

Business, rewritten by software™

# Delivering Innovation and Differentiation in the Application Economy

## CA Gen Developments in DevOps Workflows

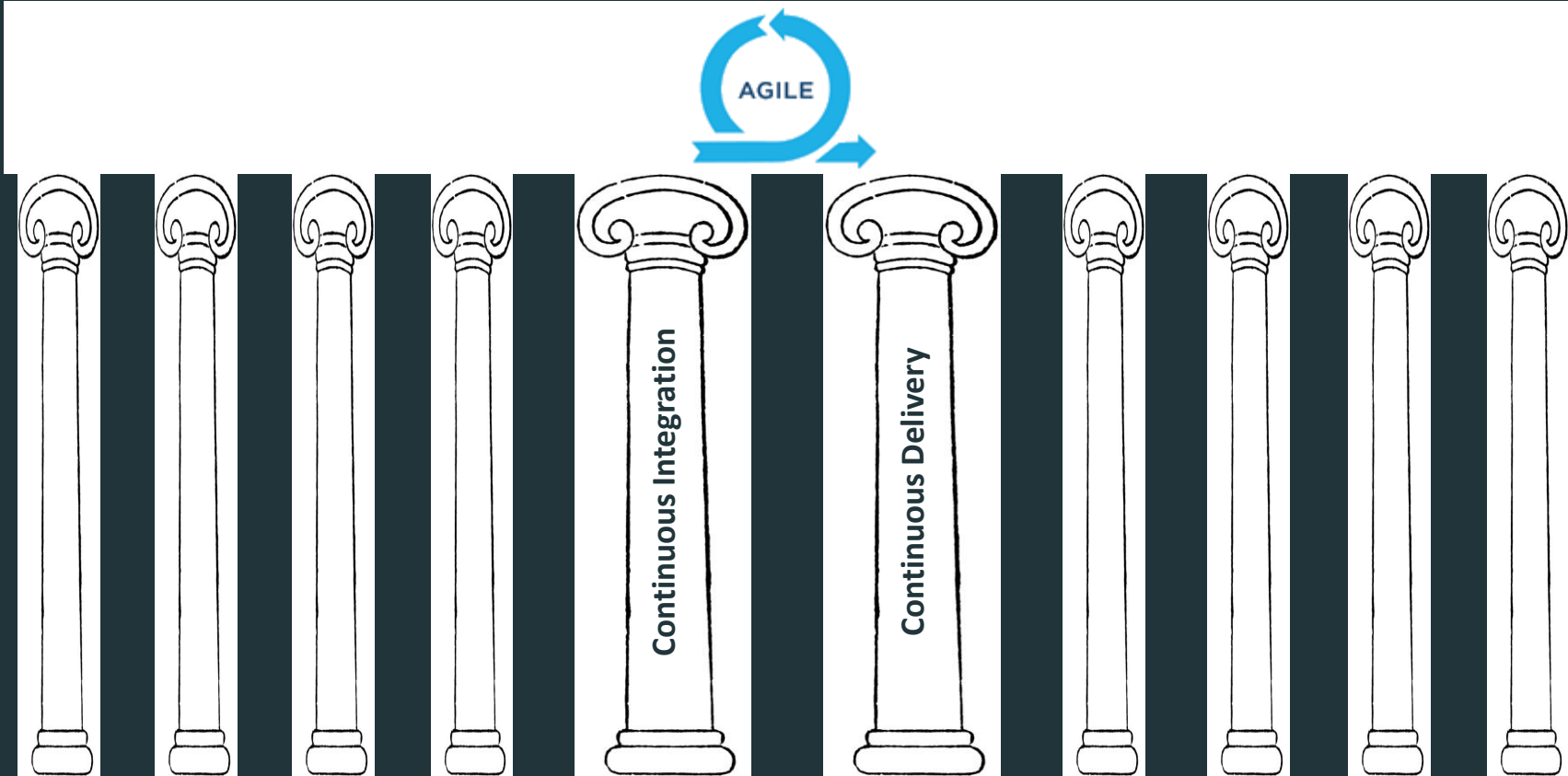
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*CA Technologies*



# *CA Gen in DevOps Workflows - Requirements -*

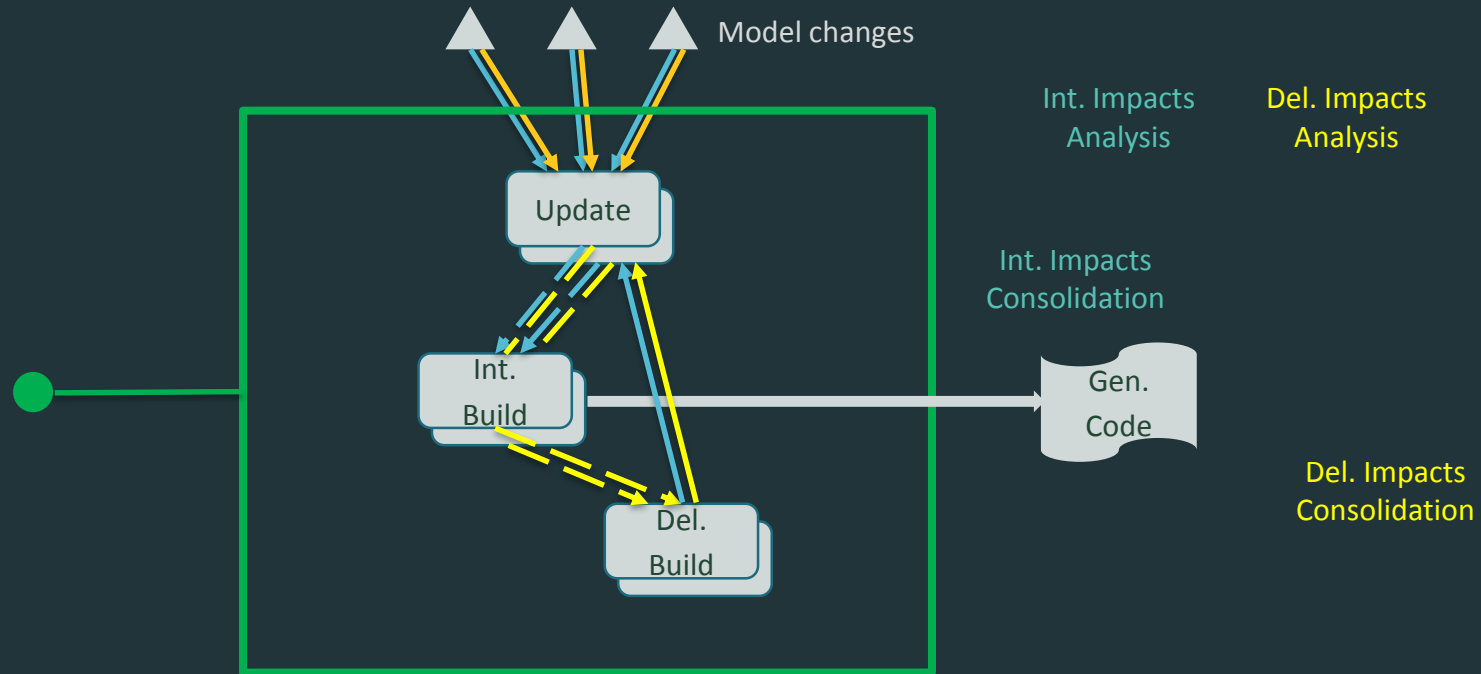
# Pillars of Agility



# Interoperability of CA Gen in DevOps Workflows Requirements

- Focus on CA Gen specifics
- Automated Impact Analyses
- Central construction facility
- Use of staging models
- Open API
- Flexibility to integrate into processes

# CA Gen CI/CD processor for DevOps



# CA Gen CI/CD processor for DevOps

## API Requirements

- Open API
  - Available as part of the solution
  - Using Industry Standards
- Access to CA Gen CI/CD artifacts
- Easy to integrate
  - Well-structured
- At the core of the solution

# CA Gen CI/CD processor – API overview

Web API Designer for CA Gen (v0.7.1.1) - CA Technologies, 2012-2015 - Model: CA GEN CID

## Web API Designer for CA Gen - Step 3: Resources Definition

Resources / Entities mapping

Resource	Entity	Path	Doc
Model	CID_MODEL	Models	
Build	BUILD	Builds	
Update	UPDATE	Updates	
IntegrationArtifact	INTEGRATION_ARTIFACT	IntegrationArtifacts	
DeliveryArtifact	DELIVERY_ARTIFACT	DeliveryArtifacts	

Element structure

Sub-Element	Resource	Relationship
model	Model	APPLIES_TO CID_MODEL
integrationArtifact	IntegrationArtifact	CONTAINS INTEGRATION_ARTIFACT
deliveryArtifacts	DeliveryArtifact	CONTAINS DELIVERY_ARTIFACT

Sub-Element	Resource	Card.

Attributes

Web API Attr.	Impl.	Entity	Attribute	Type	Impl.	Doc	Conv. Gen - Web API (\$\$ for Gen attr.)	Conv. Web API - Gen (\$\$ for Web API ...)
id	String	BUILD	{BUILD_NO, APPLIES_TC}	{Numeric(6, ...	{int, double}			
status	String	BUILD	STATUS	Text(1)	String		(\$\$.equals("I"))? "Integrated" : (\$\$.equals(	
comment	String	BUILD	COMMENT	Text(4094)	String			
		BUILD						

Services

Candidates Filter

Name Filter:  (RegExp)

☐ Include Action Blocks ☐ Save Filter

Service	in URL	Id in URL	Method	Doc	PStep / AB	Version
integrate	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PUT		SCID_INTEGRATE	
deliver	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PUT		SCID_DELIVER	
list	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GET		SCID_LIST_BUILDS	
integrationArtifacts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GET		SCID_LIST_INTEGRATION_ARTIFACTS	
deliveryArtifacts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GET		SCID_LIST_DELIVERY_ARTIFACTS	
create	<input type="checkbox"/>	<input type="checkbox"/>	POST		SCID_CREATE_BUILD	
get	<input type="checkbox"/>	<input type="checkbox"/>	GET		SCID_GET_BUILD	

Save

Previous

Global Settings

Error Handling

Resource Def

Service Def

Generation

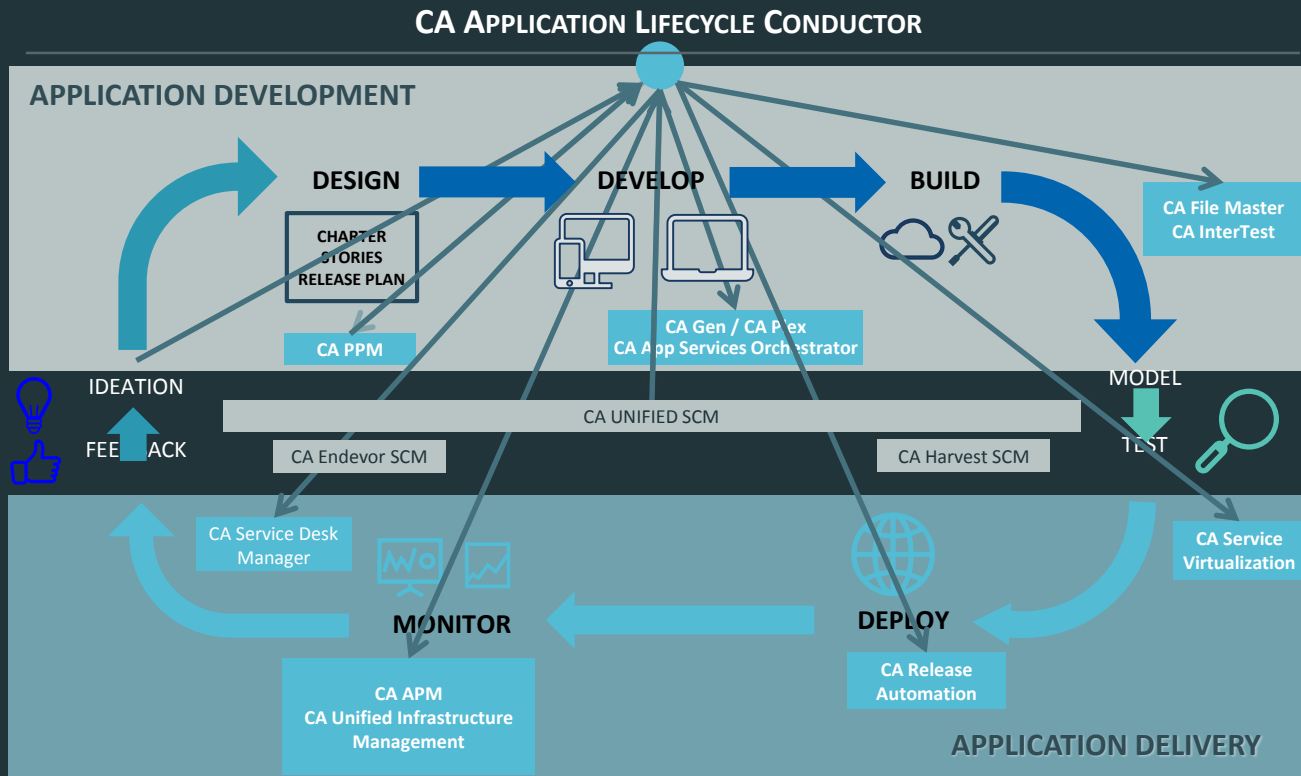
Next

# *DevOps Workflows with CA Application Lifecycle Conductor*

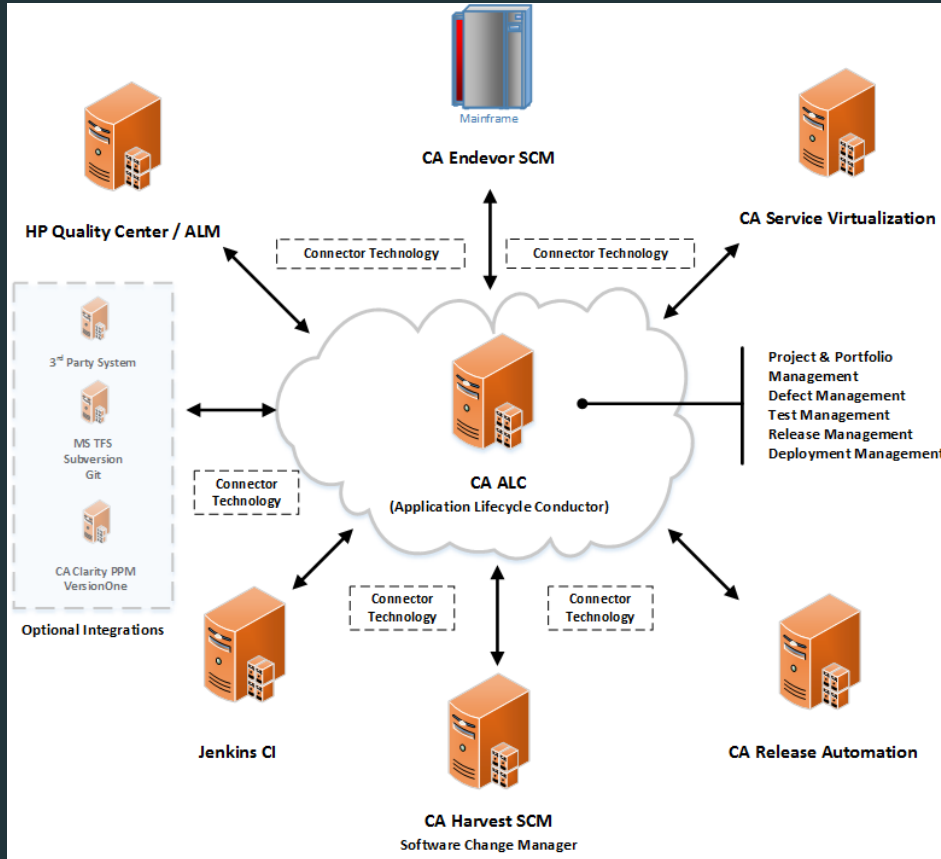


# CA Application Lifecycle Conductor

DevOps integration targets feature development, product delivery, quality testing, and maintenance releases in order to improve reliability and security and faster development and deployment cycles.



# CA Application Lifecycle Conductor Architecture



# CA Application Lifecycle Conductor – Interoperability Information Exchange

- Push / Pull
- From CA ALC, using APIs
  - Industry standard (SOAP, REST)
  - Specific
- From DevOps product
  - Using CA ALC REST API

# CA Application Lifecycle Conductor – Interoperability Notifications

- Polling
- Webhooks
  - Webhooks servers
    - CA Agile Central Webhook Server
    - Mainframe Webhook Server
    - ...
  - CA ALC Event Broker

# Demonstration



*Demo 1 – Integration*



*Demo 2 – Web API*



*Demo 3 – Behind the Scene*

