

**SAP Customer Experience** 

# Your Guide to Developing SAP Commerce Cloud Applications Locally

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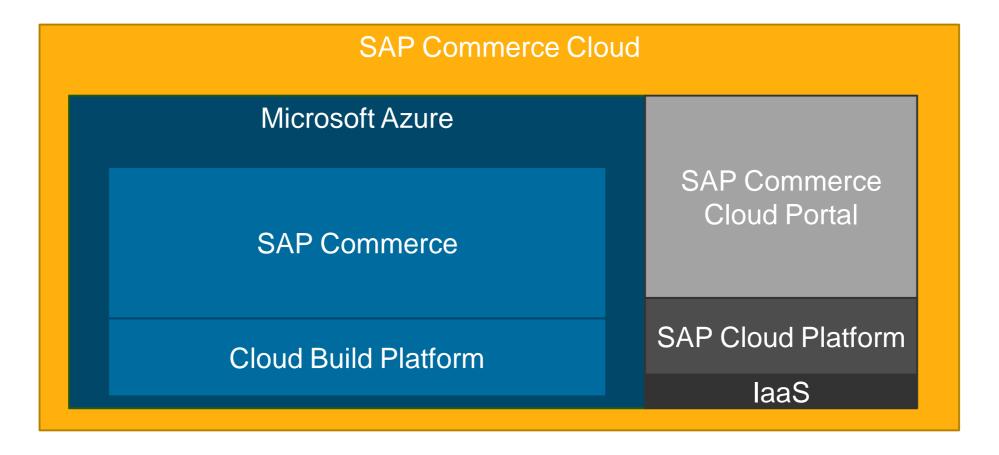


# **Agenda**

- SAP Commerce Cloud or SAP Hybris Commerce?
- -manifest.json / local.properties / localextensions.xml
- Cloud Platform Managed Properties
- Solr and Language Pack Customization
- -B2C / B2B
- Branching and Merging
- CI/CD
- Integrations
- Troubleshooting
- Roadmap

### **SAP Commerce Cloud or SAP Hybris Commerce?**

# It's Both!



# Local Development



# SAP Commerce Cloud Deployment

Tool to automate creation of Manifest.json from local files being worked on



Manifest.json

#### **Cloud Platform Managed Properties**

Not all properties set will be kept

Some properties are overridden by the Cloud Platform during deployment

#### Example:

Functional Area	Properties
Database connection	db.url
	db.driver
	db.username
	db.password db.tableprefix - (defaults)

# Handling release numbering in manifest.json

Using 6.7?

```
{
    "commerceSuiteVersion": "6.7.0.1",
    "extensions": [
    ...
}
```

Using 18XX?

```
{
    "commerceSuiteVersion": "18.08.1",
    "extensions": [
    ...
}
```

### **Language Pack Configuration**

Create "\_LANGUAGES\_" folder in source

Add your language pack zip files to this folder

Add the following in your Manifest.json with the languages you have:

# **Solr Configuration**

Create "\_SOLR\_" folder in source

Add any files you want to override

For solrconfig.xml you will need to denote the node (e.g. master-solrconfig.xml, slave-solrconfig.xml)

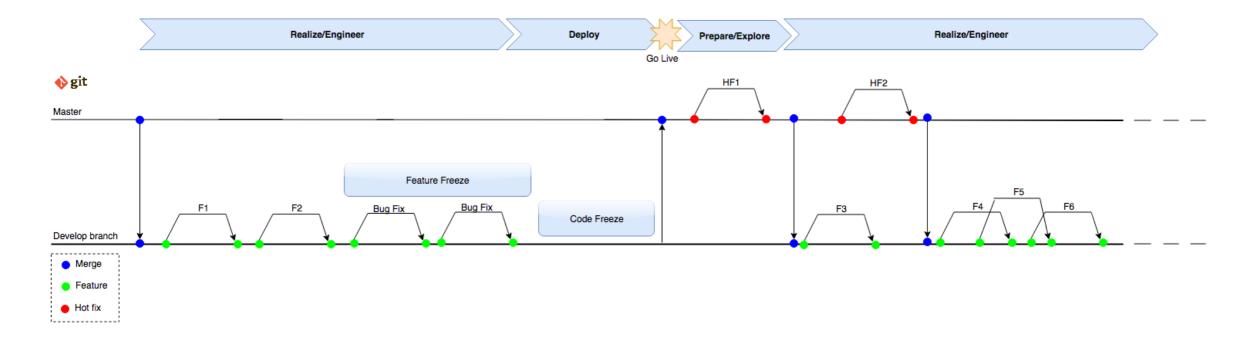
WARNING: Be <u>very</u> careful as you could break your search if you deploy incorrect files. Open a ticket to get the right templates

#### **B2C/B2B**

- Separate code bases: B2C and B2B are running on individual code bases, individual subscriptions, individual manifest files, etc. Requires maintaining 2 separate code bases
- 2. Shared common code, different repo: B2C and B2B are sharing common code base (git submodule) but they have different repos. Maintain different manifest files and non-common code. Deploy as separate application
- 3. Same code base: B2C and B2B are sharing code base and subscription. Just be aware that the shared subscription (and database, infrastructure, blob storage, and etc.) implies that the customer's stores have to share the same resources. One of the stores has to use a subdomain.

### **Branching and Merging**

- 1 code repository per Commerce Cloud subscription
- Multiple environments
- Branch and Merge is necessary



#### CI/CD

SAP Commerce Cloud focuses on providing the building blocks of a release pipeline, such as creation of build artifacts, creation of environments and processes to deploy builds to environments.

#### Per commit builds

 Where per-commit builds are required on a project, the recommended approach is to combine SAP Commerce Cloud with a build system—such as Jenkins—that supports this feature

#### Automated Regression Tests

 To support the use case of automated regression tests leading to the promotion of builds between environments, the recommended approach is to use an external test suite regression test suite and use this to call the Cloud Portal to promote a build to an environment

#### CI/CD

#### Build Frequency

- Can build through Cloud portal as often as you want. Typically we see:
  - Project Setup 2-3 builds a day
  - Project Delivery 1 per evening to enable quality assurance on the latest features
  - Project Testing Every 2-3 days

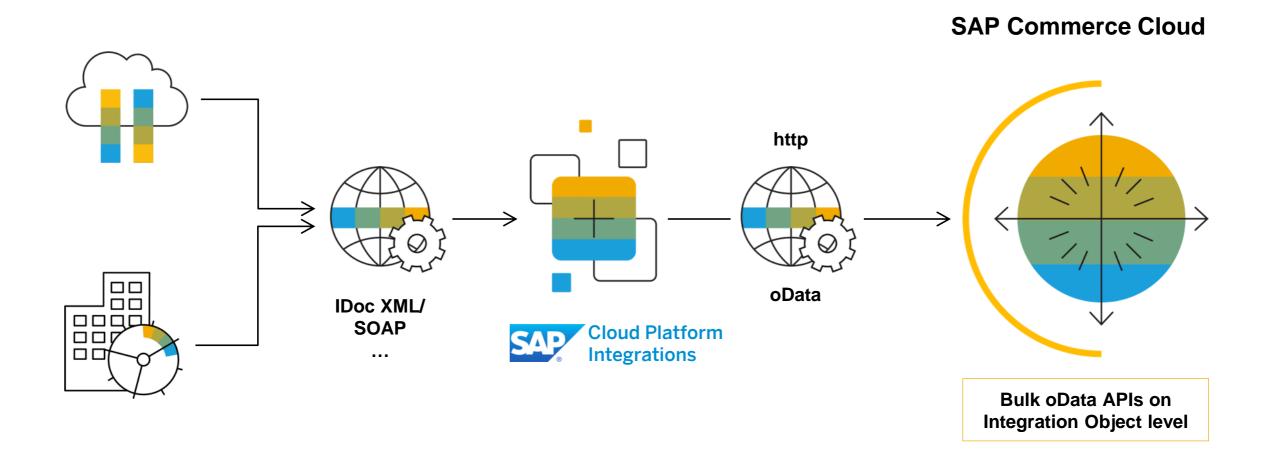
#### Initialization and Updates

Initialization and update processes must be triggered from the Cloud Portal as part of a deployment

# **Integrations**

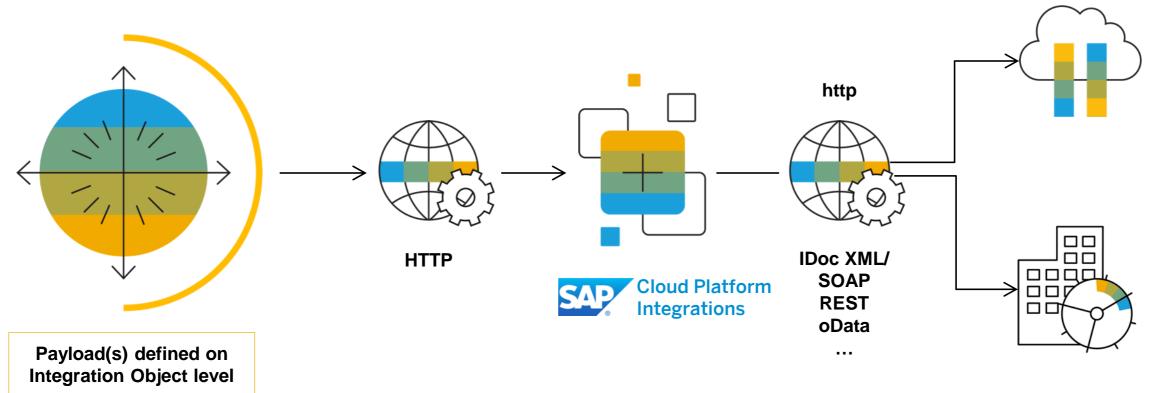
- 1. Cloud Hot Folders
- 2. SAP Cloud Platform Integration
- 3. SAP Commerce, Data Hub (coming soon)
- 4. Customization

# SAP CPI - Integration based on Integration Object Level APIs (Inbound) **Process View**

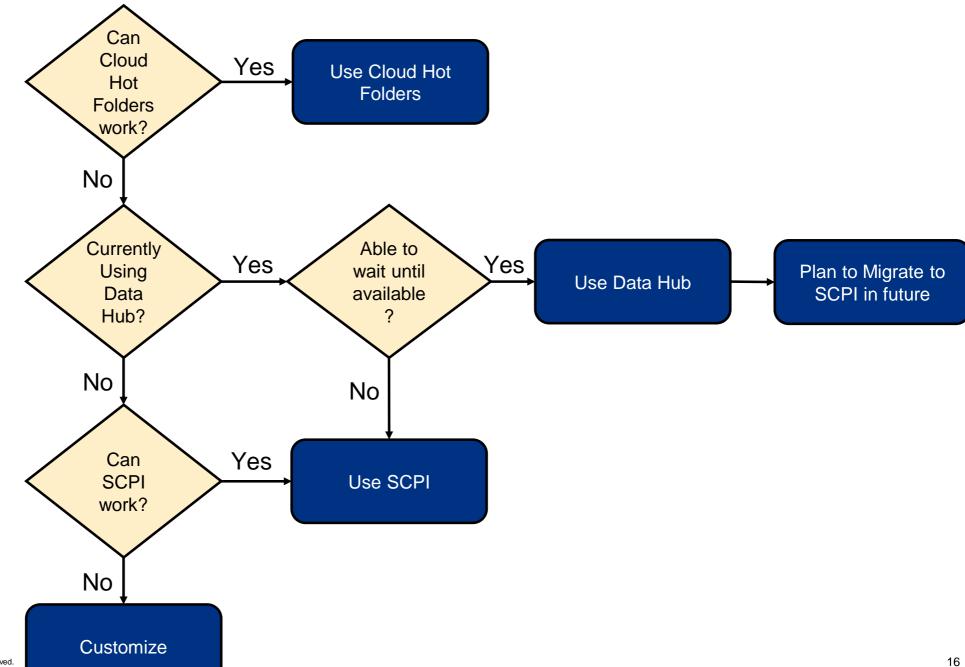


# SAP CPI - Integration based on Integration Object Level APIs (Outbound) **Process View**

#### **SAP Commerce Cloud**

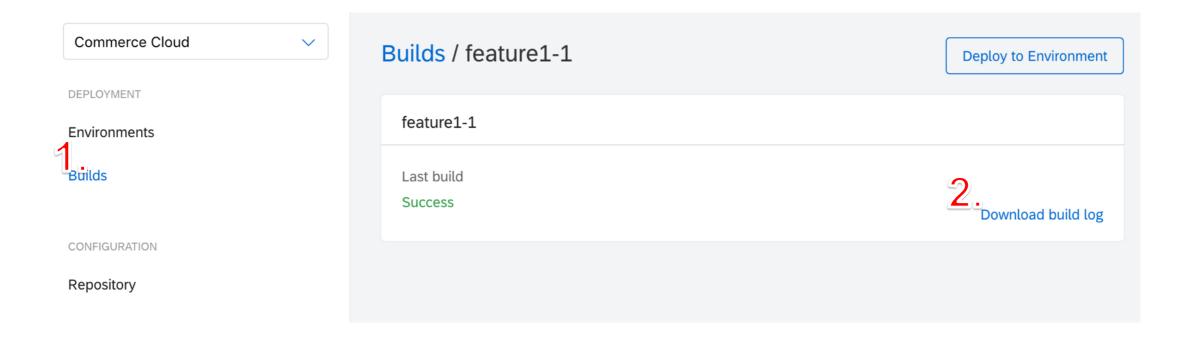


# **Integrations**



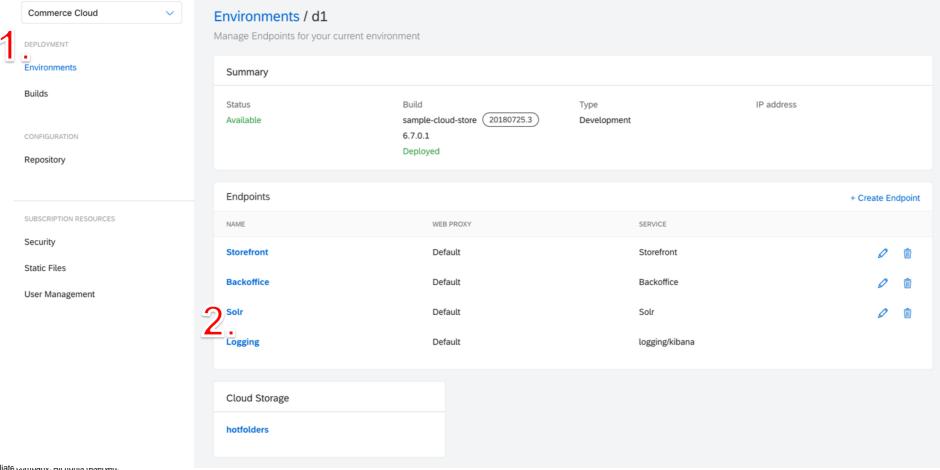
### **Troubleshooting – Build Issues**

In Cloud Portal click the "download build log" button for the build you want to review



# **Troubleshooting – Centralized Logs**

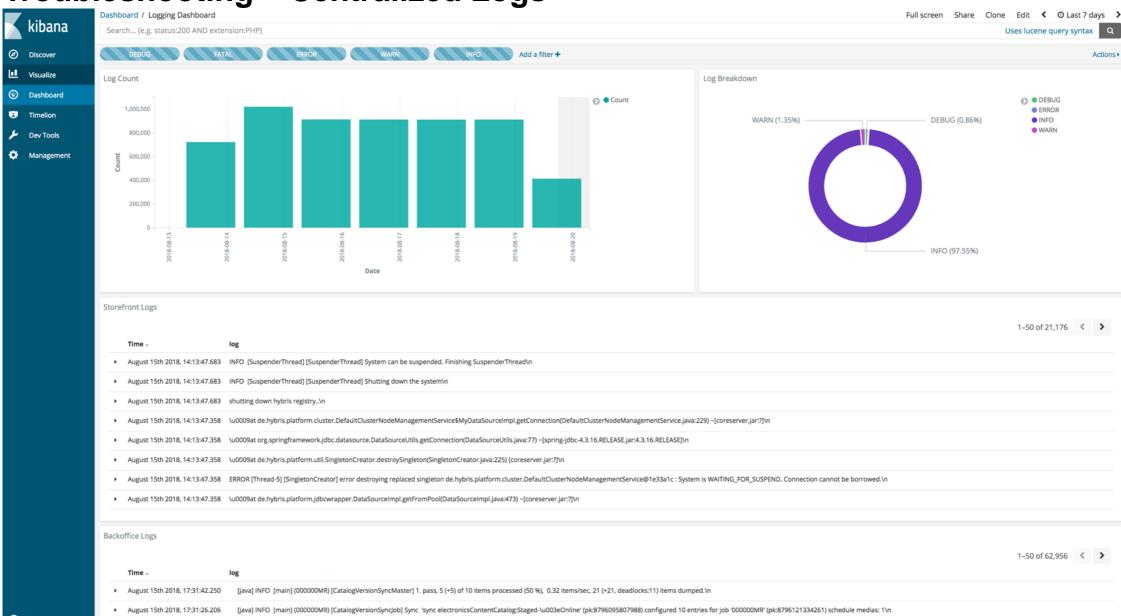
- No access to server...how do I look at the logs? Centralized logging with Kibana!
- Select the Logging option for your environment



# **Troubleshooting – Centralized Logs**

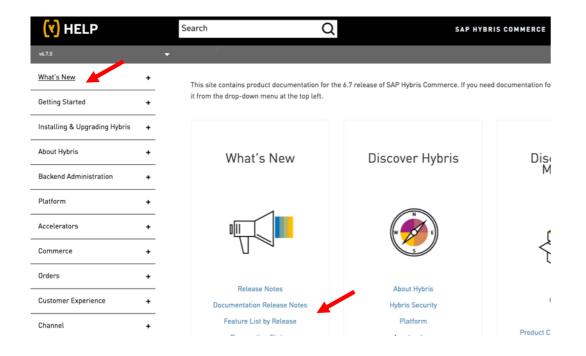
- Find yourself searching the same thing constantly? Use Saved Searches
- Turn those saved searches into comprehensive dashboards and visualizations
- Sample dashboard and saved searches provided in ALF

# **Troubleshooting – Centralized Logs**



# **Know What's Changed**

Read the <u>release notes</u> of every new version and evaluate against your projects



Watch the <u>webinars</u> that cover what's new and what's in the roadmap



# **Strategic Outlook**

#### 2018 and beyond

Cloud software lifecycle management

- Automated deployments
- Support for multicloud infrastructure
- Self-service capabilities

SaaS Commerce cloud

- Monthly releases and seamless upgrades
- Built-in integrations
- Optimized customization points

**Microservices** 

- Native cloud
- Greater scalability
- Foundation for next-gen intelligent services

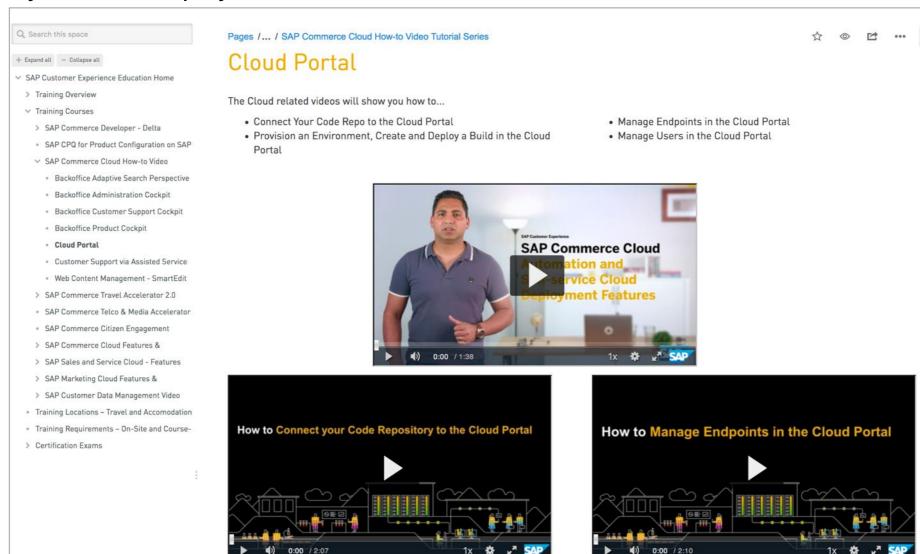
**Integrated suite** 

- Simplified front office
- Data privacy, security, and compliance

Deliver engaging customer experience and augment our foundational capabilities with intelligence through machine learning, natural language processing, and Big Data

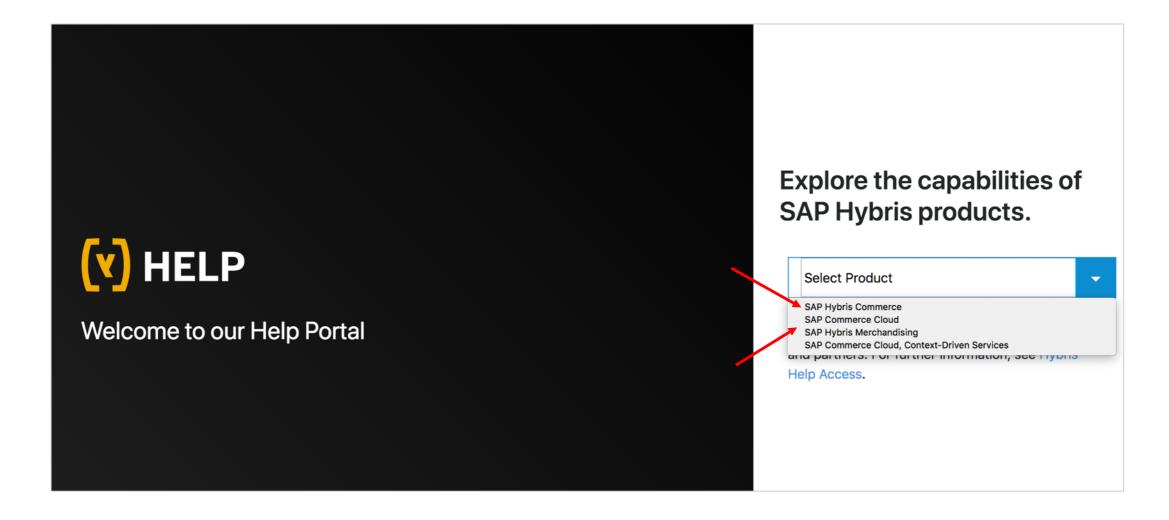
#### **Extra Resources: How-To Videos**

#### https://wiki.hybris.com/display/education/Cloud+Portal



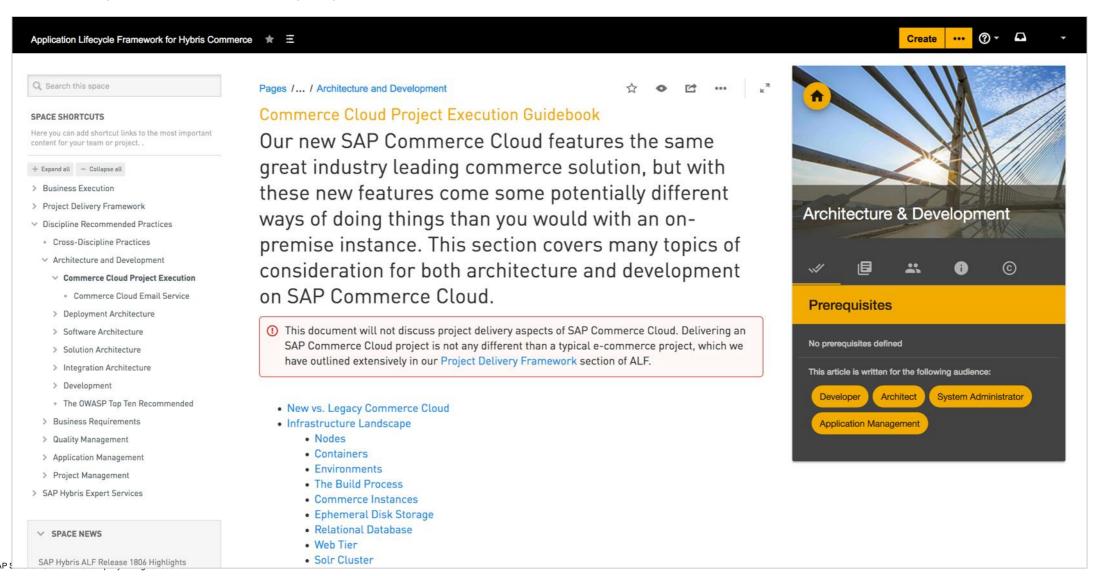
#### **Extra Resources: Product Documentation**

https://help.hybris.com



### **Extra Resources: ALF Commerce Cloud Project Execution Guidebook**

https://wiki.hybris.com/display/hybrisALF/Commerce+Cloud+Project+Execution+Guidebook



25

# Thank you.

Contact information:

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