IBM **Cloud Pak for Integration**

What's new in CP4I?

Automated Integration Assembly

Leif Davidsen and Matu Agarwal

"Business executives are demanding a path to digital operational excellence.

The net result is tremendous pent-up demand for speed of automation and integration."

But going fast without the right approach, guided by real-world operational data, will only bet you to the **wrong place faster.**

70%

Of digital transformation projects fail due to **lack of integration quality.**

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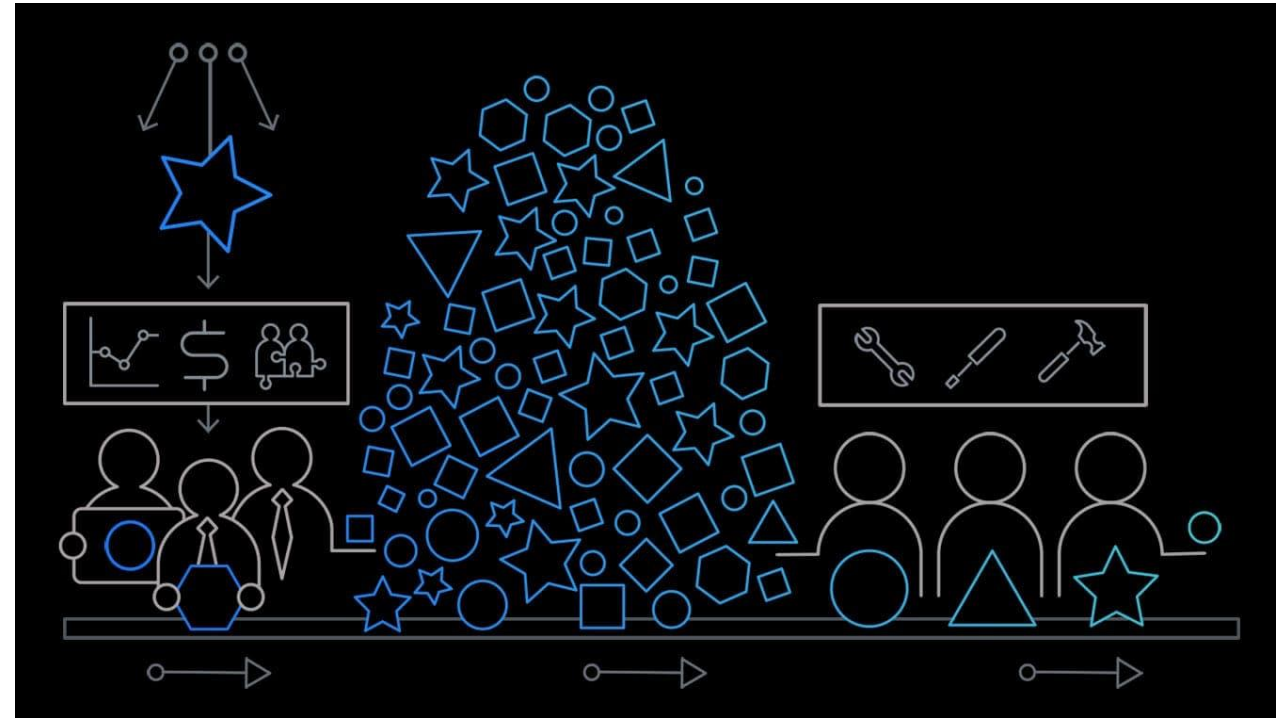
| Integration portfolio is bloated | Specialist only dependency hinders scaling of delivery | Lack of interoperability and limited reuse |

Successful enterprises integrate faster and *better*

Intelligently automating every interaction

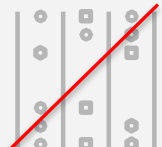Manual tasks requiring expert integration skills

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Automated integration lifecycle with AI, best-practices and built-in reuse to eliminate the skills barrier

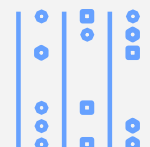Lack of operational visibility to improve integrations

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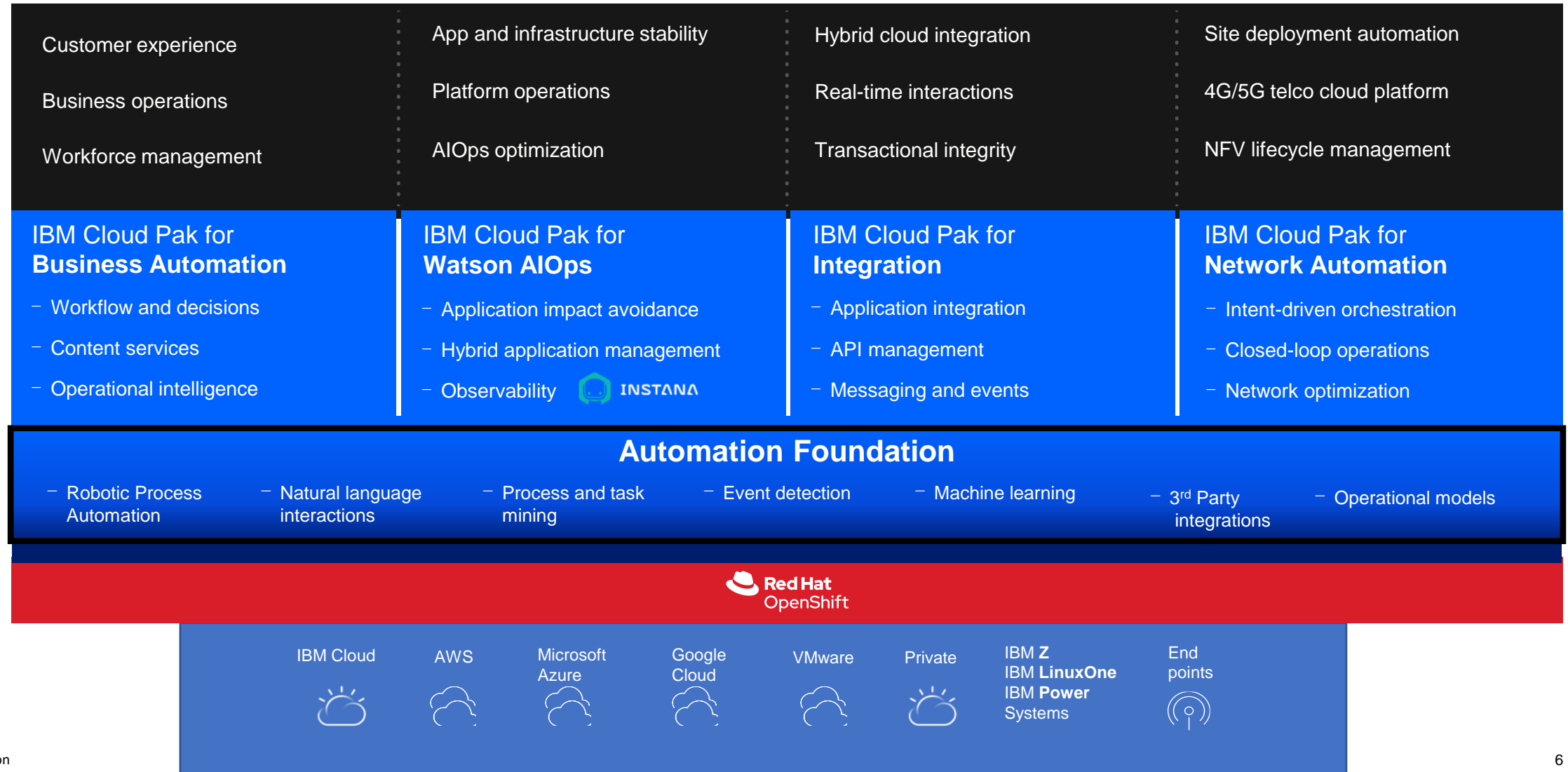
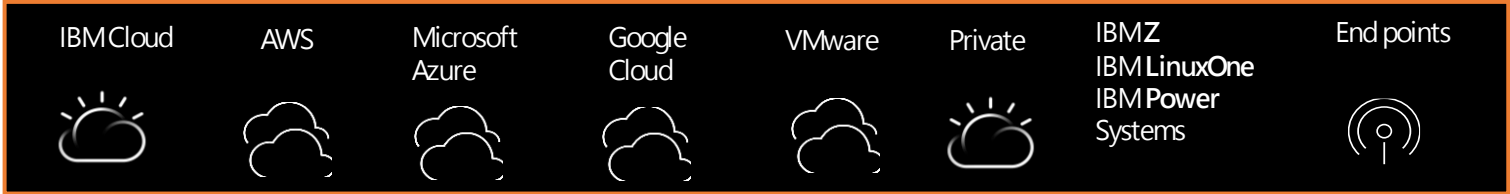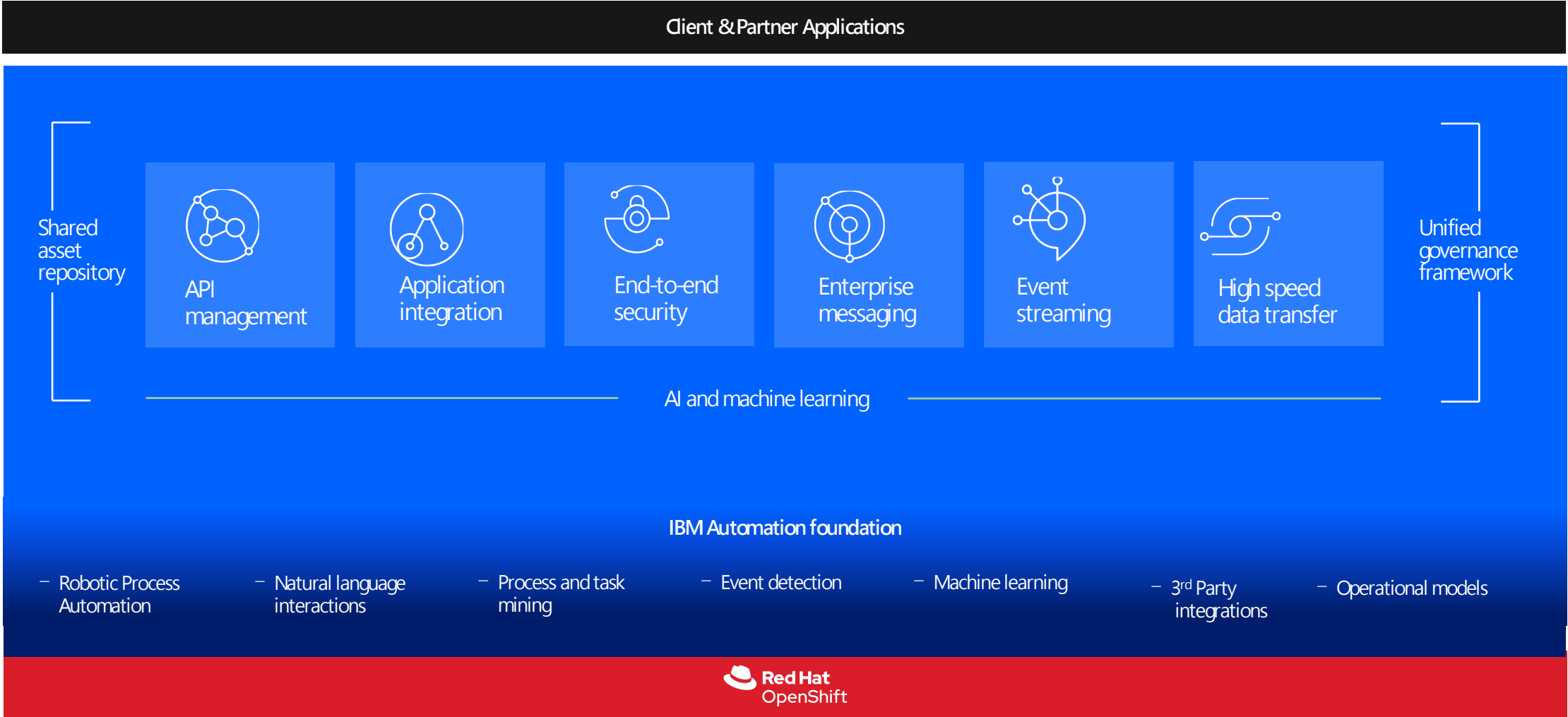Traditional approach of using only one integration style

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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 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

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.

Accelerate delivery with AI-powered integration

Deliver faster with a more agile integration architecture
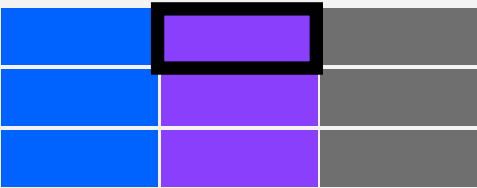
Entry point:

Scenarios:

Accelerate delivery with **AI-powered integration**

- Deploy and update integrations rapidly & seamlessly without impacting existing deployments
- Scale on demand with a robust infrastructure that automatically adjusts to transient peaks in real time
- Make integrations portable, simple to move to new environments & locations to meet capacity growth needs

Make changes quickly
with AI Automation

- Microservices architecture enables updating an integration without impacting other integrations
- AI automation recommends integration patterns, flow mapping and config changes
- Different teams can work on integrations independently - without bottlenecking on a centralized group or infrastructure

Agility through CI/CD
with Automation

- Automated deployment, scaling and self-healing
- Easy to build CI/CD pipeline for containerized integration solutions
- RedHat OpenShift includes streamlined CI/CD workflows helping teams get to production faster

Modern integration runtime
for Automation, Closed Loop & Multi-Style

- Fast, light & dependency free integration runtime
- Runtime supports containerization technologies and orchestration capabilities
- Cloud-first design to explore a deployment without the need to install local infrastructure

Capability: All Components

Designer
No code dev tooling

AI and Automation

Simplified integrated design experience to **Create an API in minutes,** pulling in policies and integration artifacts

Increase productivity, **reduce time to market,** with automated API test generation

Easily apply AI through a no code approach to **create intelligent business solutions**

Access to hundreds of pre-built connectors so integration users can focus more on business logic

User centric tooling enables users to start integration projects **with no coding and training**

AI-powered designer tooling

Democratize integration dev

Increase productivity, ROI

Multiple usability awards won
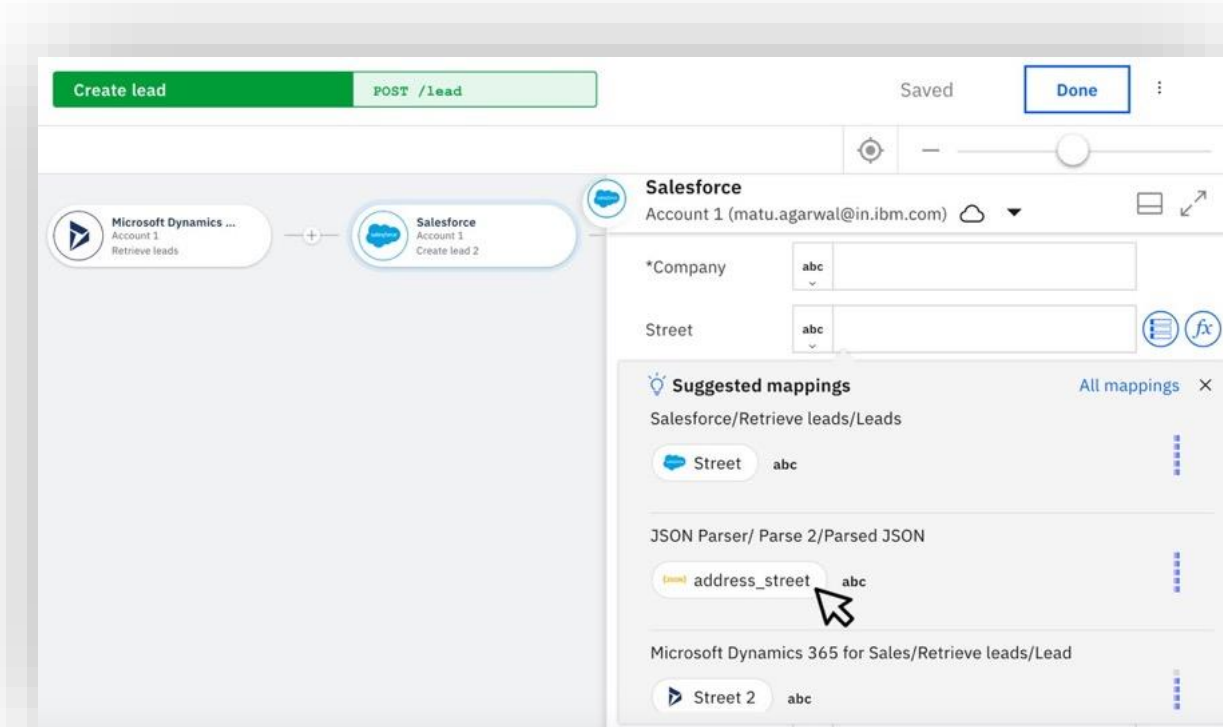
SPARK

iF DESIGN AWARD 2018

Mapping Assist

Greatly increase the productivity of your team with AI that simplifies the integration process

Ready to use - AI/ML algorithm is pre-trained to start working as soon as you do and continues to improve suggestions over time as it acquires behavioral knowledge from you

Comprehensive - Mapping Assist considers all applications in a flow when offering mapping suggestions, and not just the prior node in a flow

AI - Mapping Assist's algorithm can provide suggestions not just for flat structures, but also for nested complex objects, arrays, and custom objects

Private and secure - The AI model is deployed where your integrations run, IBM will never view or request to share any of your data

DEMO