SAP

Accelerators

Generated on: 2020-12-08 14:35:04 GMT+0000

SAP Commerce | 1905

PUBLIC

Original content: https://help.sap.com/viewer/4c33bf189ab9409e84e589295c36d96e/1905/en-US

Warning

This document has been generated from the SAP Help Portal and is an incomplete version of the official SAP product documentation. The information included in custom documentation may not reflect the arrangement of topics in the SAP Help Portal, and may be missing important aspects and/or correlations to other topics. For this reason, it is not for productive use.

For more information, please visit the https://help.sap.com/viewer/disclaimer.

Accelerators

SAP Commerce Accelerator is a ready-to-use web implementation template that enables you to jumpstart your implementation and easily build and maintain a feature-rich and flexible commerce solution.

Accelerator Essentials	Industry Accelerators	Resources
Discover the core Accelerators and tools.	Explore the Accelerators for specific industries that are available with this release.	Find further information to help you with your Accelerator implementation.
Core Accelerator Module B2C Accelerator Module B2B Accelerator Module Accelerator for China	Industry Accelerator Compatibility Matrix Financial Services Accelerator Telco & Utilities Accelerator Travel Accelerator	Technical Design Guide Wireframes

Technical Design Guide

The purpose of this document is to introduce you to the SAP Commerce Accelerator and to help you gain an understanding into what comes pre-packaged, why it has been implemented, how it works, and how you can use it to build out your project's requirements.

SAP Commerce Accelerator is a collection of template extensions to SAP Commerce that are a starting point for your new e-commerce implementation project. The project development team takes the SAP Commerce Accelerator source code, changes it, adds to it, and makes it your project's own. By the end of your project, the Commerce Accelerator source may have taken quite a different shape. The point of supplying this source code for your development team is so they have something to start with on day one; something that is implementing much of the functionality you will already need to fulfill your project requirements.

Commerce Accelerator also makes technical architecture choices for you, such as which MVC framework to use, how to render HTML, how to handle emails, how to organize your software components, and which CSS frameworks to use.

Commerce Accelerator also provides the development team with source code that may already fulfill a reasonable percentage of your customer's requirements. Accelerator ships with lots of standard and typical B2B, B2C, or Telco functionality implemented with best-practice, heavily adopted software frameworks. If your project requirements differ in some way from what Accelerator offers, your developers can also adapt the code, since it is all delivered as source. Your developers can also remove aspects of the source code that are not required for your project.

Accelerator also ships with sample stores that provide good reference points about how to correctly setup data in an SAP Commerce system and how to write scripts to load data in bulk in an efficient way.

Technical Introduction to SAP Commerce

SAP Commerce Accelerator is based on SAP Commerce. It provides a modular development framework with a rich type system for persistent data. It also provides a set of extensible tools to manage data and processes. To best leverage Accelerator, you should become familiar with the technical concepts of SAP Commerce.

SAP Commerce Telco & Utilities Accelerator Package

SAP Commerce Telco & Utilities Accelerator is a collection of template extensions to extend SAP Commerce as a starting point for your new telecommunication-specific implementation project. The project development team may take the Telco & Utilities Accelerator source code and alter it to completely fit your individual business needs. By the end of your project, the Telco & Utilities Accelerator source may have taken quite a different shape. The point of supplying this source code to your development team is to provide a solid foundational knowledge for your project and speed up your customization project. You will find that much of the functionality you require already comes with the default implementation.

The package also makes technical architecture choices for you, such as which MVC framework to use, how to render HTML, how to handle subscription products, how to organize your software components, and which CSS frameworks to use.

The solution also provides the development team with source code that may already accommodate your customer's requirements to a high degree. Telco & Utilities Accelerator ships with many telecommunication industry best-practices implemented and heavily adopted software frameworks. If your project requirements differ in some way from what Telco & Utilities Accelerator offers, your developers can also adapt the code, since it is all delivered as source. Your developers can also remove aspects of the source code that are not required for your project.

The software also ships with a sample store that provides good reference points about how to correctly setup data in an SAP Commerce system and how to write scripts to load data in bulk in an efficient way.

Telco & Utilities Accelerator is an extension of default Accelerator build. The same design and implementation principles apply for all products. You can find more information about design principles in the Key Design Principles section below.

Key features, delivered as a source code, which are specific for the Telco & Utilities Accelerator vertical include:

- Enhanced Product Model

- Device and Accessory Model

- Device and Accessory Compatibility

- Subscription Services and AddOn Services

- Bundling of Products and Services

- Guided Selling

Features

Key features delivered by the SAP Commerce Accelerator source code include:

- Spring MVC 3 Based Storefront

    - Annotation Based Page Controllers

    - Annotation Based CMS Component Controllers

    - Annotation Based URL Mappings

- Website Themes

    - Grid Based CSS Framework

    - Quick Skinning of a site

- Independent Themes Per Storefront

- JSP based View Layer
  - Page templating tags
  - Pages
  - CMS components
  - Tags
  - Locale, Theme and Site based Message Resources

- Web 2.0
  - Ajax Mini Cart
  - jQUERY
  - Ajax Modals
  - JSON Binding

- Facade Layer
  - Frontend agnostic storefront API
  - Everything customizable and extensible in the project using Spring Framework

- SOLR integration
  - Multi-select and refinement facets
  - Configurable facet and facet value ordering
  - Configurable sorts

- Spring Security
  - Authentication
  - Role based access restrictions
  - HTTPS
  - Secure GUID cookie

- Configurable Hot Folder Batch Importer
  - Spring Integration
  - Simple CSV files with ImpEx translator layer
  - Sequencing
  - Spring XML based configuration
  - Decoupled design

- Emails
  - Process Engine Integration
  - Velocity templates
  - Audit Trail

- Apparel Data Model

  - Multi level variants by style and size

- Multiple Storefronts residing on one server

  - Responsive UI experience for B2C storefronts

  - Split by country or brand

  - Shared or separate product catalogs

  - Share or separate content catalogs for multiple languages

  - Regional delivery rules

  - Net/Gross Prices

- Richly functional sample stores to demonstrate available Accelerator functionality

  - Landing pages

  - Product pages

  - Faceted search and navigation

  - Cart

  - Full checkout process

  - My account

  - Order history

  - Content pages

- Extensive sample data

  - All complete examples of using ImpEx

  - CMS content

  - Product catalogs with classification, product references, categorization, media, prices

  - Promotions

  - BTG segments and rules

  - Store locator points of sale

  - Buy Online Pickup in Store functionality

  - Integration for the SAP Order Management System

Commerce Accelerator Extensions

The SAP Commerce Accelerator extensions are split into four categories according to the vertical they belong to:

- SAP Commerce B2B Accelerator extensions

- SAP Commerce B2C Accelerator extensions

- SAP Commerce Telco & Utilities Accelerator extensions

- Shared extensions, which offer functionality required by more than one vertical

SAP Commerce B2C Accelerator Extensions

SAP Commerce Accelerator adds multiple extensions on top of those you get with the SAP Commerce. All extensions are shipped as source, and they are intended as a starting point for your project. However, the way you may work with these extensions on individual projects differs.

All `yaccelerator` extensions are templates from which a project would start by using the `extgen` and `modulegen` to make a copy with more suitable package and source naming for the project. `accelerator` extensions contain functionality specific for the Accelerator that are not templates. The `commerce` extensions are part of the Commerce layer of SAP Commerce and not designed to have source code directly modified.

B2C-specific extensions shipped with Accelerator are:

- The `yacceleratorstorefront`, `yacceleratorfacades` and `yacceleratorcore` extensions are templates that you should use as a starting point on a project. You would adapt the supplied template code and configuration in these to extend the functionality provided out of the box by the Accelerator to fulfill the requirements of your project.

- The `yacceleratorinitialdata` and `yaccelertortest` extensions are template extensions that are ready to be customized with test and initial data.

- The `commercefacades` extension provides a single storefront API that captures all typical B2C storefront functions while the `commerceservices` aggregates most B2C common extensions to provide more B2C oriented services out of the box.

The `acceleratorsampledata` extension is split into two AddOns, each providing sample data for one storefront:

- `electronicsstore` AddOn

- `apparelstore` AddOn

SAP Commerce B2B Accelerator B2B Extensions

Key Design Principles

- Use proven and well-established technologies and frameworks
    - Well-adopted in the development community
    - Adopt features of the Spring Framework where applicable and appropriate
- High Performance
- Clear layers of separation
- Adopt SAP good practices
- Clear, appropriate, and well-documented examples of using SAP Commerce technology
- Real-world samples
- Less HTML, more CSS
- Provide template
- `yaccelerator` extensions
- `extgen`-ready
- Provide front-end agnostic storefront API in the `commerce` extensions to extend by adaptable plugin points using Spring IoC
- Provide support for Selenium tests
- Easy to understand and adapt

Related Information

System Architecture of SAP Commerce Accelerator

This document introduces the key architecture aspects of SAP Commerce Accelerator. It is intended as a reference for developers, software architects, system architects, and consultants.

Commerce Accelerator combines a feature-rich web application with a collection of software components that fulfill many typical use cases that are common requirements on a vast number of SAP Commerce implementation projects. This document helps you understand the software as well as understand in more detail the features implemented by the software, how everything fits together, and how you can adapt the code or configure it to fulfill your project's requirements.

This document begins with a brief guide about how to use the document. Following that is a look at the architecture of an Accelerator driven deployment, which is presented to show a broad overview of the components involved. From there, you can pursue any topic, be it a guide to an extension, a guide to some specific functionality, and so on.

Using this Document

This section guides you about how to use this document.

Approaching the Documentation

There are two ways you can approach this documentation:

- You can deep-dive into one of the Accelerator extensions to find documentation related to the functionality and software components provided by that extension.
- You can read through specific topic area documentation, where functionality may cross the boundaries of multiple extensions.

The first use case tends to apply to developers who already have the code in front of them and want to understand part of it. The second use case applies to an architect or developer who wishes to understand the big picture of a more specific topic area such as how Advanced Personalization is handled in Accelerator or how Search and Navigation works.

Understanding Data Model Diagrams

Accelerator uses a flexible type system that lets extensions add additional attributes to existing types. During build time, model objects are generated and compiled from the type system definition, located in the `items.xml` file, and the result is the complete data model.

Accelerator requires a specific set of extensions out-of-the-box, but like the rest of SAP Commerce, it does not impose any limitations on further extensions being added that include data model changes.

Unless it is required to improve the clarity of the diagram, all the Accelerator data model diagrams only show the attributes and relationships of types added in the Accelerator extensions. You need to refer to other counterpart documentation to see a fuller picture of the data model. Where a type was extended, the UML stereotypes were used to identify at the class level in which extension the type was added, or at the attribute level which extension added the attribute.

The following diagram shows this:

The `BaseStore` class is declared in the SAP Commerce `basecommerce` extension. The *<net>*, *<taxGroup>*, *<defaultCurrency>*, and *<defaultLanguage>* attributes are all declared in the `commerceservices` extension.

For more information, see [basecommerce Extension](#).

Multitier Architecture

There are many types of system and software components that can make up a SAP Commerce deployment, indeed there is probably not one typical SAP Commerce deployment. The numbers of servers and components completely differ depending on the implementation requirements. To give you an understanding of the kind of system and software components you typically work with on a project starting with Accelerator as a base, the following section describes how various types of components physically and logically fit together. You can find more details about each component in the counterpart sections of the documentation.

For more information, see the following:

- [Storefront Web Application Deconstructed](#)
- [Spring Usage](#)
- [Business Processes and Eventing](#)
- [Data Importing](#)
- [WCMS Email and Process Engine Integration](#)
- [commercefacades Extension](#)

The diagram below shows an example deployment setup of the Accelerator based implementation. The rest of this section provides more details about the deployment presented in the diagram.
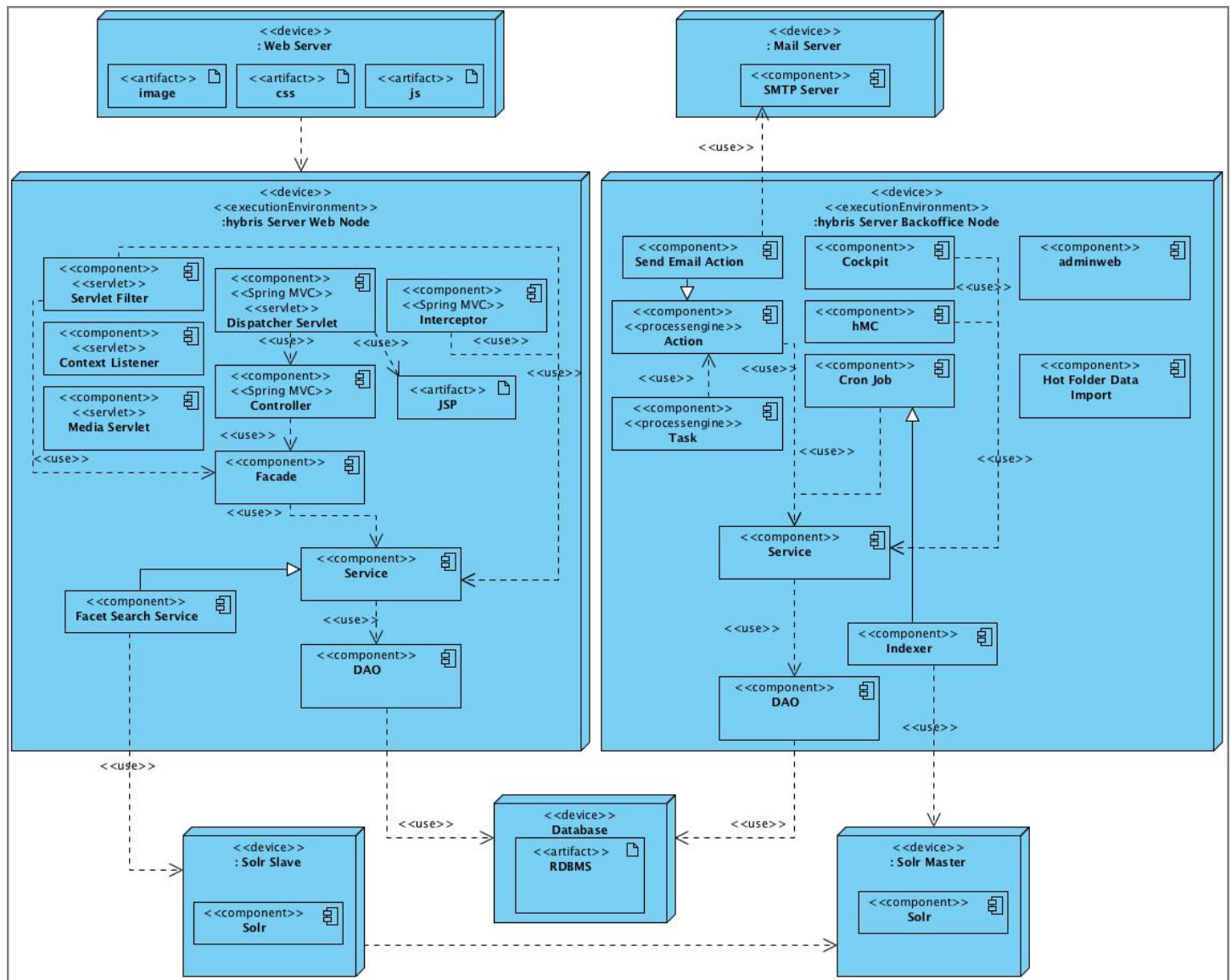
Figure: Example deployment of the SAP Commerce Accelerator based system.

Web Server

It is common to use a web server such as Apache to store static assets such as images, CSS, and JavaScript files. This is typically done to ensure the application server resources are not troubled with serving assets that can be served from the web server with greater performance.

For more information, see Running SAP Commerce.

SAP Commerce Application Server Nodes

Although it is possible to install all the software components in SAP Commerce on a single run time, it is more desirable to set up a cluster of servers to separate the functions that are dedicated to serving real-time customer web requests from those that perform asynchronous processes or administration interfaces. This preference is driven by performance, fault-tolerance, and network security reasons.

For more information, see the following:

- Clustered Environment
- Setting Up a Production System

You can divide the software components that run inside the SAP Commerce run time into separate logical layers. There is a brief description and reference to further information for each layer.

Web Request Application Server Node

You can set up one or more application servers to service requests from the web. These could be just requests on the websites or requests from web services. The state is maintained using HTTP sessions. The requests are often proxied through a web server and often a session ID aware load balancer is installed to ensure that load is distributed evenly to all available application servers.

Presentation Layer

The presentation layer consists of following components:

- **Servlet Components**
    - Filters
    - Listeners
    - Dispatcher Servlet
    - Media Servlet
- **Spring MVC**
    - Dispatcher Servlet
    - Controllers
    - Interceptors
- **View**
    - JSP/JSTL

For more information, see the following:

- [Storefront Web Application Deconstructed](#)
- [mediaweb Extension](#)
- [ServiceLayer](#)
- [items.xml](#)
- [ServiceLayer Architecture](#)

Service Layer

The `ServiceLayer` API consists of following components:

- Facades
- Services
- Data Access Objects

Commerce Accelerator uses services and facades exposed in the `commerceservices` and `commercefacades` extensions. Both of these extensions contain implementations of commerce-related services and facades, which you can use in different clients that require access to some higher level commerce methods.

The Commerce Accelerator project also contains two additional extensions: `acceleratorservices` and `acceleratorfacades`. You can place all Accelerator-specific implementations of the service layer in one of these extensions.

Persistence Layer

The persistence layer is all out-of-the-box and requires very little work on the project side except describing/modifying types in the `items.xml` file.

Simple Request Interaction Diagram

The following interaction diagram shows how the application server components interoperate to service a client request:
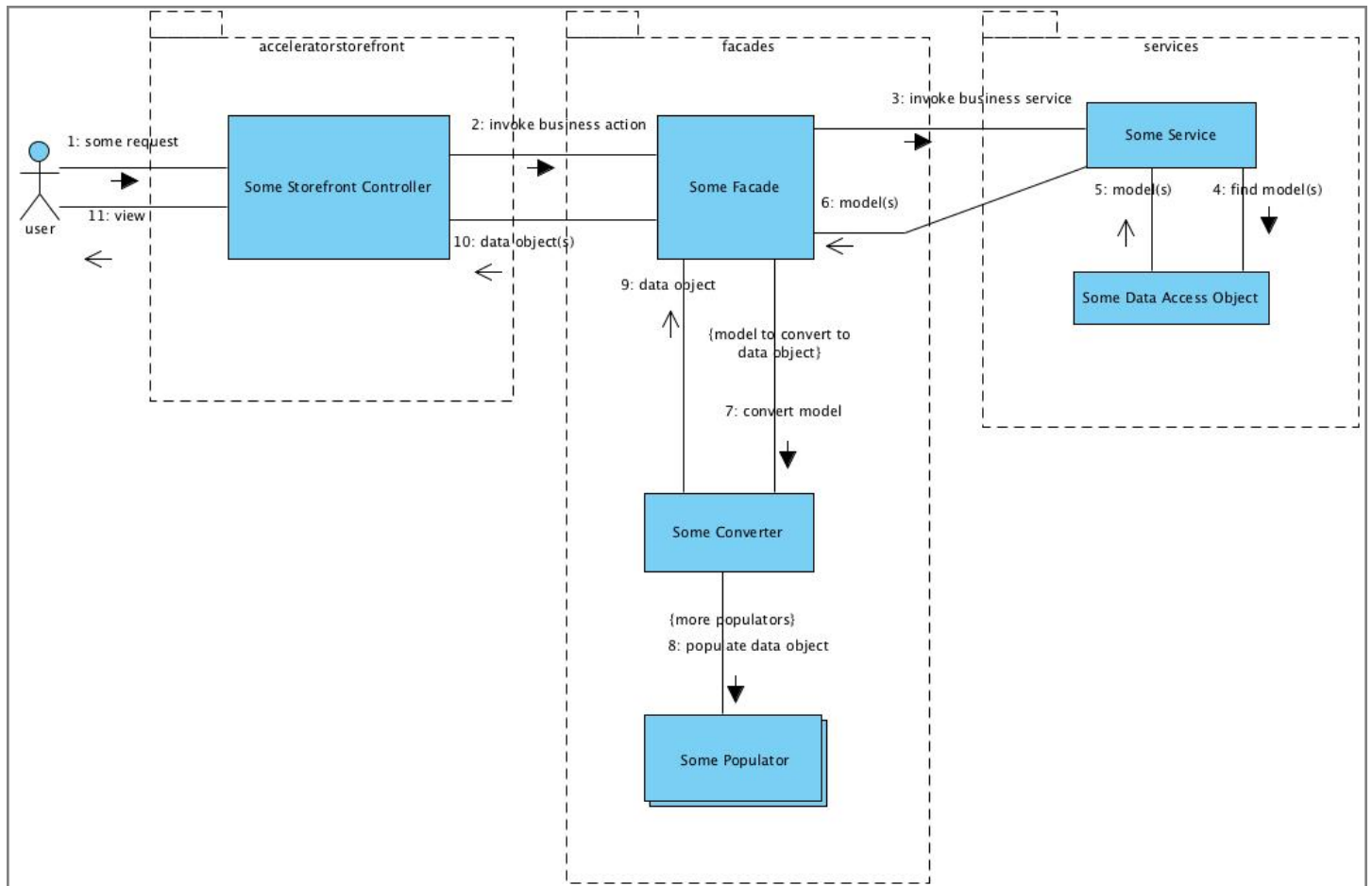
Back Office Application Server Node

Back office functions including various administration interfaces can be separated onto different physical application servers. This can simplify security as administrative applications that should not be available across the Internet can simply be installed on a back office machine without Internet access. Back office processes tend to require different types of data to be cached, thus helping to improve cache performance. It can also be desirable to allow for a little downtime possibility on back office nodes, separating the back office process allows you to do this without having downtime on the storefront.

Administration Applications

The following applications can be used for the administration of your system:

- Management Console
- Administration Web
- Business and Administration Cockpits, for example:
    - Administration Cockpit
    - Product Cockpit
    - Report Cockpit
    - Print Cockpit

- Customer Service Cockpit

For more information, see the following:

- End user documentation:
    - [Administration Console](#)
    - [Getting Started with the Administration Cockpit](#)
    - [Working with the Product Cockpit](#)

- Technical documentation:
    - [Backoffice & Backoffice Product Content Management](#)
    - [hac Extension](#)
    - [admincockpit Extension](#)
    - [productcockpit Extension](#)

Service Layer

The SAP Commerce Accelerator and SAP Commerce are based on the ServiceLayer API. The following technologies are used within the SAP Commerce Accelerator:

- Cron Jobs
- Tasks, Processes, and Actions
- Hot Folder Data Importer
- Services
- Data Access Objects
- SOLR Indexer

For more information, see the following:

- [The Cronjob Service](#)
- [The Task Service](#)
- [The SAP Commerce processengine](#)
- [The SAP Commerce processengine](#)
- [Data Importing](#)
- [commerceservices Extension](#)
- [ServiceLayer Architecture](#)
- [Search and Navigation](#)

Persistence Layer

The persistence layer is all out-of-the-box and requires very little work on the project side except describing/modifying types in the `items.xml`.

Diagram of Logical Organization of Software Components

The following diagram shows how the components are arranged into their logical tiers:
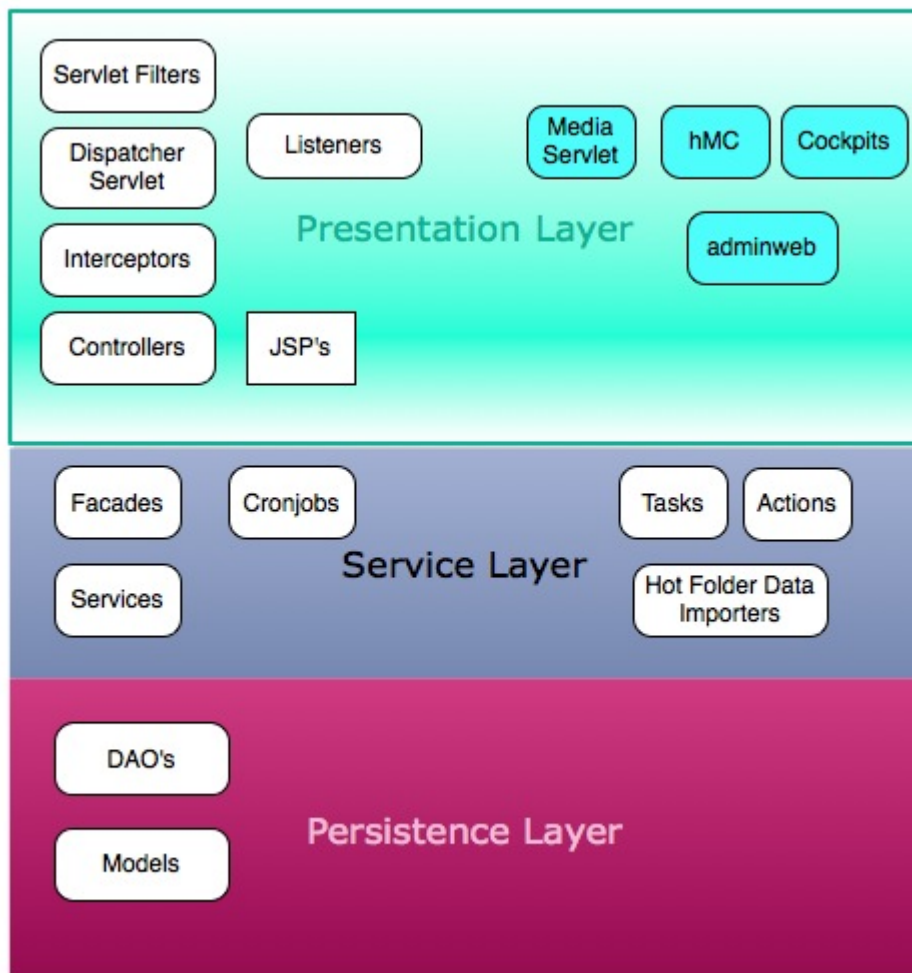
Solr Standalone

SAP Commerce packages Solr 5, which doesn't support running Solr in Embedded mode. To assist projects in their development, a number of new Ant Tasks are available. For more information, see Search and Navigation Module and solrfacetsearch Extension Technical Guide.

Relational Database

SAP Commerce supports a wide range of RDBMS. For more information, see Third-Party Databases.

Other Components Not Covered

- Load Balancers
- VIPs
- Firewalls
- SFTP/FTP Servers
- Media Asset Management Systems
- ERP Systems
- Payment Service Providers
- CRM Systems

Integration Points To Consider

SAP Commerce Accelerator provides a great deal of functionality straight out-of-the-box, but projects need to consider additional integration points to other external systems. The following deployment diagram identifies integration points to some more common third-party systems that may need additional development effort. This list is not exhaustive, but it is a list of fairly common integration points in a B2C implementation.
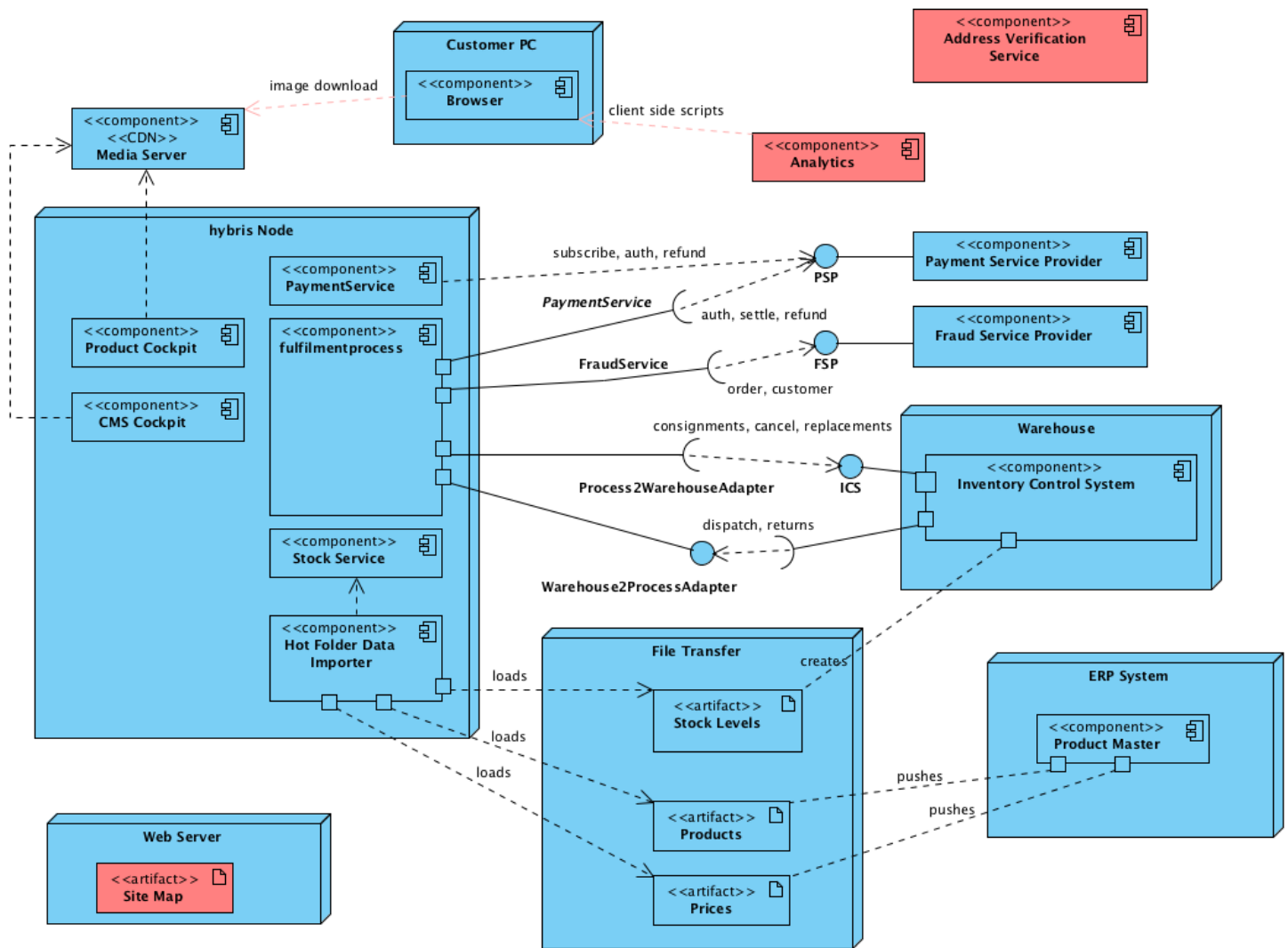

ERP as a Product Data Source

If SAP Commerce PCM is not going to be the master for product information, the project's customer usually has one or more existing Enterprise Resource Planning (ERP) systems in place that contain the master product and pricing data. The project customer may also have an existing Enterprise Application Integration (EAI) tool that is used to integrate the company's various systems. It may be the customer doesn't have anything as sophisticated as an ERP - regardless, the point is that a separate system contains the product/pricing master data and this data needs to be integrated with SAP Commerce.

For more information, see Data Importing

The `yacceleratorcore` extension provides a Hot Folder Data Import feature based on Spring integration. Out-of-the-box, you can drop CSV files into a hot folder location and you can configure the application to load these files in a batch and update SAP Commerce. If the implementation project just requires additional files and attributes and the CSV format is fine, then the level of effort should be quite low. If a project is lucky enough to be able to dictate the file format, then the level of effort is reduced even more.

If updates have to arrive in a different format, then you need to adapt the Data Import feature to work with differing formats by integrating a different `ImpexTransformer`. Furthermore, if the format is not delivered as a file, then you need to adapt the `ServiceActivator` to handle the new inbound format, such as ESB Integration, a JMS Message, or a WebService request. In

the later case, the software provided by the Hot Folder Data Import feature is little more than a reference of how to use Spring Integration to integrate external data sources into SAP Commerce.

Warehouse

Most websites that sell physical products need some direct interaction with a Warehouse Management System (WMS) or a Stock Control System if Cart & Checkout is to be used to control the full fulfillment process.

The template `yacceleratorfulfilmentprocess` extension provides various stubs where interfaces to a WMS could be implemented for a project. Out-of-the-box, a Warehouse Mock simply pushes the order through the fulfillment process. Effectively, a project needs to replace the Mock with the integration code that interfaces with the WMS. The `yacceleratorfulfilmentprocess` extension is built using the SAP Commerce Process Engine, so you can adapt it to meet project-specific fulfillment workflows. Generally, interfacing with warehouse systems incurs quite lengthy testing to ensure all the various order process permutations get sufficient coverage, so this would usually require a high level of effort.

For more information, see the following:

- [The SAP Commerce processengine](#)

Payment Service Provider

The `yacceleratorstorefront` extension takes payment card information and expects a third-party Payment Service Provider (PSP) to support a subscription saved-card based service primarily to ensure that customers sensitive card information, like the number and CVV, do not need to be stored in the SAP Commerce database. The integration with the PSP is a deep integration, in that the web application still receives the full card details and then, in the same request, passes them on to the PSP.

By default, a Mock PSP is enabled, but Accelerator also offers the `cybersource` extension, which adds a `CardPaymentService` implementation for cybersource. Accelerator has been tested with `cybersource`. Using `cybersource` as the payment service provider is mostly a configuration effort with CyberSource and therefore has a low effort impact. If a project has to integrate a different payment service provider, then this needs a new `CardPaymentService` implementation. This entails at least a medium level of effort.

> ⓘ **Note**
> The CyberSource extension has been removed from the SAP Commerce distribution.

Two different payment flows are present out-of-the-box:

- hosted page: where the user is being redirected to a 3rd party page to enter credit card information
- order post: where a credit card form is rendered in the Accelerator and posted directly to the 3rd party

These two solutions have their implementation in cybersource (HOP and SOP) and are supported by Accelerator out-of-the-box.

Other payment providers support the same type of flow and implementing another payment provider entails at least a medium level of effort.

Fraud Service Provider

SAP Commerce Accelerator ships with a score-based extensible Fraud Detection system that allows you to do real-time checks against certain aspects of an order or a customer. Essentially, the checks look for certain symptoms and rank the results with a score. If the result of all the checks is a score that exceeds a tolerance threshold, the order is put on hold.

If a project requires additional fraud checks to be carried out by an external fraud service provider, typically due to a requirement for accessing external information like blocklisted cards or a credit history, then it is possible to plug such a provider directly into

the `fulfilmentprocess` by implementing a new `FraudServiceProvider`. The new provider can either replace the standard SAP Commerce provider or be added as a separate fraud check step.

It is also possible to extend the existing symptom detection logic in the SAP Commerce Fraud Service and add additional rules.

This integration tends to constitute a low level of effort to add a few extra rules, pushing to medium-high to integrate a whole new external fraud provider.

For more information, see Fraud Detection.

Media Server

SAP Commerce provides a Digital Asset Management module. This is not demonstrated with SAP Commerce Accelerator as it requires installation of third-party software that complicates the basic developer-ready install, but the system is fully compatible with this module. You can integrate it directly into the cockpits to pull media directly from the DAM as well as supporting the creation of automated jobs to pull updated media without any manual intervention. It should be deemed low to medium effort to get this module running.

Content Delivery Networks (CDN) support for images is not explicit, however you can integrate such support into the Facade layer by effectively replacing the Standard `ImageConverter`. Out-of-the-box, this uses a `Media` as the source to create the prototype `ImageData` object. However, you can replace it with one that can generate `ImageData` objects using another source, for example something as simple as a naming convention. This would be low to medium effort.

Analytics

It is common to include analytics on a web site to figure out how your customers are using the site and what pages are popular and unpopular. Typically this involves adding the necessary data you wish to track in the page view and including some JavaScript on each page.

Out-of-the-box the `yacceleratorstorefront` extension includes integration of Google Analytics via the `analytics.tag` file. Further implementations can be added through this file or in an AddOn.

For more information, see the following:

- Google Analytics

Site Map

You may want to generate a Search Engine Site Map to place on your website web server. A CronJob is provided that will generate Google-compliant Site Map XMLs and make them available in the standard sitemap.xml file.

For more information, see Sitemap Configuration.

B2B Commerce Module

The SAP Commerce B2B Commerce Module allows you to leverage the SAP Commerce B2C features in a B2B context. The B2B module is now delivered as a set of AddOns to the base Accelerator.

For more information, see the following:

- b2bcommerce Extension
- b2bapprovalprocess Extension

The B2B Commerce Module provides an intuitive way to interact with client companies, to assign different prices, allow access to different catalogs, promote special quote negotiations, and extend different credit limits. Additionally, you provide the customers with the tools to manage their own organizations, employees, and company hierarchy. Therefore, to set up a new client, you only need to create a new organization and a new customer in that organization with administration roles. From that point forward the new customer with the administration role can expand, configure, oversee, and maintain the organization.

B2B Organizations

A client organization is set up to be hierarchical where each node is called a unit. A unit may represent a subdivision such as a department. An individual customer exists as a member of a unit within this hierarchy. Many rules and criteria are derived from the hierarchy, for example the transaction approvers associated with a customer, what credit limits apply, or what cost centers customers may access.

To demonstrate organization setups that clients might have, the `powertoolsstore` extension in Accelerator provides two fictitious client organizations. Please see the diagram below for more details.
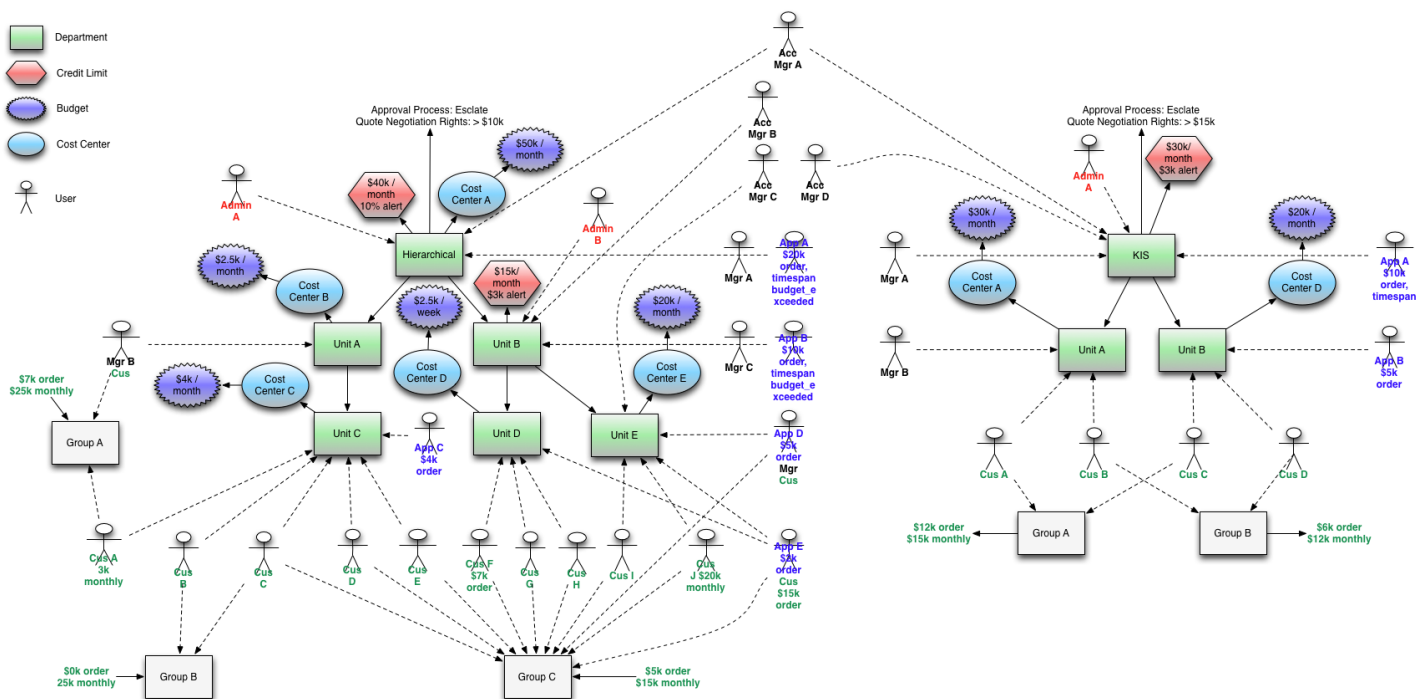
Figure: Reference B2B store, shipped with SAP Commerce Accelerator.

The reference B2B store available in the Accelerator package has four account managers for various units. The diagram above illustrates the interaction between account managers, the customers, customers in different locations in the company hierarchy, the various purchasing permissions, and the responsibilities and purview of customers with various roles.

B2B Credit Limits

Within the reference organization, you may find a credit limit of $40 000 a month and a quote negotiation threshold of $10 000. You may impose a credit limit on a company, after which point orders do not go through without the explicit approval of the designated account manager. Additionally, with Accelerator, there is a quote negotiation threshold set up, which permits orders with higher totals to be eligible for price negotiation with an account manager.

Roles and Visibility

There are four roles with different privileges that you can grant to customers: **Admin**, **Manager**, **Approver** and **Customer**. You give roles to customers by adding them to the following usergroups: **b2badmingroup**, **b2bmanagergroup**, **b2bapprovergroup** and **b2bcustomergroup**. Administrators have many configuration options for their organization. They can designate budgets not to be exceeded, determine different purchasing rules for different staff members, designate approvers, and mandate delivery addresses.

Members of **b2bcustomergroup** can make purchases and **b2bapprovalgroup** members can approve orders, other factors not withstanding.

The unit a customer is a member of in the hierarchy determines his visibility within the organization. Members, even administrators, can only access entities associated with their parent units as well those associated with any of its subunits. In our diagram, a customer **Admin A** presides over an organization of six units or departments. **Admin B** is set up further down in the hierarchy where **Admin B** can manage the immediate unit, as well as all of its subunits, but **Admin B** may not access entities, that is customers, cost centers, and permissions above **Admin B**'s parent unit.

Cost Centers and Budgets

As customers place purchases against the company account, they must bill them to specific cost centers. Per visibility, they have access to cost centers assigned to their unit, and the cost centers in their branch. Cost centers also dictate the delivery address they may choose. A budget, set up by an administrator, is associated with each cost center. Once purchases against the cost centers exceed the budget, no further purchases are allowed without explicit permission.

Order Permissions and Order Approval Process

There are three checks that are verified before an order is placed. This is the stock configuration of the `b2bapprovalprocess` extension. Please refer to documentation about `b2bapprovalprocess` extension to learn how to configure and create new permissions and approval processes to suit your specific needs. The three implemented permissions are Order Threshold Permission, Order Threshold Timespan Permission, and Budget Exceeded Permissions.

For more information, see [b2bapprovalprocess Extension](#).

An administrator creates instances of the permissions such as Order Threshold Permission with varying threshold amounts, for example $500, $5000, and so on. These permissions are then either directly assigned to the customers or added to a permission group and the permission group is assigned to a customer.

Upon initiating an order, the approval processes evaluates the order against the customer's permissions. The order gets placed if the customer possesses all three required permissions for that order. If the customer permissions are not sufficient, the `b2bapprovalprocess` approval strategy searches for approvers assigned directly to the purchaser, then searches the parent unit, and then up the organization units until it finds an approver who possesses the missing permissions to place that order. Once an approver is found, it appears in the approvers Order Approval Dashboard where the approver may add a comment and approve or reject the order.

Google Local Shopping Export

SAP Commerce Accelerator supports exporting product data, prices, and store locations to Google Shopping / Local, so that customers can find products in their local stores via the Google search.

The process of exporting data to Google Local Shopping is split into two separate parts. The first part generates the data file and the second part uploads the data files to the Google servers. Both processes are triggered by a CronJob. The CronJob initiates a spring integration pipeline, which actually does the work.

Generating Export Data

The `DataExportCronJob` initiates the process of generating the data files. It executes the `DefaultExportDataJobPerformable` job and is configured with the following parameters:

Parameter	Description
baseStore	The base store to export products and stores from.
cmsSite	The CMS site used to build links to the online products.

Parameter	Description
language	The language for the data to export.
currency	The currency for the product prices to export.
user	The user to run the export as, which controls the available products, prices, taxes, and so on.
thirdPartyHost	The upload location for the generated files.
thirdPartyUsername	The username of the third party account.
thirdPartyPassword	The password of the third party account.
dataGenerationPipeline	The name of the spring integration pipeline that generates the data

The default Spring integration pipelines for Google Local Shopping export are `exportGooglePosPipeline` and `exportGoogleProductPipeline`. The `exportGooglePosPipeline` exports all the stores in the selected base store. The `exportGoogleProductPipeline` exports all the products in the selected base store. Google suggests the store export be generated at least monthly, and the product export be generated at least weekly. As these two different exports have to be triggered by different cron jobs, it is straight forward to configure them with different schedules.

The generated files are written to the local file system, if SAP Commerce is running in a cluster, then the files are written to the node where the export cron job executes. The export folder location is looked up via the runtime configuration property *<acceleratorservices.export.basefolder>*, which defaults to `${HYBRIS_DATA_DIR}/acceleratorservices/export`. The generated files are named to allow the upload process to identify the data export cron job that generated it.

Uploading Data

The data upload is initiated by a `GenericCronJob` executing the `DefaultUploadDataJobPerformable`. This triggers a Spring integration pipeline that looks for generated data files that need to be uploaded. The filename allows the export cron job to be identified and from that the upload configuration can be read. The file it uploaded to the `thirdPartyHost` using the `thirdPartyUsername` and the `thirdPartyPassword`.

Customizing the Export

The main aspect of the Google Local Shopping export that you need to customize is the conversion beans that convert the SAP Commerce items into the appropriate record format for export to Google:

Bean	Converter Type	Source Ty
exportGooglePOSConverter	de.hybris.platform.acceleratorservices.dataexport.googlelocal.converter.**PosConverter**	**PointOfSe**
exportGoogleProductConverter	de.hybris.platform.acceleratorservices.dataexport.googlelocal.converter.**ProductConverter**	**ProductM**

Store Locator

Store Locator is a functionality that helps consumers find stores in the proximity of a given postal code or city name. The `StoreLocatorFacade` is exposed in the `commercefacades` extension, and it uses services from `basecommerce` module. Searching and returning results is based on `PointOfService` objects stored in the database.

For more information, see the following:

- [Store Locator Configuration](#)
- [Store Locator Implementation](#)

Customer Reviews

Customer reviews is a functionality that allows clients to add a review to a product. In the `commercefacades` extension, retrieved product data is filled with reviews that are fetched from database. All service layer functionality related to customer reviews is in `customerreview` extension. Search restrictions that limit fetched reviews only to approved and belonging to customer user group is turned on by default and can be deactivated with the property key *<customerreview.searchrestrictions.create>*.

For more information, see the following:

- [Managing Customer Reviews per Product](#)
- [Customer Reviews](#)

Related Information

[Installing & Configuring Third-Party Components](#)
[System Requirements](#)

Installing & Implementing Accelerator

This section provides you with information about installing and implementing SAP Commerce Accelerator.

> ℹ **Note**
>
> SAP Commerce Accelerator is released as source and are **implementation templates**. Due to the template character of Accelerators and their need for intense customization, you cannot apply patches to customized Accelerator storefront templates. Therefore, we do not offer backports of bug fixes for Accelerator storefront templates for prior releases of Accelerator. You must maintain your Accelerator storefront template implementations on your own once you customize the template.

Web Browser Compatibility

The following sections list the web browsers and operating systems that have been tested with Commerce B2C Accelerator.

Desktop and Laptop Browsers

The following table lists browser compatibility for desktop and laptop computers.

Operating System	Browser
Windows 10	Edge 44
	Chrome 74.x
	Firefox 67.x
macOS 10.14 Mojave	Safari 12
	Chrome 74.x
	Firefox 67.x

Tablet and Mobile Browsers

The following table lists browser compatibility for tablets and mobile devices.

Operating System	Device	Browser
iOS 11	iPad Pro	Safari 11
Android 8.0 Oreo	Samsung Galaxy Note 4	Chrome 64

[B2C and B2B Accelerator](#)

This section provides information on installing and upgrading B2C/B2B Accelerator.

[Additional Storefront Configuration](#)

This document describes how to access the Accelerator storefronts, set up email service, and set up the store locator.

[Accelerator for China Implementation Guide](#)

The Accelerator for China enables you to easily build an omni-channel e-commerce solution. It has all the functionality and business tools necessary to create an engaging customer experience, improve conversion and simplify management. The Accelerator for China is built on SAP Commerce Accelerator and allows you to use most of the available features from other Accelerators.

B2C and B2B Accelerator

This section provides information on installing and upgrading B2C/B2B Accelerator.

[B2C and B2B Accelerator Implementation](#)

Learn how to implement B2C and B2B SAP Commerce Accelerator.

[Configuring Autocomplete on the Login Field](#)

You can disable the autocomplete feature on the username login field.

[Installing B2C and B2B Accelerator Locally](#)

Installation recipes offer a quick way to install SAP Commerce Accelerator locally for demo purposes. Additional steps may be required to access the sample storefronts included with Commerce Accelerator.

B2C and B2B Accelerator Implementation

Learn how to implement B2C and B2B SAP Commerce Accelerator.

SAP Commerce Accelerator enables you to easily build a multichannel eCommerce solution. It has all the functionality and business tools necessary to create an engaging customer experience, improve conversion, and simplify management.

Commerce Accelerator is built on SAP Commerce. The following sections explain how to start a successful Commerce Accelerator implementation.

Project Generation

SAP Commerce Accelerator is delivered completely as source code. You can edit the source code directly, but your project would probably prefer some kind of project-specific package naming. With the `modulegen` functionality, you can quickly generate a complete set of Accelerator extensions. Use `modulegen` to generate copies of the Accelerator extensions, using your project's naming conventions.

See the [Customizing the Accelerator with extgen and modulegen](#) document for more information.

Throughout the rest of the documentation `yacceleratorcore`, `yacceleratorfacades`, `yacceleratorinitialdata`, `yacceleratorstorefront`, `yacceleratortest`, and

`yacceleratorcockpits` can be read as references to your project-specific extensions that you have generated using `modulegen`.

Sample Store Set-Up

You have the option to set up the Commerce Accelerator sample stores to see what functionality you have as a starting point. See the [apparelstore Extension](#) and [electronicsstore Extension](#) documents for more details about the stores provided.

You can load sample stores via your `yacceleratorinitialdata` extension. By default, this extension loads the sample stores. You should change this behavior when you no longer require them. The `apparelstore` and `electronicsstore` AddOns hold the data for the sample stores, and so they have a dependency on your `yacceleratorinitialdata`. You can remove this dependency when you no longer wish to load the sample stores.

See [Installing B2C and B2B Accelerator Locally](#) for more details.

Product Catalog Data Modeling

In this step, you should identify and apply any necessary changes to your product catalog model. Modeling your customer's products enables you to identify any gaps that might be present in the out-of-the-box data model shipped with the Commerce Accelerator extensions and the rest of the SAP Commerce. Deciding the additional attributes that need to be exposed on the Storefront also helps you decide whether you need to customize the out-of-the-box Data Objects provided in the Facade Layer. You also identify the attributes that need to be indexed for search and navigation purposes.

This process also helps you identify how to provide Product Data to the system, which helps to identify any integration points (such as data feeds) from third-party ERP systems. It is possible that additional attributes are only required for reference in the Product Content Management tools or for back-office reporting.

During this stage, follow these steps:

1. Make changes to the `yacceleratorcore` extension `items.xml` file.

2. Create some basic ImpEx scripts to create your product catalog and catalog versions.

3. Create a basic category taxonomy using ImpEx.

4. Create a classification structure using ImpEx, if applicable.

5. Extend and customize facades, converters, populators, and data objects defined in `commercefacades` and in the project `yaccelectorfacades` extension.

6. Configure a basic SOLR Index using ImpEx.

For more information, see:

- **Product Catalog Modeling**

  - [Catalog Guide](#)

  - [Structuring Your Collection with Products and Categories](#)

  - [items.xml](#)

  - [Classification](#)

- **Search and Navigation**

  - [Search and Navigation](#)

- **Facades**

  - [commercefacades Extension](#)

Initial Data Scripts Creation

You should create some initial data scripts that run whenever the system is initialized through your `yacceleratorinitialdata` extension. See [yacceleratorinitialdata Extension](#) for more details.

In the early stages of development, the data model is likely to be changed often. This results in many re-initializations of each developer's database. For productivity purposes, it is highly desirable for the system to automatically execute scripts that load product data and CMS content as part of a project extensions project data. This saves developers from constantly having to add in sample products and/or WCSM content to test the functionality they have developed.

The sample Accelerator Stores are all built using ImpEx scripts that are triggered by running project data through the update running system page. You will find a set of skeleton scripts in `yacceleratorinitialdata`

Having a set of automated data provisioning scripts in place is useful if you wish to provide a system in a ready state for QA or have a continuous integration system that runs smoke tests. They have features you can configure and that all developers can run during a system initialization. `yacceleratortest` extension is provided for this purpose.

You may also want to set up a series of essential scripts that need to be run in all environments, including Production. These should be included in your `yacceleratorcore` extension.

For more information, see:

- [Initializing and Updating SAP Commerce](#)

- [Essential and Project Data](#)

- [apparelstore Extension](#)

- [electronicsstore Extension](#)

- [yacceleratorinitialdata Extension](#)

- [ImpEx Import for Essential and Project Data](#)

Configuring Autocomplete on the Login Field

You can disable the autocomplete feature on the username login field.

Context

On the login page, the autocomplete feature is automatically available to recall a previously entered login name or email address. While this feature is convenient for the user, it can be a security issue.

To disable this feature, you need to update the `login.tag` field for the `yacceleratorstorefront` accelerator.

Procedure

1. Find the file named `login.tag` in the following directory: .

   `yacceleratorstorefront/web/webroot/WEB-INF/tags/responsive/user/`

2. Edit the `login.tag` file and locate the `loginForm` commandName.

3. In that section, find the following line and add `autocomplete="off"` at the end.

   The line should look like this:

   `<formElemnt:formInputBox idKey="j_username" labelKey="login.email" path="j_username" mandatory="`

4. Save the file and refresh the page.

The autocomplete feature for the username field is now disabled.

However, if you wish to enable the autocomplete feature for the username field, set the `autocomplete` parameter to "on".

Installing B2C and B2B Accelerator Locally

Installation recipes offer a quick way to install SAP Commerce Accelerator locally for demo purposes. Additional steps may be required to access the sample storefronts included with Commerce Accelerator.

The Commerce Accelerator installation includes sample data for the demonstration storefronts. This document is an appendix to [Installing SAP Commerce Using Installer Recipes](#), which describes the process of installation of the SAP Commerce, and adds additional setup instructions about installing the SAP Commerce Accelerator with its sample storefronts.

> ℹ **Note**
>
> SAP Solution Integration provides integration between SAP Commerce and SAP solutions such as SAP ERP and SAP Marketing. For more information see [Introduction to SAP Integrations](#).

Basic Installation

To perform a basic installation of the Commerce Accelerator, follow all the steps described in [Installing SAP Commerce Using Installer Recipes](#) for the SAP Commerce, using, for example, the B2C Accelerator or B2B Accelerator recipe, according to your requirements.

> ℹ **Note**
>
> It is no longer necessary to install the `b2ccheckoutaddon` AddOn. The `b2ccheckoutaddon` AddOn has been removed because the B2C checkout functionality has been incorporated directly into the `yacceleratorstorefront` extension.

> ℹ **Note**
>
> To install the B2C or B2B Accelerator, you only need to download the `commerce-suite.zip` file. The `commerce-suite-repositories.zip` file is not required.

For information on system requirements, see [System Requirements](#).

Accessing the Sample Storefronts

To access the sample storefronts, you must add a `localhost` mapping to your computer's `hosts` file. The `hosts` file approach requires this extra setup step on your computer and it more accurately represents how storefronts will most likely be organized in terms of domain URLs in a production environment.

For more information, see [Just One Storefront](#).

Hosts File Approach (Recommended)

You should add the following lines to your file once you have located it. Note that system admins often restrict access to this file, at least write access, so you may not have the necessary access rights to edit the file.

```
127.0.0.1        apparel-uk.local apparel-de.local electronics.local powertools.local
```

You can then access the sites as follows:

- `http://apparel-uk.local:9001/yacceleratorstorefront`

- `http://apparel-de.local:9001/yacceleratorstorefront`

- `http://electronics.local:9001/yacceleratorstorefront`

- `http://powertools.local:9001/yb2bacceleratorstorefront`

Site Parameter Approach

There is an alternative shortcut approach of using a `site` parameter. However, this only allows you to visit one site in the same browser session. Otherwise you run into session sharing issues when you visit a second site. This is caused by the fact that your domain is the same and the application server does not provide you with a second fresh session. This approach is not recommended but is available as a convenience feature.

- `http://localhost:9001/yacceleratorstorefront?site=apparel-uk&clear=true`

- `http://localhost:9001/yacceleratorstorefront?site=apparel-de&clear=true`

- `http://localhost:9001/yacceleratorstorefront?site=electronics&clear=true`

- `http://localhost:9001/yb2bacceleratorstorefront?site=powertools&clear=true`

> ℹ **Note**
>
> **Implementation Note**
>
> If it is not possible to use the hosts file approach, you should consider creating a servlet filter and wrapping the `HttpServletRequest` object in a bespoke `HttpServletRequestWrapper` sub-class, which uses a bespoke `HttpSession` to internally segregate all session attributes by a site-id key. The filter should essentially set up the request wrapper and initialize the current active site using the site-id parameter from the request or if not available from the session. This code however would never be recommended for a production setup.

Setting Up Email

The `MailUtils` Utility from the Platform `core` extension is used to send emails. Typical configuration parameters to place in your `local.properties` file are as follows:

```
mail.smtp.server=<your_mail_server>
mail.smtp.port=25
mail.smtp.user=<your_user>
mail.smtp.password=<your_users_password>
```

You need a mail server installed on your local machine or accessible on a shared network to receive emails.

Links and images in emails require a fully qualified path to resolve the resource correctly in the storefront. To set up email links to work correctly, configure your `UrlResolutionService` in your `local.properties`. For more information about the `UrlResolutionService`, see the [commerceservices Extension](#).

Assuming you are using the `hosts` file approach, the following configuration properties need to be declared in the `local.properties` file:

```
website.apparel-uk.http=http://apparel-uk.local:9001/yacceleratorstorefront
website.apparel-uk.https=https://apparel-uk.local:9002/yacceleratorstorefront
website.apparel-de.http=http://apparel-de.local:9001/yacceleratorstorefront
website.apparel-de.https=https://apparel-de.local:9002/yacceleratorstorefront
website.electronics.http=http://electronics.local:9001/yacceleratorstorefront
website.electronics.https=https://electronics.local:9002/yacceleratorstorefront
website.powertools.http=http://powertools.local:9001/yb2bacceleratorstorefront
website.powertools.https=https://powertools.local:9002/yb2bacceleratorstorefront
```

```
media.apparel-uk.http=http://apparel-uk.local:9001
media.apparel-uk.https=https://apparel-uk.local:9002
media.apparel-de.http=http://apparel-de.local:9001
media.apparel-de.https=https://apparel-de.local:9002
media.electronics.http=http://electronics.local:9001
media.electronics.https=https://electronics.local:9002
media.powertools.http=http://powertools.local:9001
media.powertools.https=https://powertools.local:9002
```

Setting Up Store Locator

If you are using a different domain, you need to generate API keys and configure the system for the Store Locator maps feature to work on the storefront. For more information, see the **Storefront API Key Configuration** section of [Store Locator Configuration](#).

Additional Storefront Configuration

This document describes how to access the Accelerator storefronts, set up email service, and set up the store locator.

This document is an appendix to the [Installing SAP Commerce Using Installer Recipes](#) document.

> ℹ **Note**
>
> This document uses the term *<HYBRIS_HOME>* to refer to the directory where you unzipped the SAP Commerce package.

Installation

The installation process is unique for each of the storefronts, however includes several common steps. For information on SAP Commerce general installation process, go to the [Installing and Upgrading SAP Commerce](#) document. For more specific information about each of the storefronts, see the links in the **Related Links** section.

Accessing the Accelerator Storefronts

To access the sample storefronts you need to add a localhost mapping to your computer's `hosts` file. The hosts file approach requires an extra setup step on your machine and it represents how storefronts are organized in terms of domain URLs in a production environment.

For more information, see [Just One Storefront](#).

Hosts File Approach

Add the following line to your `hosts` file. The location of the `hosts` file varies depending on your system.

> ℹ **Note**
>
> The system admin restricts access to this file, at least write access, so you may not have the necessary access rights to edit the `hosts` file. We recommend creating a copy of the `hosts` file, making your changes to the copied file, and substituting the old `hosts` file with the new one.

Storefront Name	Host name	Link to Storefront

Storefront Name	Host name	Link to Storefront
B2C/B2B	`127.0.0.1 apparel-uk.local apparel-de.local electronics.local powertools.local`	`http://apparel-uk.local:9001/yacceleratorstorefront` `http://apparel-de.local:9001/yacceleratorstorefront` `http://electronics.local:9001/yacceleratorstorefront` `http://powertools.local:9001/yacceleratorstorefront`
Financial Services	`127.0.0.1 financialservices.local`	`http://financialservices.local:9001/yacceleratorstorefront`
Telco	`127.0.0.1 telco.local`	`http://telco.local:9001/yacceleratorstorefront`

Site Parameter Approach

There's an alternative shortcut approach of using a *<site>* parameter. However, it only allows you to visit one site in the same browser session. When you visit a second site, you encounter session sharing issues. It's caused by the fact that your domain is the same and the application server doesn't provide you with a second fresh session. This approach isn't recommended but is available as a convenience feature. To use this approach, enter the following in your browser address bar:

Storefront Name	Site Parameter Approach Web site Address
B2C/B2B	`http://localhost:9001/yacceleratorstorefront?site=apparel-uk&clear=true` `http://localhost:9001/yacceleratorstorefront?site=apparel-de&clear=true` `http://localhost:9001/yacceleratorstorefront?site=electronics&clear=true` `http://localhost:9001/yacceleratorstorefront?site=powertools&clear=true`
Financial Services	`http://localhost:9001/yacceleratorstorefront?site=insurance&clear=true`
Telco	`http://localhost:9001/yacceleratorstorefront?site=telco&clear=true`

> ⓘ **Note**
>
> **Implementation Note**
>
> If it isn't possible to use the `hosts` file approach, consider creating a servlet filter and wrapping the `HttpServletRequest` object in a bespoke `HttpServletRequestWrapper` subclass that uses a bespoke `HttpSession` to internally segregate all session attributes by a site-id key. The filter sets up the request wrapper and initializes the current active site using the site-id parameter from the request or if not available from the session. This code isn't recommended for a production setup.

Additional Configuration

Setting Up Email

The MailUtils Utility from the Platform core extension is used to send emails. Typical configuration parameters to place in your *<HYBRIS_HOME>*/`config/local.properties` file are as follows:

```
mail.smtp.server=<your_mail_server>
mail.smtp.port=25
mail.smtp.user=<your_user>
mail.smtp.password=<your_users_password>
```

You need to have a mail server installed on your local machine or accessible on a shared network to receive emails.

Links and images in emails require a fully qualified path to resolve the resource correctly in the storefront. To set up email links to work correctly, configure the `UrlResolutionService` in your `<HYBRIS_HOME>`/`config/local.properties`. For more information on the `UrlResolutionService`, go to the [acceleratorservices Extension](#), section **Site Base URL Resolution Service**.

If you installed Accelerator on a remote server, you have to configure the following properties in the `<HYBRIS_HOME>`/`config/local.properties` file in accordance to the information in your `hosts` file:

Storefront Name	Email Info

B2C B2B	`website.apparel-uk.http=http://apparel-uk.local:9001/yacceleratorstorefront`
	`website.apparel-uk.https=https://apparel-uk.local:9002/yacceleratorstorefront`
	`website.apparel-de.http=http://apparel-de.local:9001/yacceleratorstorefront`
	`website.apparel-de.https=https://apparel-de.local:9002/yacceleratorstorefront`
	`website.electronics.http=http://electronics.local:9001/yacceleratorstorefront`
	`website.electronics.https=https://electronics.local:9002/yacceleratorstorefront`
	`website.powertools.http=http://powertools.local:9001/yacceleratorstorefront`
	`website.powertools.https=https://powertools.local:9002/yacceleratorstorefront`
	
	`media.apparel-uk.http=http://apparel-uk.local:9001`
	`media.apparel-uk.https=https://apparel-uk.local:9002`
	`media.apparel-de.http=http://apparel-de.local:9001`
	`media.apparel-de.https=https://apparel-de.local:9002`
	`media.electronics.http=http://electronics.local:9001`
	`media.electronics.https=https://electronics.local:9002`
	`media.powertools.http=http://powertools.local:9001`
	`media.powertools.https=https://powertools.local:9002`

Financial Services	`website.insurance.http=http://hostname:port/yacceleratorstorefront`
	`website.insurance.https=https://hostname:port/yacceleratorstorefront`
	
	`media.insurance.http=http://hostname:port`
	`media.insurance.https=https//hostname:port`

Telco	`website.telco.http=http://hostname:port/yacceleratorstorefront`
	`website.telco.https=https://hostname:port/yacceleratorstorefront`
	
	`media.telco.http=http://hostname:port`
	`media.telco.https=https//hostname:port`

Setting Up Store Locator

If you're using a different domain, then you need to generate API keys and configure the system for the Store Locator maps feature to work on the storefront. More information can be found in the [Store Locator Configuration](#), section **Storefront API Key Configuration**.

Related Information

[Installing and Upgrading SAP Commerce](#)

Accelerator for China Implementation Guide

The Accelerator for China enables you to easily build an omni-channel e-commerce solution. It has all the functionality and business tools necessary to create an engaging customer experience, improve conversion and simplify management. The Accelerator for China is built on SAP Commerce Accelerator and allows you to use most of the available features from other Accelerators.

Accelerator for China for B2C Commerce Quick Installation Guide Using Installer

This document guides you through the setup process of Accelerator for China for B2C commerce on your local machine. The system you install includes sample data for the demonstration storefronts.

Accelerator for China for B2B Commerce Quick Installation Guide Using Installer

This document guides you through the process of installing China-specific AddOns to the B2B Accelerator on your local machine. The system you install includes sample data for the demonstration storefronts.

Adding CMS Component into Order Details Page

You can use cell decorator to add additional CMS component into the order details page.

Migrating from JiaThis to the New Chinese Product Sharing Feature

Learn how to migrate from JiaThis service to the new Chinese Product Sharing in the B2C Accelerator.

Migrating to the New Accelerator for China and Related Function Module

The legacy Accelerator for China has been succeeded by the new Accelerator for China. Therefore, we highly recommend that you upgrade your system to the newest version in order to benefit from the most current features, and to enjoy continued support. The following documents provide reference about how to migrate a running legacy Accelerator for China and a working legacy Flash Buy Promotion module to the new ones.

Configuring Chinese Product Searching

You must configure Solr Search in order to use the Chinese Product Searching feature in the Accelerator for China.

Accelerator for China for B2C Commerce Quick Installation Guide Using Installer

This document guides you through the setup process of Accelerator for China for B2C commerce on your local machine. The system you install includes sample data for the demonstration storefronts.

The document is an appendix to the Installing SAP Commerce Using Installer Recipes document, which describes the process of installing the SAP Commerce, adding additional setup instructions for installing the Accelerator for China.

ⓘ **Note**

This document uses the term *{HYBRIS_HOME}* to refer to the directory where you unzipped the SAP Commerce package.

Download the SAP Commerce Package

Download the latest SAP Commerce release. For more details, see Download. The Accelerator for China for B2C commerce and all its dependent extensions are included in the package.

Install and Initialize

1. Complete the following steps from the Installing SAP Commerce Using Installer Recipes for the SAP Commerce:

- Review system requirements, which is described in the [Installing SAP Commerce Using Installer Recipes](#) document, section **System Requirements**.

- Download and unpack the package, which is described in the [Installing SAP Commerce Using Installer Recipes](#) document, section **Installing and Initializing SAP Commerce Using the Installer**.

2. Navigate to the *{HYBRIS_HOME}*\installer and open command prompt.

3. In the command prompt, run the `install -r b2c_china` command to set up the `localextensions.xml` file. Do not close the command prompt.

   By doing this, you enable the China-specific functions.

   → Tip

   You can navigate to the *{HYBRIS_HOME}*`\hybris\config` folder to make sure that the `localextensions.xml` file contains the following extensions:

```
extensions {

    extensionNames 'adaptivesearchsolr',
      'adaptivesearchbackoffice',
      'adaptivesearchsamplesaddon',
      'adaptivesearchwebservices',
      'commerceservicesbackoffice',
      'solrfacetsearchbackoffice',
      'solrserver',
      'yacceleratorbackoffice',
      'yacceleratorinitialdata',
      'yacceleratorfulfilmentprocess',
      'yacceleratorstorefront',
      'ycommercewebservices',
      'ycommercewebservicestest',

      'electronicsstore',

      'acceleratorwebservicesaddon',
      'orderselfserviceaddon',

      'customersupportbackoffice',
      'customerticketingaddon',
      'commerceorgsamplesaddon',

      'rulebuilderbackoffice',
      'couponbackoffice',
      'droolsruleengineservices',
      'couponfacades',
      'couponservices',
      'promotionenginesamplesaddon',

      'cmswebservices',
      'smarteditwebservices',
      'cmssmarteditwebservices',
      'permissionswebservices',
      'smarteditaddon',
      'cmssmartedit',
      'cmsbackoffice',
      'cmsoccaddon',
```

```
                'previewpersonalizationweb',
                'personalizationcmsweb',
                'personalizationsmartedit',
                'personalizationpromotionssmartedit',
                'personalizationsampledataaddon',
                'personalizationpromotionssampledataaddon',
                'personalizationpromotions',
                'personalizationpromotionsweb',
                'personalizationservicesbackoffice',
                'personalizationpromotionsbackoffice',
                'personalizationcmsbackoffice',
                'personalizationsearchbackoffice',
                'personalizationsearchsmartedit',
                'personalizationsearchweb',
                'personalizationsearchsamplesaddon',

                'textfieldconfiguratortemplatebackoffice',
                'textfieldconfiguratortemplateaddon',
                'assistedservicestorefront',
                'assistedservicewebservices',
                'assistedservicepromotionaddon',

                'pcmbackofficesamplesaddon',

                'chineseprofileaddon',
                'chineseprofileoccaddon',
                'chineselogisticaddon',
                'chineselogisticbackoffice',
                'chineselogisticoccaddon',

                'chinesepaymentaddon',
                'chinesepaymentoccaddon',
                'chinesepaymentmock',
                'chinesetaxinvoiceaddon',
                'chinesetaxinvoiceoccaddon',
                'chinesetaxinvoicebackoffice',
                'chinesepspalipaysamplesaddon',
                'chinesepspalipaysbackoffice',
                'chinesestoreaddon',
                'verticalnavigationaddon',

                'chineseaddressaddon',
                'chineseaddressoccaddon',
                'chineseaddressbackoffice',

                'chinesepspwechatpaymentaddon',
                'chinesepspwechatpaysamplesaddon',
                'chinesepspwechatpaysbackoffice',

                'consignmenttrackingaddon',
                'consignmenttrackingmock',
                'consignmenttrackingbackoffice',

                'notificationaddon',
```

```
            'customerinterestsaddon',
            'stocknotificationaddon',
            'chineseproductsharingaddon',

            'selectivecartaddon',

            'customercouponaddon',
            'customercouponsamplesaddon',
            'customercouponbackoffice',

            'timedaccesspromotionengineaddon',
            'timedaccesspromotionenginesamplesaddon',
            'timedaccesspromotionenginebackoffice',
            'timedaccesspromotionengineoccaddon',
            'messagecentercsoccaddon',
            'consignmenttrackingoccaddon',
            'customerinterestsoccaddon',
            'customercouponoccaddon',
            'notificationoccaddon',

            'outboundservices',
            'odata2webservices',
            'odata2webservicesfeaturetests',

            'kymaintegrationbackoffice'
        }

        addons {

            forStoreFronts('yacceleratorstorefront'){
                names 'chineseprofileaddon,chineselogisticaddon,chinesepaymentaddon,chinesetaxinvo
                template 'yacceleratorstorefront'
            }

            forStoreFronts('ycommercewebservices'){
                names 'acceleratorwebservicesaddon,messagecentercsoccaddon,consignmenttrackingocca
                template 'ycommercewebservices'
            }
        }

    }
```

4. Still in the command prompt, run the `install -r b2c_china initialize` command to initialize the system. Do not close the command prompt.

5. Upon success, run the `install -r b2c_china start` command to start the server.

6. To access the storefront of Accelerator for China for B2C commerce, go to `https://electronics.local:9002/yacceleratorstorefront/electronics/en/`.

   ℹ **Note**

   Before starting up the server, make sure you have already defined `127.0.0.1 electronics.local` inside your **hosts** file.

Figure: Storefront Homepage of Accelerator for China for B2C Commerce

ⅈ **Note**

You must configure a Baidu Map API Key in order to enable the [chinesestoreaddon AddOn](). For more information, refer to [Enabling Baidu Map Geo Service]().

Related Information

[Installing and Upgrading SAP Commerce]()
[Installing SAP Commerce Using Installer Recipes]()
[Enabling Baidu Map Geo Service]()

Accelerator for China for B2B Commerce Quick Installation Guide Using Installer

This document guides you through the process of installing China-specific AddOns to the B2B Accelerator on your local machine. The system you install includes sample data for the demonstration storefronts.

The document is an appendix to the [Installing SAP Commerce Using Installer Recipes]() document, which describes the process of installing the SAP Commerce, adding additional setup instructions for installing Accelerator for China for B2B Commerce.

> **ⅈ Note**
>
> - This document uses the term *{HYBRIS_HOME}* to refer to the directory where you unzipped the SAP Commerce package.
>
> - The China-specific AddOns enabled in the B2B Accelerator include [chineseaddressaddon AddOn]() and [chinesestoreaddon AddOn]().

Download the SAP Commerce Package

Download the latest SAP Commerce release. For more details, see [Download](). The Accelerator for China for B2B commerce and all its dependent extensions are included in the package.

Install and Initialize

1. Complete the following steps from the [Installing SAP Commerce Using Installer Recipes]() for the SAP Commerce:
   - Review system requirements, which is described in the [Installing SAP Commerce Using Installer Recipes]() document, section **System Requirements**.
   - Download and unpack the package, which is described in the [Installing SAP Commerce Using Installer Recipes]() document, section **Installing and Initializing SAP Commerce Using the Installer**.
2. Navigate to the *{HYBRIS_HOME}*\installer and open command prompt.
3. In the command prompt, run the `install -r b2b_china` command to set up the `localextensions.xml` file. Do not close the command prompt.

   By doing this, you enable the China-specific functions.

   > **→ Tip**
   >
   > You can navigate to the *{HYBRIS_HOME}*\hybris\config folder to make sure that the `localextensions.xml` file contains the following extensions:
   >
   > ```
   > extensions {
   >     extensionNames 'adaptivesearchsolr',
   >             'adaptivesearchbackoffice',
   >             'adaptivesearchwebservices',
   >             'adaptivesearchsamplesaddon',
   > ```

```
                'b2bcommercebackoffice',
                'solrfacetsearchbackoffice',

                'yacceleratorbackoffice',
                'yacceleratorinitialdata',
                'yacceleratorfulfilmentprocess',
                'ycommercewebservices',
                'ycommercewebservicestest',
                'orderselfserviceaddon',

                'powertoolsstore',
                'solrserver',

                'acceleratorwebservicesaddon',
                'chineseaddressaddon',
                'chineseaddressoccaddon',
                'chinesecommerceorgaddressaddon',
                'chineseaddressbackoffice',
                'b2bacceleratoraddon',
                'commerceorgaddon',
                'commerceorgsamplesaddon',

                'customersupportbackoffice',
                'customerticketingaddon',

        'rulebuilderbackoffice',
        'couponbackoffice',
        'droolsruleengineservices',
        'couponfacades',
        'couponservices',
        'promotionenginesamplesaddon',

                'textfieldconfiguratortemplatebackoffice',
                'textfieldconfiguratortemplateaddon',

                'cmswebservices',
                'smarteditwebservices',
                'cmssmarteditwebservices',
                'permissionswebservices',
                'smarteditaddon',
                'cmssmartedit',
                'cmsbackoffice',
                'assistedservicestorefront',
                'assistedservicewebservices',
                'cmsoccaddon',

                'previewpersonalizationweb',
                'personalizationcmsweb',
                'personalizationsmartedit',
                'personalizationpromotionssmartedit',
                'personalizationsampledataaddon',
                'personalizationpromotionssampledataaddon',
                'personalizationpromotions',
                'personalizationpromotionsweb',
                'personalizationservicesbackoffice',
```

```
                    'personalizationpromotionsbackoffice',
                    'personalizationcmsbackoffice',
                    'personalizationsearchbackoffice',
                    'personalizationsearchsmartedit',
                    'personalizationsearchweb',
                    'personalizationsearchsamplesaddon',

           'chinesestoreaddon',

                    'consignmenttrackingaddon',
                    'consignmenttrackingmock',
                    'consignmenttrackingbackoffice',
                    'consignmenttrackingoccaddon',

                    'pcmbackofficesamplesaddon',

                    'outboundservices',
                    'odata2webservices',
                    'odata2webservicesfeaturetests',

                    'kymaintegrationbackoffice',

                    'yb2bacceleratorstorefront'
        }

        addons {
            forStoreFronts('yb2bacceleratorstorefront') {
                names('chineseaddressaddon', 'chinesecommerceorgaddressaddon', 'b2bacceleratoraddo
                        'commerceorgsamplesaddon', 'promotionenginesamplesaddon', 'textfieldconfig
                        'assistedservicestorefront', 'customerticketingaddon', 'orderselfservicea
                        'adaptivesearchsamplesaddon', 'personalizationsearchsamplesaddon', 'pcmba
                template 'yacceleratorstorefront'
            }
            forStoreFronts('ycommercewebservices') {
                names 'acceleratorwebservicesaddon', 'consignmenttrackingoccaddon', 'cmsoccaddon'
                template 'ycommercewebservices'
            }
        }

    }
```

4. Still in the command prompt, run the `install -r b2b_china initialize` command to initialize the system. Do not close the command prompt.

5. Upon success, run the `install -r b2b_china start` command to start the server.

6. To access the storefront of Accelerator for China for B2B commerce, go to `https://powertools.local:9002/yb2bacceleratorstorefront/powertools/en`.

> ℹ **Note**
> Before starting up the server, make sure you have already defined `127.0.0.1 powertools.local` inside your **hosts** file.

Figure: Storefront Homepage of Accelerator for China for B2B Commerce

ⓘ **Note**

You must configure a Baidu Map API Key in order to enable the chinesestoreaddon AddOn. For more information, refer to Enabling Baidu Map Geo Service.

Related Information

Installing and Upgrading SAP Commerce
Installing SAP Commerce Using Installer Recipes

Adding CMS Component into Order Details Page

You can use cell decorator to add additional CMS component into the order details page.

Overview

The order details page consists of multiple CMS components. In order to enrich the page with localized Chinese information, the Accelerator for China needs to insert additional components into the page. However, due to the design nature of the order details page, it is not easy to add any additional components in between existing ones. To solve the problem, we employ the Cell Decorator from ImpEx with a custom parsing pattern, which allows us to insert our components freely into the order details page.

Adding CMS Component into Order Details Page

In the Accelerator for China, both the chineselogisticaddon AddOn and the chinesetaxinvoiceaddon AddOn use cell decorator to insert custom components into the order details page.

The following demonstration instructs on how to add CMS component into the order details page by taking the chinesetaxinvoiceaddon AddOn as an example:

1. Create a new component.

   ⇶ **Sample Code**

   ```
   $contentCatalog=electronicsContentCatalog
   $contentCV=catalogVersion(CatalogVersion.catalog(Catalog.id[default=$contentCatalog]),CatalogV
   $jarResourceCms=jar:de.hybris.platform.chinesetaxinvoiceaddon.constants&/chinesetaxinvoiceaddo

   INSERT_UPDATE JspIncludeComponent;$contentCV[unique=true];uid[unique=true];name;page;actions(
   ;;AccountOrderDetailsTaxInvoiceComponent;Account Order Details Tax Invoice Component;/WEB-INF,
   ```

2. Update the order details page content slot using cell decorator.

   ⇶ **Sample Code**

   ```
   UPDATE ContentSlot;$contentCV[unique=true];uid[unique=true];cmsComponents(uid,$contentCV)[cel
   ;;BodyContent-orderdetail;AccountOrderDetailsItemsComponent,AccountOrderDetailsTaxInvoiceCompo
   ```

   Note that the `cellDecorator` attribute is used in the statement, and the attribute value is the full-packaged name of the cell decorator class.

3. Log in to cmscockpit to verify the change after the update.
   - Default URL: `http://localhost:9001/cmscokpit`
   - Username/password: use the admin user and associated password.

4. Use the same method to add more CMS components into the order details page as necessary.

ⅈ **Note**

- If you do not use the cell decorator when adding additional components, the existing components in the order detail content slot could be corrupted.

- You may use the existing `ChineseLogisticCellDecorator` class as a template to create your custom decorator class.

Migrating from JiaThis to the New Chinese Product Sharing Feature

Learn how to migrate from JiaThis service to the new Chinese Product Sharing in the B2C Accelerator.

Prerequisites

Download the latest version of SAP Commerce. For more details, see Download.

Once you have downloaded SAP Commerce, extract the SAP Commerce ZIP file in *<COMMON_FOLDER>*.

Installing B2C Accelerator

Refer to B2C/B2B Accelerator Quick Installation Guide to set up a B2C Accelerator on your local machine.

Uninstalling the `chinesesnsjiathisaddon` AddOn

Proceed as follows:

Call the `ant addonuninstall<Enter>` command. This operation detaches the dependency from your storefront to the `chinesesnsjiathisaddon` AddOn.

```
ant addonuninstall -Daddonnames="chinesesnsjiathisaddon"  -DaddonStorefront.yacceleratorstorefront="ya
```

Installing the `chineseproductsharingaddon` AddOn

1. Add the `chineseproductsharingaddon` AddOn to your `localextensions.xml` file.

   ```
   <extension dir="${HYBRIS_BIN_DIR}/modules/china-accelerator-addons/chineseproductsharingaddon"/>
   ```

2. Call the `ant addoninstall<Enter>` command. This generates the correct properties in the `project.properties` file of the `chineseproductsharingaddon` AddOn and adds a dependency from your storefront to the `chineseproductsharingaddon` AddOn.

   ```
   ant addoninstall -Daddonnames="chineseproductsharingaddon"  -DaddonStorefront.yacceleratorstoref
   ```

ⅈ **Note**

If you initialized your system before installing the `chineseproductsharingaddon` AddOn, you must run **ant clean all<Enter>** and update the system.

Checking Installation

1. Log in to the B2C Accelerator.

2. Select a product and go to the **Product Details** page.

3. The product sharing icon displays as expected.

Related Information

[chineseproductsharingaddon AddOn](#)

Migrating to the New Accelerator for China and Related Function Module

The legacy Accelerator for China has been succeeded by the new Accelerator for China. Therefore, we highly recommend that you upgrade your system to the newest version in order to benefit from the most current features, and to enjoy continued support. The following documents provide reference about how to migrate a running legacy Accelerator for China and a working legacy Flash Buy Promotion module to the new ones.

Related Information

[Migrating to the New Accelerator for China](#)
[Migrating to the New Flash Buy Promotion Module](#)
[Data and Spring Beans Mappings for Migrating to the New Accelerator for China](#)

Migrating to the New Accelerator for China

Follow the instructions in this document to migrate your legacy Accelerator for China to the new Accelerator for China when needed.

Prerequisites

1. You have downloaded the latest SAP Commerce package, and extracted it to a specified directory. For more details, see [Download](#).

2. Your legacy Accelerator for China is working properly.

Context

You already have a running legacy Accelerator for China, but would like to migrate it to the new system.

Procedure

1. Export data from the legacy Accelerator for China.

2. Install the new Accelerator for China. Refer to [Accelerator for China for B2C Commerce Quick Installation Guide Using Installer](#) for instructions.

3. Import the data and migrate Spring beans to the new Accelerator for China. Refer to the [Data and Spring Beans Mappings for Migrating to the New Accelerator for China](#) for data mapping details.

4. Verify the migration.

   > ⓘ **Note**
   > For general SAP Commerce upgrade guides, refer to [Upgrading SAP Commerce](#).

Related Information

[Functionality Mapping between Legacy Accelerator for China and New Accelerator for China](#)
[Standard Functions of Legacy Accelerator for China](#)

Migrating to the New Flash Buy Promotion Module

Follow the instructions in this document to migrate your legacy Flash Buy Promotion module to the new module when needed.

Prerequisites

Before you migrate the legacy Flash Buy module, make sure there are no running Flash Buy promotions in the system.

Context

Legacy Flash Buy Module: this module is built on top of the legacy promotion module. It introduces a new promotion type called Flash Buy promotion by extending the *<Fixed price promotion>* with some new attributes.

New Flash Buy Module: this module is built on top of the Promotion Engine. It leverages the Promotion Engine and coupon module to implement the Flash Buy related functionality. A new coupon type called Flash Buy coupon is introduced.

Therefore, due to the changes in architecture, you need to modify or drop some data during the migration.

Procedure

1. Install the new Flash Buy module by installing the [timedaccesspromotionengineaddon AddOn](#).

2. Migrate the basic attributes in Flash Buy promotion (the attributes inherited from *<Fixed price promotion>*) by referring to [Migrating to the Promotion Engine](#).

3. Create a Flash Buy coupon for every Flash Buy promotion and bind them to the promotions. Refer to [Creating a Flash Buy Coupon](#) for instructions. Fulfill the attributes in Flash Buy coupon as following:

   a. Provide a proper code, name and active status for the Flash Buy coupon.

   b. Fulfill the following attributes according to the attributes of the corresponding Flash Buy promotion in the legacy Flash Buy module.

Attribute Name in Legacy Flash Buy Module	Attribute Name in New Flash Buy Module
`FlashbuyPromotion.availableUnitsPerProduct`	`flashbuyCoupon.maxProductQuantityPerOrde` `flashbuyCoupon.maximumTotalRedemptions`
`FlashbuyPromotion.availableUnitsPerUserAndProduct`	`flashbuyCoupon.maxProductQuantityPerOrde` `flashbuyCoupon.maximumRedemptionsPerCust`

    c. Select the corresponding Flash Buy promotion rule to bind the promotion rule to the Flash Buy coupon.

ⅈ Note

Some attributes/models of the legacy Flash Buy module are not mentioned in the migration steps because they are not used any more or they are covered in the new Flash Buy module. For example, `PromotionAllocation` is covered by the coupon module since the coupon module will record the redemptions.

4. Migrate all the Spring beans according to the following table:

Legacy
de.hybris.platform.timedaccesspromotionsservices.dao.FlashbuyPromotionDao
de.hybris.platform.timedaccesspromotionsservices.service.FlashbuyPromotionService
de.hybris.platform.timedaccesspromotionsservices.cms.ChinaCMSPageService
de.hybris.platform.timedaccesspromotionsservices.interceptors.PromotionCodeMatcherPrepareInterce
de.hybris.platform.timedaccesspromotionsservices.order.impl.FlashbuyPlaceOrderMethodHook
de.hybris.platform.timedaccesspromotionsfacades.facades.FlashbuyPromotionFacade
de.hybris.platform.timedaccesspromotionsfacades.order.ExtendedCartFacade
de.hybris.platform.timedaccesspromotionsfacades.order.hook.impl.FlashbuyCommerceAddToCartMethodH
de.hybris.platform.timedaccesspromotionsfacades.product.converters.populator.FlashbuyPromotionPo
de.hybris.platform.timedaccesspromotionsfacades.product.converters.populator.SplitProductPromoti
`<bean id="defaultPromotionCodeMatcherIdGenerator" class="de.hybris.platform.servicelayer.keygenerator.impl.PersistentKeyGenerator">`

5. Verify the migration.

ⅈ Note

For general SAP Commerce upgrade guides, refer to [Upgrading SAP Commerce](#).

Data and Spring Beans Mappings for Migrating to the New Accelerator for China

This document applies when you already have a running legacy Accelerator for China, but would like to migrate it to the new Accelerator for China. To do so, you need to migrate the old data and Spring beans to the new system by referring to the following mapping tables.

Data Mapping

Extension Name in Legacy Accelerator for China	Attribute Name in Legacy Accelerator for China	Attribute Name in New Acce
chinaacceleratorservices	Address.city	Address.city
	Address.cityDistrict	Address.cityDistrict

Extension Name in Legacy Accelerator for China	Attribute Name in Legacy Accelerator for China	Attribute Name in New Acce
	`Address.firstname` `Address.lastname`	`Address.fullname`
	`City.code`	`City.isocode`
	`City.name`	`City.name`
	`City.active`	`City.active`
	`City.region`	`City.region`
	`District.code`	`District.isocode`
	`District.name`	`District.name`
	`District.active`	`District.active`
	`District.city`	`District.city`
	`Customer.mobileNumber`	`Customer.mobileNumber`
	`InvoiceCategory`	`InvoiceCategory`
	`InvoiceTitle`	`InvoiceRecipientType`
	`AbstractOrder.Invoice`	`AbstractOrder.TaxInvo`
	`Invoice.category`	`TaxInvoice.category`
	`Invoice.title`	`TaxInvoice.recipientT`
	`Invoice.invoicedName`	`TaxInvoice.recipient`
	`ServiceType`	`ServiceType`
	`AlipayPaymentInfo.outTradeNo`	`ChinesePaymentInfo.or`
	`AlipayPaymentInfo.serviceType`	`ChinesePaymentInfo.se`
	`AlipayPaymentInfo.isToSupplyReturnUrl`	No longer in use
	Does not exist	`ChinesePaymentInfo.pa`
	`AbstractOrder.paymentInfo`	`AbstractOrder.Payment`
	`AbstractOrder.deliveryTimeslot`	`AbstractOrder.delivery`
	`DeliveryTimeSlot.code`	`DeliveryTimeSlot.code`

Extension Name in Legacy Accelerator for China	Attribute Name in Legacy Accelerator for China	Attribute Name in New Acce
	Does not exist	`DeliveryTimeSlot.name`
	`Zone.region`	`Region.zone`
	`Zone.city`	`City.zone`
	`Zone.district`	`District.zone`
Alipay	`PaymentTransactionType`	`PaymentTransactionTyp`
	`AlipayTransactionStatus`	`TransactionStatus`
	`OrderStatus`	`OrderStatus`
	`AlipayPaymentTransactionEntry.tradeAlipayNo`	`AlipayPaymentTransact.`
	`AlipayPaymentTransactionEntry.tradeStatus`	`AlipayPaymentTransact.` `AlipayPaymentTransact.`
	`AlipayPaymentTransactionEntry.buyerEmail`	`AlipayPaymentTransact.`
	`AlipayPaymentTransactionEntry.buyerId`	`AlipayPaymentTransact.`
	`AlipayPaymentTransactionEntry.refundStatus`	`AlipayPaymentTransact.` `AlipayPaymentTransact.`
	`AlipayPaymentTransactionEntry.flag_trade_locked`	`AlipayPaymentTransact.`
	`AlipayPaymentTransactionEntry.to_seller_fee`	`AlipayPaymentTransact.`
	`AlipayPaymentTransactionEntry.additional_trade_status`	`PaymentTransactionEnt`
	`AlipayPaymentTransactionEntry.useCoupon`	`AlipayPaymentTransact.`
	`AlipayPaymentTransactionEntry.paymentType`	No longer in use
	`AlipayPaymentTransactionEntry.notifyType`	No longer in use
	`AlipayPaymentTransactionEntry.notifyId`	No longer in use
	`AlipayPaymentTransactionEntry.body`	No longer in use

Extension Name in Legacy Accelerator for China	Attribute Name in Legacy Accelerator for China	Attribute Name in New Acce
	`AlipayPaymentTransactionEntry.gmtCreate`	No longer in use
	`AlipayPaymentTransactionEntry.gmtPayment`	No longer in use
	`AlipayPaymentTransactionEntry.gmtClose`	No longer in use
	`AlipayPaymentTransactionEntry.gmtRefund`	No longer in use
	`AlipayPaymentTransactionEntry.outChannelType`	No longer in use
	`AlipayPaymentTransactionEntry.outChannelAmount`	No longer in use
	`AlipayPaymentTransactionEntry.gmt_last_modified_time`	No longer in use
	`AlipayPaymentTransactionEntry.operator_role`	No longer in use
	`AlipayPaymentTransactionEntry.time_out`	No longer in use
	`AlipayPaymentTransactionEntry.time_out_type`	No longer in use
	`AlipayPaymentTransactionEntry.to_buyer_fee`	No longer in use
	`AlipayPaymentTransactionEntry.refund_agent_pay_fee`	No longer in use
	`AlipayPaymentTransactionEntry.refund_cash_fee`	No longer in use
	`AlipayPaymentTransactionEntry.refund_coupon_fee`	No longer in use
	`AlipayPaymentTransactionEntry.refund_fee`	No longer in use
	`AlipayPaymentTransactionEntry.refund_flow_type`	No longer in use
	`AlipayPaymentTransactionEntry.refund_id`	No longer in use
	`AlipayPaymentTransactionEntry.batch_no`	No longer in use
	`AlipayPaymentTransactionEntry.refund_reason`	No longer in use
	`AlipayPaymentTransaction.url`	`AlipayPaymentTransact`
	`AlipayPaymentTransaction.latestTransactionType`	No longer in use
	`AlipayPaymentTransaction.latestTradeStatus`	No longer in use
	`AlipayPaymentTransaction.latestRefundStatus`	No longer in use
	`AlipayPaymentTransaction.errorStatus`	No longer in use
	`AlipayPaymentTransaction.errorStatusTimestamp`	No longer in use
	`AlipayPaymentTransaction.refundErrorStatus`	No longer in use
	`AlipayPaymentTransaction.refundErrorTimestamp`	No longer in use
	`AbstractOrder.transactionInitiateDate`	No longer in use

Spring Beans Mapping

Legacy Module	Legacy
`chinaacceleratorservices`	`de.hybris.platform.chinaaccelerator.services.location.daos.DistrictDao`
	`de.hybris.platform.chinaaccelerator.services.location.daos.CityDao`

Legacy Module	Legacy
	`de.hybris.platform.chinaaccelerator.services.location.DistrictService`
	`de.hybris.platform.chinaaccelerator.services.location.CityService`
	`de.hybris.platform.chinaaccelerator.services.location.RegionService`
	`de.hybris.platform.chinaaccelerator.facades.populators.DistrictPopulator`
	`de.hybris.platform.chinaaccelerator.facades.populators.CityPopulator`
	`de.hybris.platform.chinaaccelerator.facades.populators.AddressPopulator`
	`de.hybris.platform.chinaaccelerator.facades.populators.ChinaAddressReversePo`
	`de.hybris.platform.chinaaccelerator.facades.location.CityFacade`
	`de.hybris.platform.chinaaccelerator.facades.location.DistrictFacade`
	`de.hybris.platform.chinaaccelerator.facades.location.RegionFacade`
	`de.hybris.platform.chinaaccelerator.services.order.daos.ChinaZoneDeliveryMod`
	`de.hybris.platform.chinaaccelerator.services.delivery.impl.ChinaDeliveryServ`
	`de.hybris.platform.chinaaccelerator.services.order.strategies.ChinaFindDeliv`
	`de.hybris.platform.chinaaccelerator.facades.user.impl.ChinaUserFacade`
	`de.hybris.platform.chinaaccelerator.facades.populators.EnhancedProductDescri`
	`de.hybris.platform.chinaaccelerator.facades.populators.InvoicePopulator`
	`de.hybris.platform.chinaaccelerator.facades.populators.ChinaCartPopulator`

Legacy Module	Legacy
	`de.hybris.platform.chinaaccelerator.facades.populators.ChinaOrderPopulator`
	`de.hybris.platform.chinaaccelerator.services.customer.impl.DefaultCustomerSe`
	`de.hybris.platform.chinaaccelerator.services.customer.daos.impl.DefaultCusto`
	`de.hybris.platform.chinaaccelerator.services.customer.impl.CustomerMobileNum`
	`de.hybris.platform.chinaaccelerator.facades.customer.impl.DefaultExtendedCus`
	`de.hybris.platform.chinaaccelerator.facades.populators.ExtendedCustomerPopul`
	`de.hybris.platform.chinaaccelerator.facades.email.OrderNotificationEmailCont`
	`de.hybris.platform.chinaaccelerator.facades.order.impl.ChinaOrderFacadeImpl`
	`de.hybris.platform.chinaaccelerator.facades.checkout.impl.AlipayCheckoutFaca`
	`de.hybris.platform.chinaaccelerator.facades.converters.AlipayPaymentInfoConv`
	`de.hybris.platform.chinaaccelerator.services.order.impl.ChinaOrderServiceImp`
Alipay	`de.hybris.platform.chinaaccelerator.alipay.service.impl.DefaultAlipayPayment`
	`de.hybris.platform.chinaaccelerator.alipay.service.impl.AlipayNotifyServiceI`
	`de.hybris.platform.chinaaccelerator.alipay.order.dao.impl.AlipayPaymentTrans`
	`de.hybris.platform.chinaaccelerator.alipay.order.dao.impl.AlipayPaymentTrans`
	`de.hybris.platform.chinaaccelerator.alipay.data.converter.AlipayPaymentTrans`
	`de.hybris.platform.chinaaccelerator.alipay.data.converter.AlipayPaymentTrans`
	`de.hybris.platform.chinaaccelerator.alipay.order.strategies.AlipaySubmitOrde`
	`de.hybris.platform.chinaaccelerator.alipay.data.converter.AlipayRequestDataC`
	`de.hybris.platform.chinaaccelerator.alipay.data.AlipayConfiguration`
	`de.hybris.platform.chinaaccelerator.alipay.util.AlipayService`
	`de.hybris.platform.chinaaccelerator.alipay.order.PrefixablePersistentKeyGene`

ⅰ **Note**

The legacy Accelerator for China is built on top of the standard B2C Accelerator. The tables above only contain the attributes and Spring beans introduced by the legacy Accelerator for China.

Functionality Mapping between Legacy Accelerator for China and New Accelerator for China

This document intends to provide a reference for migrating from legacy Accelerator for China to the new Accelerator for China.

Overview

Storefront UI

The new Accelerator for China supports RESPONSIVE UI experience and the legacy one supports DESKTOP UI experience. So, the storefront UI changes a lot.

Architecture

The new Accelerator for China is implemented by following the AddOn concept to enhance extensibility, which means restructured architecture design, and not backward compatible.

Functionality Mapping

Please see the standard function list of the legacy Accelerator for China in [Standard Functions of Legacy Accelerator for China](#).

Functional Area	Feature	Description	Replacement in new Accelerator for China	Remarks
Storefront Templates	Templates	Storefront rendering and corresponding functions		
Merchandising	Product carousel banners	The area to display vertical and horizontal product carousels as merchandising content.	`verticalnavigationaddon`	
Product Display	Social sharing links (JiaThis)	The ability to post a product link to popular Chinese social networks.	`chineseproductsharingaddon`	We do not use "JiaThis" any more. Instead, a QR code will be generated for sharing a product.
Checkout	Multi-step checkout	The checkout flow that allows customers to be guided step by step through the checkout process. This flow is the standard in the desktop storefront.	`chinesepaymentaddon` & `chinesetaxinvoiceaddon` & `chineselogisticaddon`	The checkout steps are changed.
	Saved delivery addresses	Support saving and reusing delivery addresses from customer account.	template & `chineseaddressaddon`	
	Payment via Alipay	The ability to pay directly via Alipay.	`chinesepspalipayservices`	

Functional Area	Feature	Description	Replacement in new Accelerator for China	Remarks
	Order confirmation page	The page that summarizes the details of the placed order. Order confirmation contains a link to Alipay to support an 'order now, pay later' scenario.	`chinesepaymentaddon` & `chinesepspalipayservices`	
Hosted Payment	Hosted payment feature	Standard integration to Alipay as a hosted Payment Service Provider. Alipay takes responsibility for taking the payment details of the customer so the merchant is relieved of the security risk of handling payment details. Customers must be redirected to the Payment Service Provider's website in order to provide their payment details. The experience of the customer is seamlessly handled as part of the checkout flow. Hosted payment is only available as part of the checkout flow.	`chinesepaymentaddon` & `chinesepspalipayservices`	
Customer Account	Customer account login	The ability to log into a customer account.	template & `chineseprofileaddon`	
	Update profile details	The ability for customers to update their profile details.	template & `chineseprofileaddon`	
	Manage address book	Support adding, editing, removal, and setting default address.	template & `chineseaddressaddon`	
	View order status	The ability to view the status of current orders, including order placed, order paid, order shipped, and order delivered.	template & `chineseaddressaddon` & `chinesetaxinvoiceaddon`	
Store Finder	Find cities with stores	The ability to select a city on the interactive China country map.	template & `chinesestoreaddon`	

Functional Area	Feature	Description	Replacement in new Accelerator for China	Remarks
	Find stores by selecting a city	The ability to select a store on the interactive city map.	template & `chinesestoreaddon`	
	Show store results on a map	Display of store results on a map and as a list, both of which are interactive to show store details.	template & `chinesestoreaddon`	
	Integrated maps service	Integrated with Baidu maps to provide map functionality.	`chinesestoreaddon`	
Flash Buy	Flash Buy promotion	The ability to manage Flash Buy promotion in Backoffice and allow customers to buy the products at the Flash Buy price.	`timedaccesspromotionengineaddon`	The new Flash Buy feature is based on the new Promotion Engine.

Extension Mapping

Extension Name in Legacy Accelerator for China	Extension Name (s) in new Accelerator for China	Remarks
`alipay`	`chinesepspalipayservices` `chinesepspalipaysamplesaddon` `chinesepspalipaymock`	
`timedaccesspromotionsservices`	`timedaccesspromotionengineservices`	After upgrading to the new Flash Buy module, the Flash Buy promotion data in the legacy Accelerator for China can still work, except that the data can not be viewed, modified or removed as the new version Backoffice has different nodes from the old one.
`chinaacceleratorservices`	`chinesepaymentservices` `chineselogisticservices` `chinesetaxinvoiceservices` `chineseaddressservices` `chineseprofileservices`	As the same model is used, no action is needed for the `chineseprofileservices` extension.
`alipaymentbackoffice`	`chinesepspalipaysbackoffice`	No data migration is needed for Backoffice.

Extension Name in Legacy Accelerator for China	Extension Name (s) in new Accelerator for China	Remarks
chinaacceleratorbackoffice	- chineselogisticbackoffice - chinesetaxinvoicebackoffice - chineseaddressbackoffice - chineseprofilebackoffice	No data migration is needed for Backoffice.
chinaacceleratorfacades	- chinesepaymentfacades - chineselogisticfacades - chinesetaxinvoicefacades - chineseaddressfacades - chineseprofilefacades	No data migration is needed for facades.
chinacheckoutaddon	- chinesepaymentaddon - chineselogisticaddon - chinesetaxinvoiceaddon	No data migration is needed for the front end.
chinastoreelectronics	electronicsstore (template)	Sample data, no need to migrate data.
timedaccesspromotionsbackoffice	timedaccesspromotionenginebackoffice	No data migration is needed for Backoffice.
timedaccesspromotionsfacades	timedaccesspromotionenginefacades	No data migration is needed for facades.
timedaccesspromotionsserviceshmc	timedaccesspromotionenginebackoffice	Provide the corresponding Backoffice extension in the new Accelerator for China.
timedaccesspromotionsstorefront	timedaccesspromotionengineaddon	No data migration is needed for the front end.
ychinaacceleratorstorefront	- chineseaddressaddon - chineseproductsharingaddon - chineseprofileaddon - chinesestoreaddon - verticalnavigationaddon	No data migration is needed for the front end.

Standard Functions of Legacy Accelerator for China

This document provides a list of the high-level storefront features supported by the legacy Accelerator for China.

Standard Function List

Functional Area	Feature	Description
General Storefront Capabilities	Page header cart summary	Summarized total value the customers cart, available on every page.
	Mini cart with merchandising banner	Summarized list of the contents of the customer cart, available on every page.
	Page header menu navigation	Content-managed menus for selecting product categories and content pages.
	SEO-friendly URL structure	URLs are optimized to improve search engine rankings for pages.
	SEO-friendly page metadata (title, description and keywords)	Page contents are optimized with meta data to improve search engine rankings for pages.
Merchandising	Homepage	Example homepage for Electronics storefronts.
	Landing pages	Content managed pages for displaying customer-facing content and merchandising.
	Content slots on Product Catalog pages	Area to display merchandising content on product catalog pages.
	Image banners	Area to display image banners as merchandising content.
	Image banner carousels	Area to display image banner carousels as merchandising content.
	Featured product banners	Area to feature a product as merchandising content.
	Featured category banners	Area to display feature a category as merchandising content.
	Product carousel banners	Area to display vertical and horizontal product carousels as merchandising content.
	Page Header merchandised links	Content management of links on the page header.
	Merchandising product relationships	Support for cross-sell and up-sell product relationships for merchandising purposes.
	Keyword fast links	Keywords can be set up for all merchandising components to allow for quick and precise navigation.
	Behavioral targeting	Support for targeting customers and groups of customers with content based on rules.
Product Search	Solr-based product search	Product catalog search via the open source Apache Solr application.
	Search relevance algorithm with product attribute relevance boosting	Method to boost the relevance ranking of key product attributes in list of product search matches.

Functional Area	Feature	Description
	Search term stemming and trimming	Support for converting pluralized words to their base form for better matching, for example: "cameras" = camera, "skiing" = ski.
	Keyword Search	Customers can search across all attributes, such as category, product name, manufacturer code, and more. This functionality incorporates natural language to deliver precise results, and adapts for misspellings, typing errors, and compound words.
	Keyword redirects	Merchants can define keywords that redirect shoppers to a specific landing page - product page, basket, micro-site, etc. - when the term is searched.
	Keyword Autocomplete	Gives customers suggestions for their search terms while typing keywords, so they need less time to enter a search query and are guided towards searches that return relevant results.
	Stop words	Automatically identifies filler words in a text search and ignores them when processing search results.
	Parametric search	If there are no results for the search item requested, the search engine will provide a synonym search.
	Spelling suggestions	Customers are given spelling suggestions so they can find relevant products when the correct spelling is unknown or a keyword is accidentally misspelled.
	Category navigation	Customers can choose a product category from the top navigation panel.
	Faceted browsing	Users can navigate large catalogs by choosing different categories. Results can be narrowed and broadened by criteria such as price, brand, product type, color, size, material, and so on.
	Search result page navigation	Customers can navigate through paginated product results using Next Page and Previous Page options.
	Sort search results	Customers can sort search results based on relevancy, price, name and products that are rated highly by other customers.
	Breadcrumbs	This feature allows customers to view the previous page in their navigation session.
Catalog Navigation	Support for category-specific landing pages	Ability to create content pages based on selected product categories to contain merchandising content.
	Breadcrumb-based navigation of selected facets	Ability to navigate the product catalog using the breadcrumb bar.
	Total product result count display	Display of the total product result count.
	Category tree navigation	Category navigation area is included on landing and search results pages in the left area of the page.
	Faceted product refinement	Ability to navigate the product catalog by selecting individual facets of products.
	Multi-select facets	Support for selecting multiple facet values for a particular facet of the product. For example, selecting **red** and **white** from the color facet.
	Ranged facets	Support for facets denoting a range, such as a price range.
	Show/hide facets	Ability to hide or show facets.

Functional Area	Feature	Description
	Show more/less facet values	Ability to expand the list of displayed facets.
	Facet value result counts	Display of the number of matching product results for an individual facet value.
	Product sort by relevance	Support for sorting product results by a relevance algorithm.
	Product sort by review rating	Support for sorting product results by their review rating.
	Product sort by name (ascending, descending)	Support for alphabetical sort of products by name.
	Product sort by price (high, low)	Support for sorting products by price.
	Paginated product results	Paginated display of product results with pagination controls.
	Show all product result with threshold limit	Ability to view product results as one page, restricted to product result sets smaller than a specified threshold.
	Grid-based product result display	Display of products in a 5 x 4 grid.
	Site-wide product result layout selection	Support for setting default product result layout mode by site.
	Category-level product result layout selection	Support for setting default product result layout mode by category.
	Product results include selected product attribute display	Ability to display selected facets on product results.
	Deep-links to refined product catalog pages	Support for deep links to any page of product results.
	Configurable **No Results** page	Ability to display custom content on the **No Results** page.
Product Display	Product image display	Display of product imagery.
	Scrollable product image gallery	Ability to view multiple products images from a scrollable list.
	Product zoom lightbox with scrollable product image gallery	Ability to view enlarged imagery with scrollable image gallery.

Functional Area	Feature	Description
	Read product reviews	Support for displaying product reviews.
	Submit product reviews (for moderation)	Ability to submit reviews for approval.
	View detailed product attributes	Support for extended product details.
	Stock Availability details	Support for display of product availability.
	Social sharing links (JiaThis)	Ability to post a product link to popular Chinese social networks.
	Cross-sell merchandised product zone	Support for displaying merchandised products with a cross-sell relationship.
	Up-sell merchandised product zone	Support for displaying merchandised products with an up-sell relationship.
	Promotional messaging	Display of messages from associated promotions.
	Tiered Pricing	Storefront displays tiered pricing where available.
Cart	Cart identification for call center pickup	Ability to identify shopping cart to call center agent.
	Quantity update	Support for modifying the quantity of products in the cart.
	Line removal	Support for removing a line from the cart.
	Continue shopping link	Ability to return to the last viewed product catalog page.
	Merchandising slots	Support for display of merchandising content on the cart page.
	Display of order totals including sales tax	Display of summarized order costs.
	Display of promotional eligibility	Display of information about a customers promotional eligibility.
	Display of received promotions	Display of information about promotions received by the customer.
	Configurable Empty Cart page	Ability to display custom content on the **Empty Cart** page.
Checkout	Secure access via HTTPS	Support for secure access to checkout.
	Customer Registration	Support for creating a customer account when checking out.

Functional Area	Feature	Description
	Customer login	Support for logging into the customer account when checking out.
	Content slots	Ability to display helpful content to the customer as part of checkout.
	Multi-step checkout	Checkout flow that allows customers to be guided step-by-step through the checkout process. This flow is the standard in the desktop storefront.
	Saved delivery addresses	Support for saving and reusing delivery addresses from customer account.
	Terms and conditions checkbox	Ability to mandate customers to agree to terms and conditions in the checkout.
	Review order details	Ability to review details of order before placement.
	Payment via Alipay	Ability to pay directly via Alipay.
	Delivery method based on Delivery Address	Ability to constrain delivery methods to specific territories.
	Order confirmation page	Page to summarize the details of the placed order. Order confirmation contains a link to Alipay to support an 'order now, pay later' scenario.
Hosted Payment	Hosted payment feature	Standard integration to Alipay as a hosted Payment Service Provider. Alipay takes responsibility for taking the payment details of the Customer so the merchant is relieved of the security risk of handling payment details. Customers must be redirected to the Payment Service Provider's website in order to provide their payment details. The experience for the customer is seamlessly handled as part of the checkout flow. Hosted payment is only available as part of the checkout flow.
Customer Account	Forgotten password process	A process to allow the customer to reset their password.
	Forgotten password email	Email containing a link to allow customers to reset their password.
	Time-limited update forgotten password link	Update password link in forgotten password email is time-limited.
	Customer account registration	Ability to create a customer account. Enabling CAPTCHA protection against account farming is optional.
	Customer account login	Ability to log into a customer account.
	Account homepage	Navigation page for managing the customer account. Supports dynamic content.
	Update profile details	Ability for customer to update their profile details.
	Update password	Ability for customer to update their password.
	Manage address book	Support for add, edit, removal, set default for addresses.
	View order history	Ability to review previous orders.

Functional Area	Feature	Description
	View order status	Ability to view the status of current orders, including: timestamp order placed, order paid, order shipped, order delivered
Store Finder	Find cities with stores	Ability to select a city on the interactive China country map.
	Find stores by selecting a city	Ability to select a store on the interactive city map.
	Show store results on a map	Display of store results on a map and as a list, both which are interactive to show store details.
	Store shows custom image	Ability to display a custom image for each store.
	Store shows custom content	Ability to display custom content about each store, such as event details.
	Store shows features, opening hours and contact details	Display of store features, opening hours and contact details for each store.
	Integrated maps service	Integrated with Baidu maps to provide map functionality.
Content Management	6 Content Page layouts	Choice of 6 layouts for content pages.
	3 Product Catalog page layout	Display all products in a grid view.
	Page Header site navigation links	Support for content manageable site navigation links.
	Site logo	Support for managing site logo in the SAP Commerce WCMS Cockpit.
	Product Page content tabs	Ability to add content tabs to product page.
Data Import / Export	Imports and Exports various kinds of data	Capabilities to export product and other data to and import from external systems.
Content Pages	FAQ Page	FAQ page where questions asked can be added to a content managed page for the benefit of all customers.

Configuring Chinese Product Searching

You must configure Solr Search in order to use the Chinese Product Searching feature in the Accelerator for China.

Context

Jcseg is a lightweight open-source Chinese language tokenizer based on `mmseg` algorithm which incorporates the extractions of key words, key phrases, key sentences, and automatic summarization of articles and other functions. It provides tokenization interfaces for Solr, and elasticsearch of the latest versions.

Procedure

1. Download **jcseg** (v2.1.1-release) from https://github.com/lionsoul2014/jcseg/tree/v2.1.1-release ↗ .

2. Call `mvn package` under `${jcseg-2.1.1-release}`.

3. Copy the following compiled jar packages to the directory `${HYBRIS_BIN_DIR}\modules\search-and-navigation\solrserver\resources\solr\7.7\server\server\solr-webapp\webapp\WEB-INF\lib`:

   - `${jcseg-2.1.1-release}\jcseg-analyzer\target\jcseg-analyzer-2.1.1.jar`

   - `${jcseg-2.1.1-release}\jcseg-analyzer\target\jcseg-analyzer-2.1.1-javadoc.jar`

   - `${jcseg-2.1.1-release}\jcseg-core\target\jcseg-core-2.1.1.jar`

   - `${jcseg-2.1.1-release}\jcseg-core\target\jcseg-core-2.1.1-javadoc.jar`

   - `${jcseg-2.1.1-release}\jcseg-elasticsearch\target\jcseg-elasticsearch-2.1.1.jar`

   - `${jcseg-2.1.1-release}\jcseg-elasticsearch\target\jcseg-elasticsearch-2.1.1-javadoc.jar`

   - `${jcseg-2.1.1-release}\jcseg-server\target\jcseg-server-2.1.1.jar`

   - `${jcseg-2.1.1-release}\jcseg-server\target\jcseg-server-2.1.1-javadoc.jar`

4. Open the `schema.xml` file under `{HYBRIS_HOME}\hybris\config\solr\instances\default\configsets\default\conf`, and add the following field:

   ```
   <fieldType name="textSimple" class="solr.TextField" >
           <analyzer>
             <tokenizer class="org.lionsoul.jcseg.analyzer.JcsegTokenizerFactory" mode="simple"
           </analyzer>
        </fieldType>
   ```

5. Copy the **lexicon** file folder under `${jcseg-2.1.1-release}\vendors\lexicon` to `${HYBRIS_BIN_DIR}\modules\search-and-navigation\solrserver\resources\solr\7.7\server\server\solr-webapp\webapp\WEB-INF\lib`.

6. Navigate to the `${HYBRIS_BIN_DIR}\platform`, to start SAP Commerce server.

7. Log on to `http://127.0.0.1:8983/solr`.

8. Test the configuration by referring to the figure given below:

9. Solr search in Chinese in now ready for use in the storefront.

Commerce B2C Accelerator

The SAP Commerce Accelerator is a ready-to-use omni-channel solution that you can use to speed implementation, boost sales, and increase growth across all of your channels.

[Core Accelerator Module](#)

The Core Accelerator Module provides Responsive Storefront functionality, as well as features such as payment services, extensions to the OCC API, and additional WCMS components beyond the defaults provided by the cms2 and cms2lib extensions.

[Base Accelerator Module](#)

The Base Accelerator module provides the majority of Accelerator functionality, from configurable checkout to Spring security, as well as link and navigation management, SEO, pick up in store, customizations, search and navigation, and much more.

[B2C Accelerator Module](#)

The B2C Accelerator module lets you set up fully-functional apparel and electronics storefronts.

[B2C Accelerator AddOns Module](#)

The B2C Accelerator AddOns module is a set of special extensions, called AddOns, that allow you to extend the functionality of your storefront without having to edit the core code base.

Commerce B2B Accelerator

Commerce B2B Accelerator is a ready-to-use Web framework that enables you to jump-start your B2B implementation and easily build and maintain a feature-rich, omni-channel commerce solution.

[B2B Accelerator Module](#)

B2B Accelerator includes features that manage your inventory, security, AddOns, and user accounts.

[B2B Accelerator AddOns Module](#)

B2B Accelerator AddOns allow you to manage your accounts, order forms, login security, and punchout procurements.

[B2B Commerce Module](#)

B2B Commerce Module adds business-to-business functionality to SAP Commerce. It enables you to integrate multiple channels, business models, and markets on a single platform.

Text Field Configurator Template Module

Text Field Configurator Template module allows you to add simple text-field-based configuration forms to services, facades, and products using the Backoffice Administration Cockpit.

Architecture

[textfieldconfiguratortemplateservices Extension](#)

[textfieldconfiguratortemplatefacades Extension](#)

[textfieldconfiguratortemplatebackoffice Extension](#)

[textfieldconfiguratortemplateaddon Extension](#)

These Text Field Configurator Template Architecture extensions allow you to add simple textfield-based configuration forms to services, facades, and products using the Backoffice Administration Cockpit.
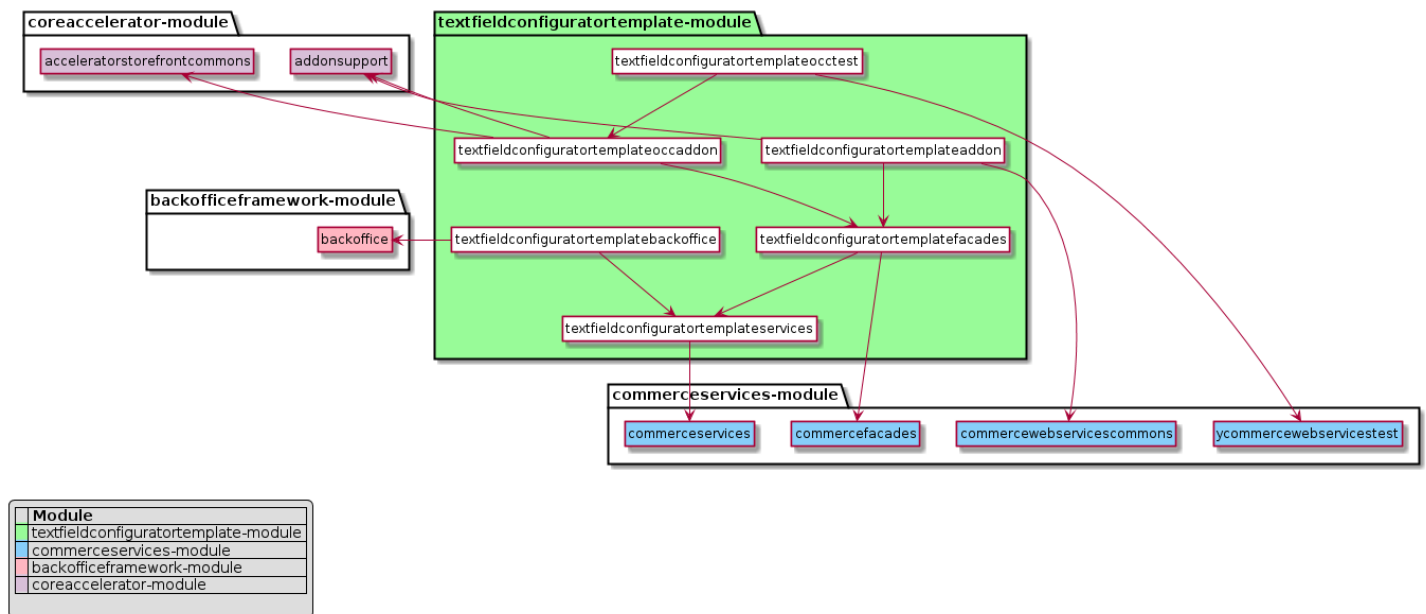
Text Field Configurator Template Architecture

These Text Field Configurator Template Architecture extensions allow you to add simple textfield-based configuration forms to services, facades, and products using the Backoffice Administration Cockpit.

Dependencies

Dependencies Diagram

Recipes

All recipes contain the Text Field Configurator Template module.

For further information, see [Installer Recipes](#).

Extensions

The Text Field Configurator Template module consists of the following extensions:

- [textfieldconfiguratortemplateservices Extension](#)
- [textfieldconfiguratortemplatefacades Extension](#)
- [textfieldconfiguratortemplatebackoffice Extension](#)
- [textfieldconfiguratortemplateaddon Extension](#)
- textfieldconfiguratortemplateatddtests
- textfieldconfiguratortemplateoccaddon
- textfieldconfiguratortemplateocctest

Accelerator for China

The SAP Commerce, Accelerator for China delivers a feature-rich omnichannel commerce solution quickly and easily. It takes full advantage of SAP Commerce' unique flexibility and capability.

Key Business Challenges

ⓘ Note

SAP Commerce Accelerator is released as source and are **implementation templates**. Due to the template character of Accelerators and their need for intense customization, you cannot apply patches to customized Accelerator storefront templates. Therefore, we do not offer backports of bug fixes for Accelerator storefront templates for prior releases of Accelerator. You must maintain your Accelerator storefront template implementations on your own once you customize the template.

E-Commerce projects can be challenging. Organizations looking to implement a commerce solution in China have to adapt their commerce platform to meet the unique demands and habits of Chinese customers. Besides, they are looking for feature-rich solutions that can be implemented in a short time-to-market and serve as a basis for sophisticated omnichannel strategies. Customers expect a seamless shopping experience where they can easily find product items and quickly complete purchasing transactions. The customer expectation is to interact with the retailer whenever and however they want and the retailer needs to respond to this request in a consistent fashion. If not, the customer will go elsewhere.

The following are the typical fears that organizations face when approaching omnichannel projects:

- High deployment time and costs
- Long and tedious implementations
- Risky e-commerce start
- Slow launch of a new online store
- Finding a future-proof solution
- Initial delivery does not live up to the expectations
- Costly re-platform of the existing online store
- Complex process of building and maintaining a feature-rich online shopping experience
- Complex customization
- Complex development

Solution Offered by Accelerator for China

Unlike the variety of SAP Commerce Accelerators that are designed to target some specific industries, or for a broader types of commerce such as B2B or B2C, the Accelerator for China adds a splash of Chinese flavor into the suite. The solution includes a set of China-specific AddOns, and a list of exciting China-specific features that can be plugged into any Accelerator as a package, or individually. The deployment could be purely mixed and matched to add desired China-specific features based on the business users' likings and needs, without the need to depart from the feature-rich core Accelerator.

The Accelerator for China package answers customer inquiries by enabling:

- Managing user profiles that are of Chinese characteristics.
- Binding a mobile number to an account and logging in to the storefront with an email address or the bound mobile number.
- Ability to add Chinese address in the Address Book for B2C and B2B customers, and providing with Chinese shipping address for the checkout process.
- Sharing products in Chinese social networking sites.

- Ability to index and search product information in Chinese.

- New vertical navigation to provide multilevel menus on the homepage to access top brands, hot products, and others.

- Store locating with Chinese Baidu Map.

- Localized checkout process.

- Pluggable Payment Gateways Interface with out-of-the-box Alipay services.

- Ability to create refund requests for orders paid via Alipay.

- Smart phone customers can purchase products within a WeChat Official Account, and complete the order via WeChat Pay.

- Ability to define shipping fees on Province/City/District combination with Chinese location data.

- Customer can request for a specific delivery time, whether week-day only, week-end only, or any days.

- Customer can request for tax invoice when checkout is made.

- Selective cart offers flexible checkout options, thus improving shopping experience and increasing conversion rate.

- Flexible coupon usage by allowing a customer to possess certain coupons. Customer coupons can be used for marketing campaigns or ad-hoc assignments base on business needs.

- Enhanced promotion engine for creating Flash Buy promotions, and allowing customers to buy Flash Buy products.

- The Message Center module exposes RESTful endpoints that provide a foundation for jump-starting a message center solution on the fly.

- The Notification module provides a foundation for sending notifications.

- The Customer Interests module allows customers to register interested products for receiving various notifications, such as price-cut notifications, back-in-stock notifications, and so on.

- The Stock Notification module allows customers to manage their product interests for receiving back-in-stock notifications.

- The Consignment Tracking module provides real time logistic tracking information to the customers, thus improving shopping experience.

The following screenshots give an example of the Storefront Homepage:

Figure: Storefront Homepage of Accelerator for China for B2C Commerce

(v) **B2B Accelerator**

I'm looking for

(0 ITEMS) ¥0.00

POWER DRILLS   ANGLE GRINDERS   SCREWDRIVERS   SANDERS   MEASURING & LAYOUT TOOLS   HAND TOOLS   SAFETY

THE MOST
POWERFUL
TOOLS
IN THEIR PRICE RANGE

BOSCH ⊕   BLACK&DECKER   Einhell   SKIL   HITACHI

POWER DRILLS   ANGLE GRINDERS   SCREWDRIVERS   SANDERS

WHAT'S NEW

PSR 960	ANGLE GRINDER RT-AG 115	KA191EK	EPC12CABK	PSB 14.4 V-I	PROFESSIONAL NETWORK INSTALLER TOOL KIT	TERMINATION PALLET
¥312.00	¥358.00	¥527.00	¥475.00	¥1,105.00	¥761.00	¥332.00

OUR BESTSELLING PRODUCTS

PSR 960	PSR 10.8 LI	PSR 14.4 LI-2	BT-HS 12	LABORATORY BOTTLE	KR703K	KD990KA
¥514.00	¥624.00	¥969.00	¥182.00	¥26.00	¥488.00	¥845.00

25%
Great Prices
& Great Deals

30 day
Shop with Confidence
Easy 30-Day Return Policy

6 pm
Order by 6PM
Same Day Shipment

24 /7
Great Service
After You Buy

Accelerator
About Commerce Accelerator
Documentation

Hybris
About hybris
Contact Us

Follow Us
Agile Commerce Blog
Linked In
Facebook
Twitter

ENGLISH   ¥ CNY

Figure: Storefront Homepage of Accelerator for China for B2B Commerce

Marketplace Accelerator

The SAP Commerce Marketplace Accelerator is a ready-to-use web implementation template that enables you to jump-start your B2C implementation and easily build and maintain a feature-rich omni-channel commerce solution.

> ℹ **Note**
>
> The Marketplace AddOn is no longer in active development. One suggested alternative is the Mirakl Marketplace Platform, which is integrated through the `SAP Commerce Marketplace Management by Mirakl` extension https://www.sapappcenter.com/apps/39723/sap-commerce-marketplace-management-by-mirakl ↗ .

Overview

The Marketplace Accelerator is implemented to meet the special needs of B2C solution.

This solution provides a Merchant with a platform to host a marketplace for Vendors and Consumers to conduct online commerce. In the platform, the Vendors can set up a shop to sell their products. Consumers can purchase products from different Vendors in a unified online commerce experience.

Managing Merchant to Vendor relationship, as well as managing the product offerings from the Vendors could be complex, and even painstaking. However, the streamlined processes and powerful tools provided by the Marketplace Accelerator make all these tasks easy!

The Marketplace Accelerator offers the following business benefits for the Merchant and Vendors:

1. For Merchant:

   - An out-of-the-box e-commerce site with Vendor sample data for B2C transactions.

   - Easy-to-use and intuitive interfaces for Vendor Management, Product Management, and Content Management.

   - Out-of-the-box hot folder to approve Vendor products.

2. For Vendors:

   - Ready-to-use landing page with an option for customization

   - Easy-to-use and intuitive interfaces for Vendor User Management, Product Management, and Order Management.

   - Out-of-the-box hot folder, and a set of REST APIs for data importing and exporting in the Marketplace.

In addition, a Chinese-featured Marketplace Accelerator is provided to showcase a localized solution of the Marketplace Accelerator for the China market.[More information]
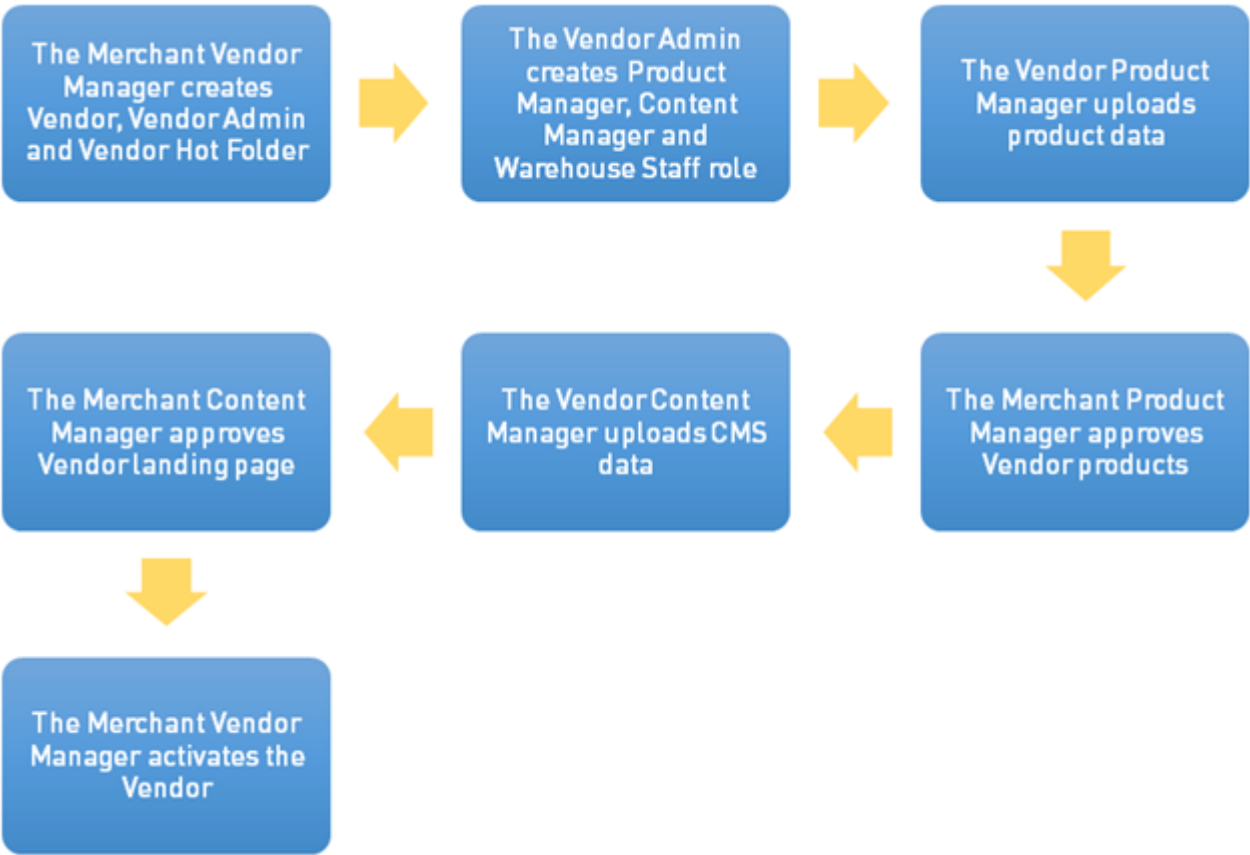
Key Features

- **Vendor Management**: Allows Merchant to create and manage Vendors and Vendor Users from Merchant perspective. It also includes capabilities for Vendors to manage their data and transactions. [More information]

- **Product Information Management**: Allows product managers to manage product data in the Marketplace. [More information]

- **Storefront & Content Management**: Allows Merchant to design Storefront layout, and configure the content to be shown in the Storefront. It also allows Vendors to customize content for landing page. [More information]

- **Order Management**: Allows Vendors to manage order data in the Marketplace. [More information]

- **Vendor and Product Review**: Allows Consumers to provide ratings and reviews for purchased products and the selling Vendors. [More information]

Typical Business Flow in the Marketplace Accelerator

The following diagrams illustrate the business flow in the Marketplace Accelerator:

1. Vendor Setup

2. Online Commerce

1	The Consumer purchases products from multiple Vendors.
2	The system splits the Master Order into Vendor Orders.
3	A strategy is applied to automatically approve the Vendor Orders.
4	The Vendor Warehouse Staff fulfills the Vendor Orders through management portal or hot folder.
5	The Consumer tracks packages on the Order History Page.

Related Information

[Terminology and Definitions](#)

[Key Roles in the Marketplace](#)

[Key Function Modules of Marketplace Accelerator](#)

[Marketplace Accelerator Architecture and Extensions](#)

[Data Importing in the Marketplace](#)

[Data Exporting in the Marketplace](#)

[Common Operations in the Marketplace for Each Role](#)

[Marketplace Accelerator Quick Installation Guide Using Installer](#)

Industry Accelerators

Industry Accelerators are released separately to SAP Commerce. They consist of the following modules: Telco & Utilities Accelerator, Financial Services Accelerator, Citizen Engagement Accelerator, and Travel Accelerator.

[**Industry Accelerator Compatibility Matrix**](#)

Industry Accelerators have dependencies on specific SAP Commerce versions. Learn which SAP Commerce version is supported by each industry Accelerator. The affected Accelerators are Financial Services Accelerator, Citizen Engagement Accelerator, Travel Accelerator, and Telco & Utilities Accelerator.

[**Telco & Utilities Accelerator**](#)

Telco & Utilities Accelerator is a ready-to-use web framework, designed to maximize average revenue per user through cost effective, streamlined process. The accelerator provides all the functionality and business tools required to build an omnichannel e-Commerce solution supporting the unique and individual needs of subscription based businesses including telecommunications, utilities, and media.

[**Financial Services Accelerator**](#)

Financial Services Accelerator is a tailor-made, omnichannel solution for direct insurance companies, banks, and other financial service providers that are looking to develop a more streamlined, seamless, and personalized customer experience, while meeting the unique needs of their industry. Financial Services Accelerator comes with preconfigured reference integrations and storefront templates for insurance and banking industries.

[Travel Accelerator](#)

Deliver Omni-channel Digital Traveller Engagement with SAP Commerce.