Enable a consistent experience across every channel
- – Support data needs of cloud-native applications deployed over multiple clouds
- – Form digital ecosystems to provide customer-centric solutions

Build APIs in minutes
with AI Automation

- Automated no-code model-driven approach
- Automatically generates OpenAPI and REST
- Leverage pre-built connectors with AI
- Single integrated API authoring experience combining multiple styles of integration

Capability: App Integration, API Management

API lifecycle management
with Closed Loop Automation

- Publish and manage secure APIs
- Manage APIs across multiple clouds
- AI powered automated API test generation using company's operational data
- Self-service, fully customizable API Developer Portal
- Governance and version control for APIs

Capability: API Management

Keep data in sync
across Multi-Style Integrations

- Sync data across multiple applications and systems no matter where they reside
- Retrieve data rapidly and securely for an engaging customer experience
- Use multiple integration styles together to optimize reads and writes from/to systems of records

Capability: App Integration, Messaging

DEMO