

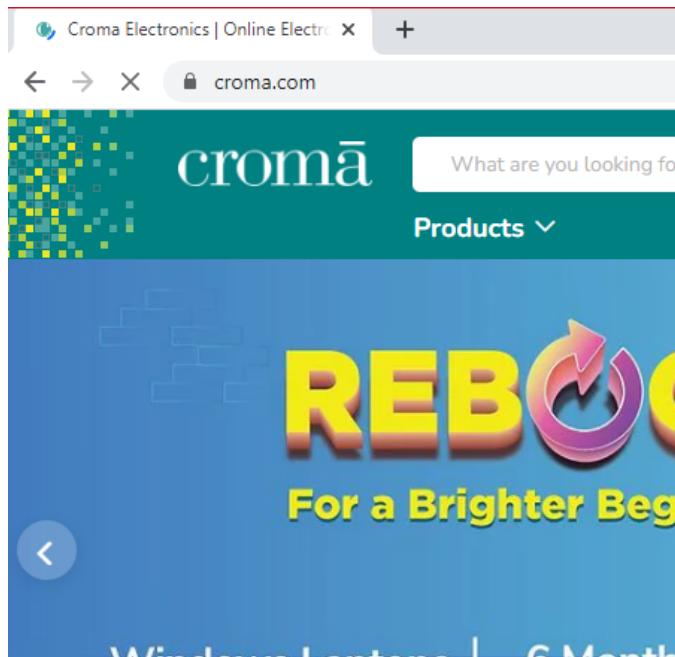
**SAP Commerce Cloud = “SAP Comm” + Cloud**

SAP Comm [New name] = SAP Hybris [Old name]

**Q = What is the “SAP Comm” (or) What is the purpose of “SAP Comm”?**

Let's say – We have a requirement to develop shopping site (or) eComm site [Croma ... RelianceDigital ... ShoppersStop ....] then we can use “SAP Comm”.

That means – By using “SAP Comm” – We can create / develop shopping sites (or) eComm Site.



**Req = Develop a Shopping Site / eComm Site [Croma ... Amazon ...]?**

**Sol1 = We can write code from scratch & develop it.**

**Challenges =**

- 1) Lots of code
- 2) Lots of resources
- 3) Lots of time
- 4) Lots of money
- 5) Can't deliver time to market
- 6) =====

**Then what to do?**

Instead of we develop Shopping Site from scratch ... We can use some templates provided by some companies.

**Example = SAP Comm**

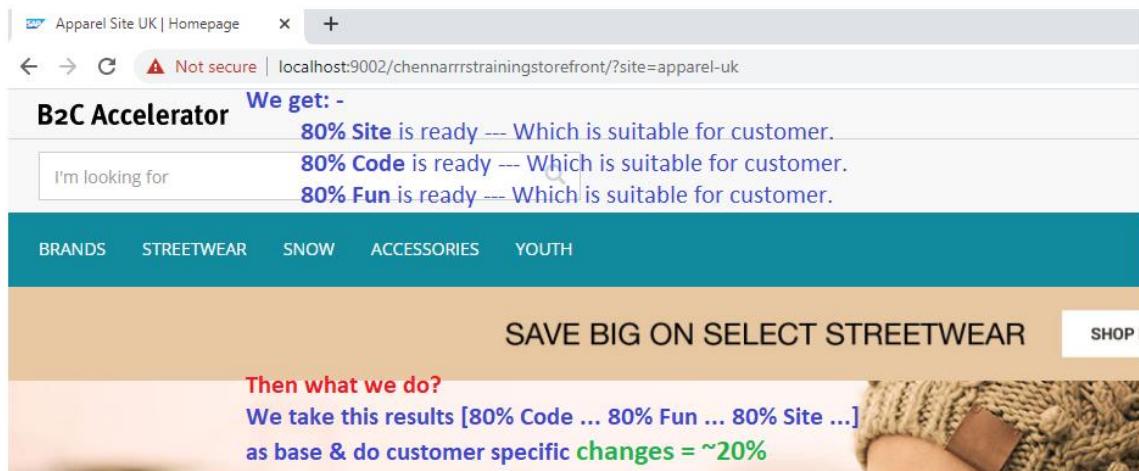
This "SAP Comm" provides templates [We call them as **Recipes**].

We need install the "SAP Comm" provides recipes.

===== We can develop eComm Site / Shopping Site easily by installing "SAP Comm" provided recipes.

**Q = What does it mean we can develop eComm Site / Shopping easily?**

After installing "SAP Comm" provided recipes: -



**Then what we do?**

We take this results [80% Code ... 80% Fun ... 80% Site ...]

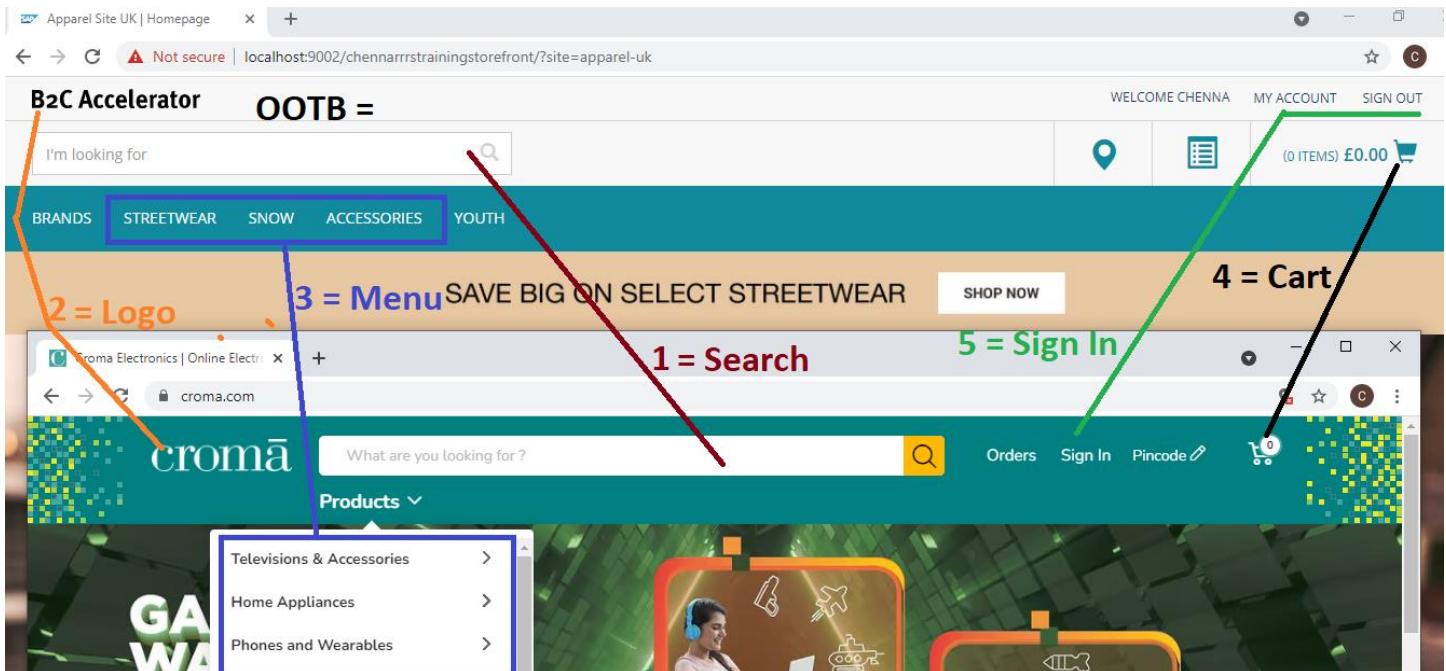
as base & do customer specific **changes** = ~20%

---

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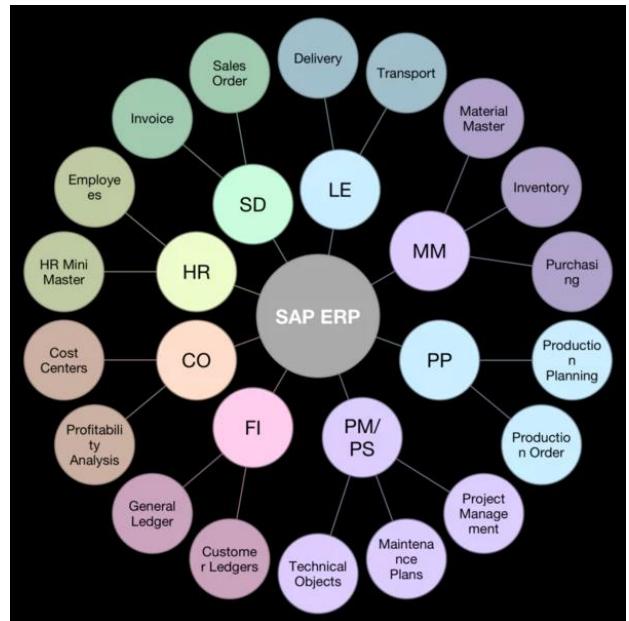
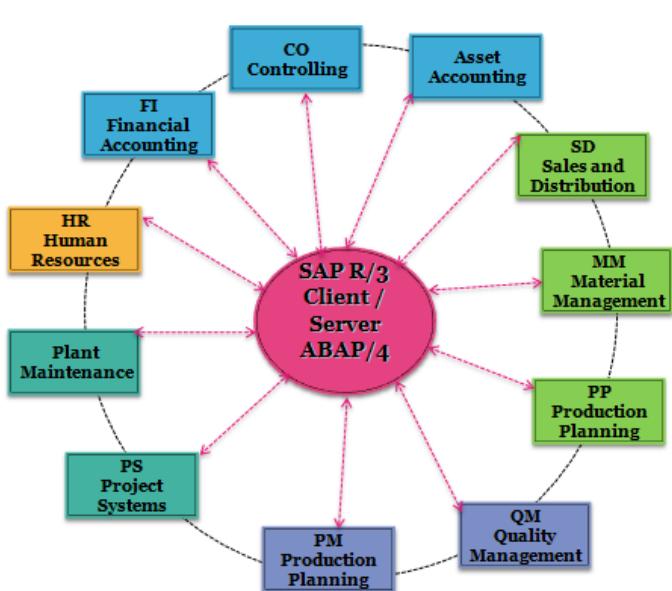
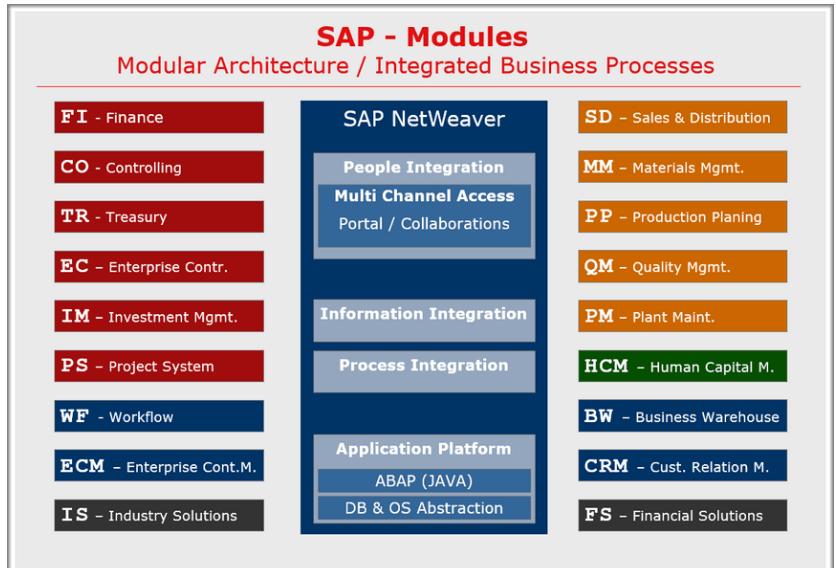
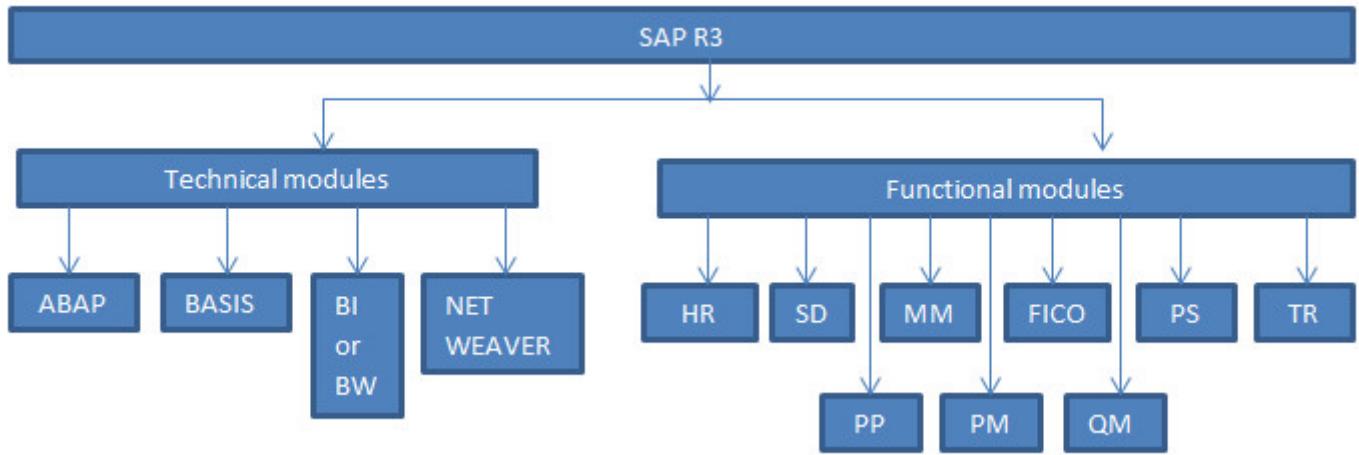
---

**Q = What does it mean --- “80% Code ... 80% Site ... 80% Fun” is ready?**



**Q = What does it mean – we do customer specific changes = ~20%?**

Field / Feature	Left Form (OOTB/GAP)	Right Form (Customer Specific Change)
TITLE	Present	Not present
FIRST NAME	Present	Present
LAST NAME	Present	Present
EMAIL ADDRESS	Present	Present
PASSWORD	Present	Not present
Mobile Number/Email	Not present	Present
SEND OTP	Not present	Present



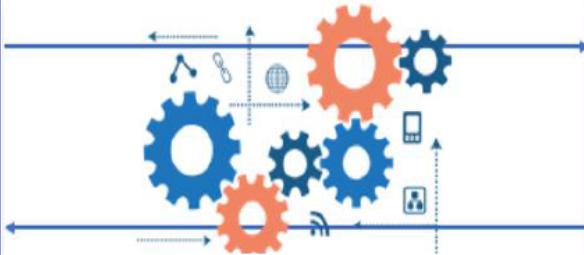
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**Q = What is the purpose of "SAP Comm"?**  
**Shopping (or) Placing the Order.**

**Q = What "SAP Comm" provides?**  
 Cart ... Checkout ... User ...  
 Promotions ... Products ...  
 Categories ... Order Status ...  
 Order Submit ....

## SAP Comm System

## Integrations



### 2 Approaches for Integrations: -

- 1) Sync Model Integration
  - a) RESTful Services
  - b) SOAP based WS (PI)
  - c) Direct HANA Queries
  - d) SCPI
  - e) .....
- 2) Async Model Integration
  - a) DataHub
  - b) SCPI
  - c) Hot folders
  - d) Kafka
  - e) Staging DB
  - f) JMS Message over ESB
  - g) ==

Note = After / Before placing the order (or) shopping -- There are N number of activities to take care.

Example = Shipping, Delivery, Inventory Manage, Order Manage, Warehouse Manage, Pricing, Fulfilment, Availability and ...

These happens generally in 3rd party system like - SAP / PS / and ....

## SAP [3rd Party System]

**Q = What is the purpose of "SAP Comm"?**  
**Shopping (or) Placing the Order.**

**Q = What "SAP Comm" provides?**  
 Cart ... Checkout ... User ...  
 Promotions ... Products ...  
 Categories ... Order Status ...  
 Order Submit ....

## SAP Comm System

## Integrations



- 1) Sync Model Integration
  - a) RESTful Services
  - b) SOAP based WS (PI)
  - c) Direct HANA Queries
  - d) SCPI
  - e) .....

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Not Available For 10 mins

## SAP [3rd Party System]

**Q = What is the purpose of "SAP Comm"?**  
**Shopping (or) Placing the Order.**

**Q = What "SAP Comm" provides?**  
 Cart ... Checkout ... User ...  
 Promotions ... Products ...  
 Categories ... Order Status ...  
 Order Submit ....

## SAP Comm System

## Integrations



- 2) Async Model Integration
  - a) DataHub
  - b) SCPI
  - c) Hot folders
  - d) Kafka
  - e) Staging DB
  - f) JMS Message over ESB
  - g) ==

Note = After / Before placing the order (or) shopping -- There are N number of activities to take care.

Example = Shipping, Delivery, Inventory Manage, Order Manage, Warehouse Manage, Pricing, Fulfilment, Availability and ...

These happens generally in 3rd party system like - SAP / PS / and ....

Not Available For 10 mins

## SAP [3rd Party System]

## Note =

Sync Integration – We can do in N number of ways.

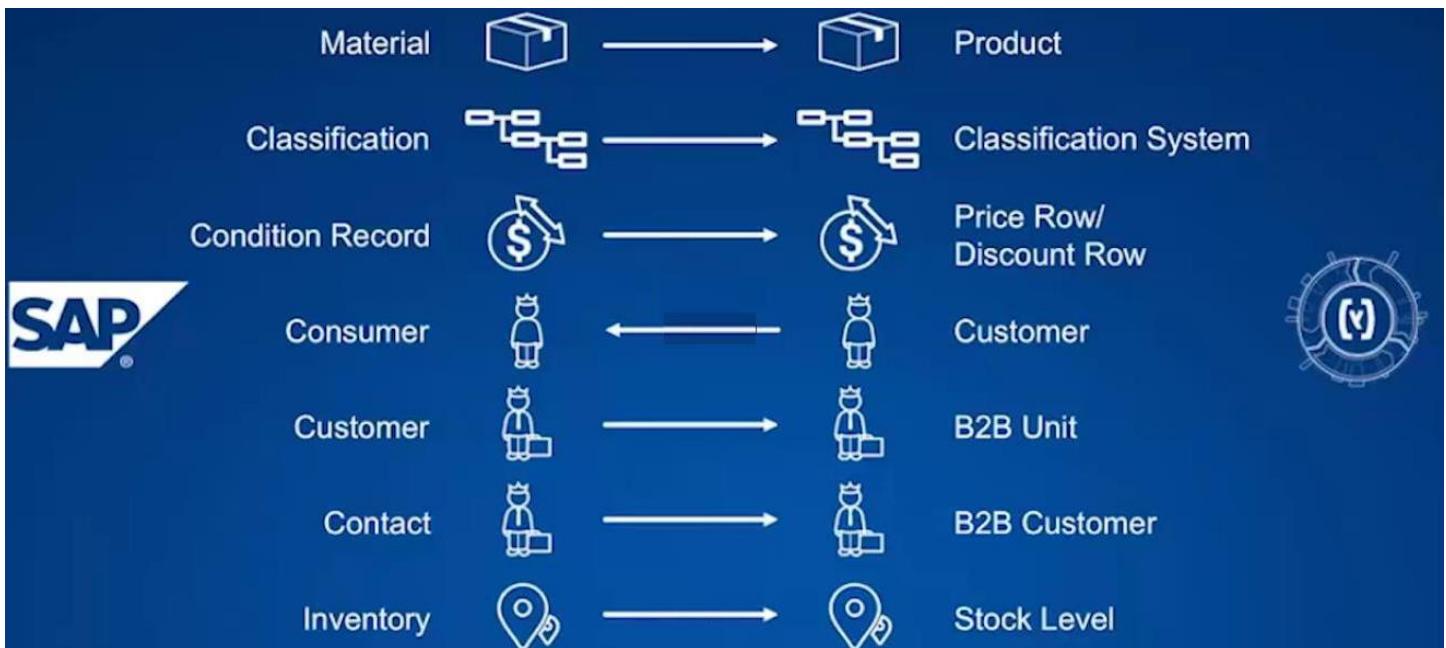
Also, Async integration – We can do in N number of ways.

Generally, in companies will do the Hybrid integration approach.

**Hybrid** integration approach =

For some scenarios – We will do **Sync** Integration.

For some scenarios – We will do **Async** Integration.



**Q** = How to Determine which method to use for specific data points is an important decision.

Data Point	Synchronous	Asynchronous
Product Data		Yes
Customer Data		Yes
Pricing Data	Yes	Yes
Inventory (Stock)	Yes	Yes
Order Status Data	Yes	Yes
Order Submission	Yes	Yes

**Note:** - So decision must be strategic & agreed to across all affected parts of the organization.

**Note** = By using “SAP Comm” – we can develop eComm Site (or) Shipping site easily. Hence “**SAP Comm**” is called “**eComm Solution / Software**”.

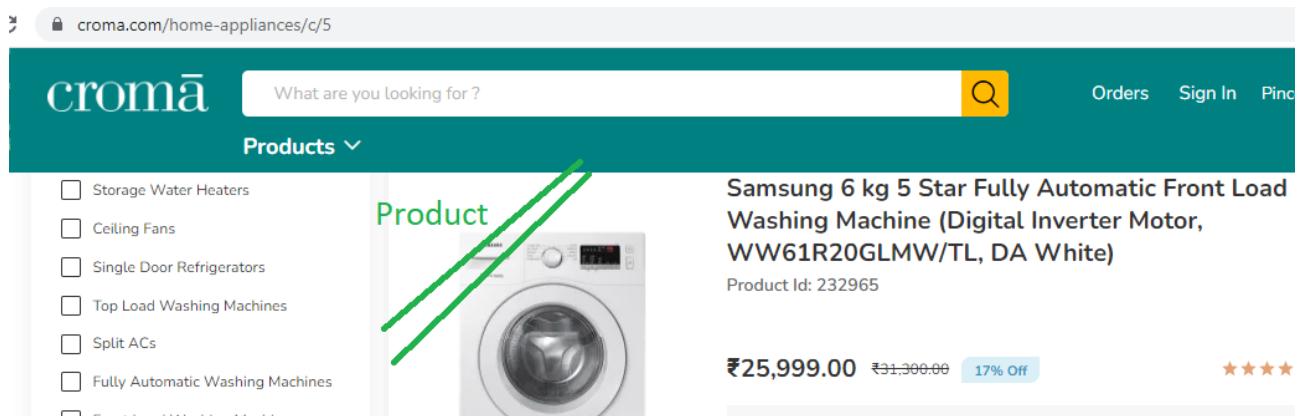
**SAP Commerce Cloud** = “**SAP Comm**” + **Cloud**

“**SAP Comm**” = **eComm Sol / Soft** + **PCM** Software

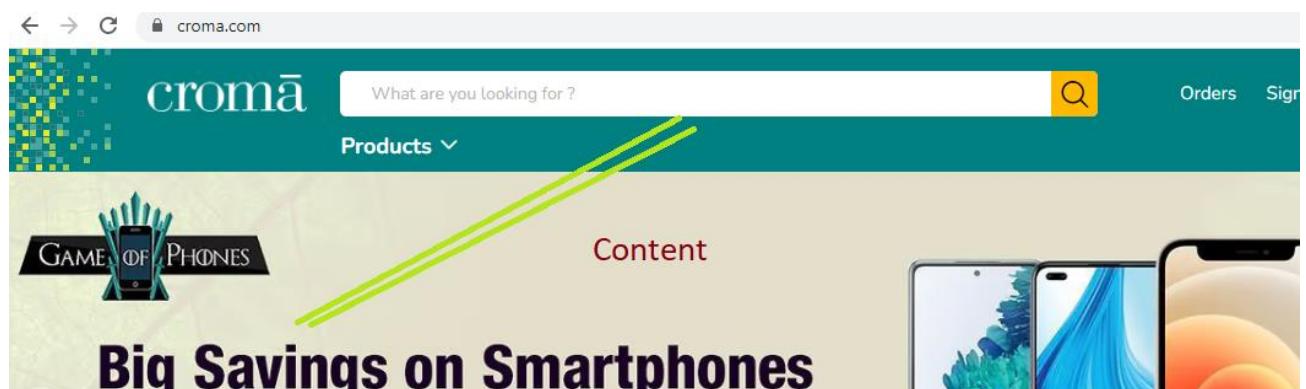
**PCM** = Product Content Management Software.

You take any eComm / Shopping site – There will be **2 important things**:-

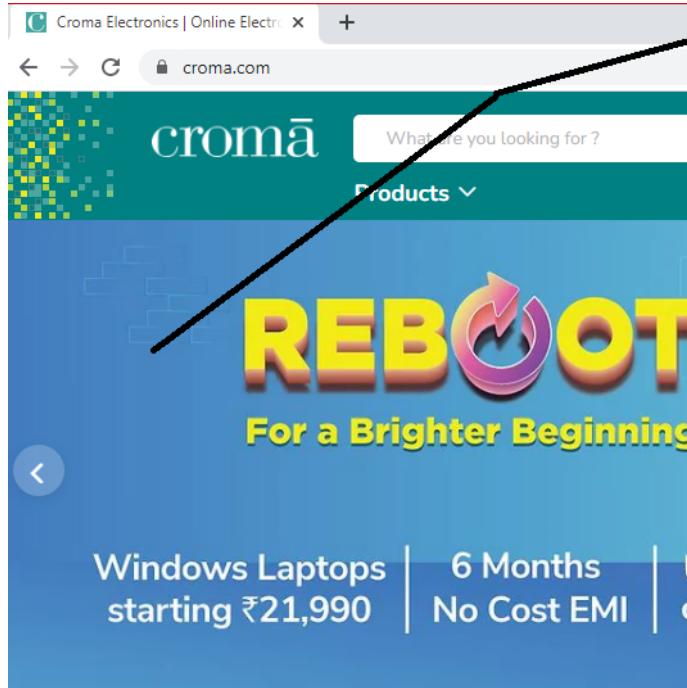
## 1) Product



## 2) Content



## Content =



**This is Content.**

Q = This content changes frequently = Yes

Q = Do you think that, this content changes are done by "Development Team"? = No

Then what?

In companies -- There will be specific people, we call them as "Content Managers [CM]". These CM are responsible to manage this Content.

[Add Content ... Update Content ... Delete Content ...].

Q = Do you think that, this CM are Tech. people to manage this content? = No

Q = If CM are not Tech. then how can they manage this content?

Ans = Right now - we are planning to use "SAP Comm".

This "SAP Comm" provides small software called "**Smart Edit**". By using this "**Smart Edit**" – A non-tech person [CM] can manage the content easily.

== "SAP Comm" is providing a **solution** for Content management.

Note =

In old version [5.X / 6.X] == We had cmscockpit.

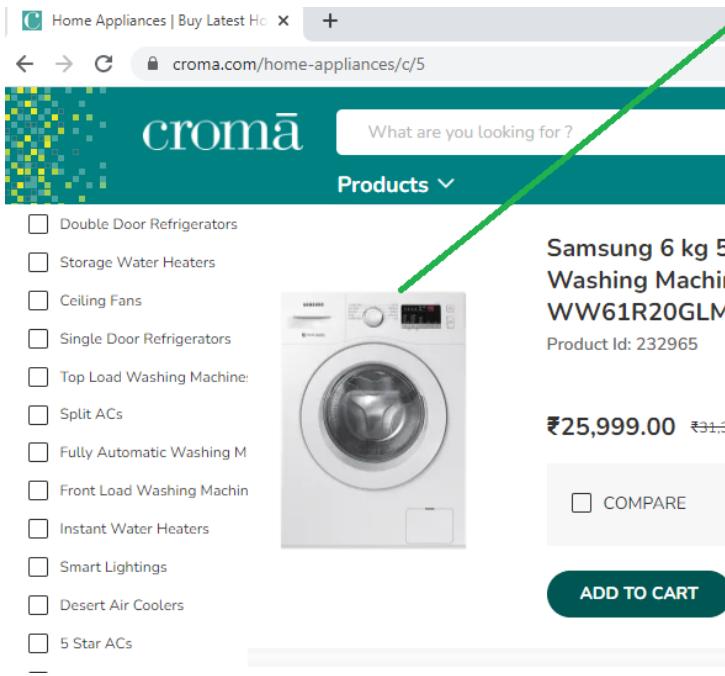
In latest versions == We have "Smart Edit".

A screenshot of the SAP SmartEdit interface. The top navigation bar shows "SmartEdit" and the URL "localhost:9002/smarteredit/#!/". The main header features a green upward arrow icon and the text "Manage the content easily." To the right, it says "Your Site" and "Apparel Site DE". Below this, a message states "These are the catalogs that are related to the selected site". A section titled "APPAREL DE CONTENT CATALOG" shows a thumbnail of a website page with a woman in winter clothing and the text "STARTEN SIE IN DIE SAISON JETZT WINTERDÄCHEN KAUFEN.". To the right, there are two sections: "ONLINE" and "STAGED", each with links to "HOMEPAGE | PAGES | NAVIGATION MANAGEMENT". A page number "5" is visible in the bottom right corner.

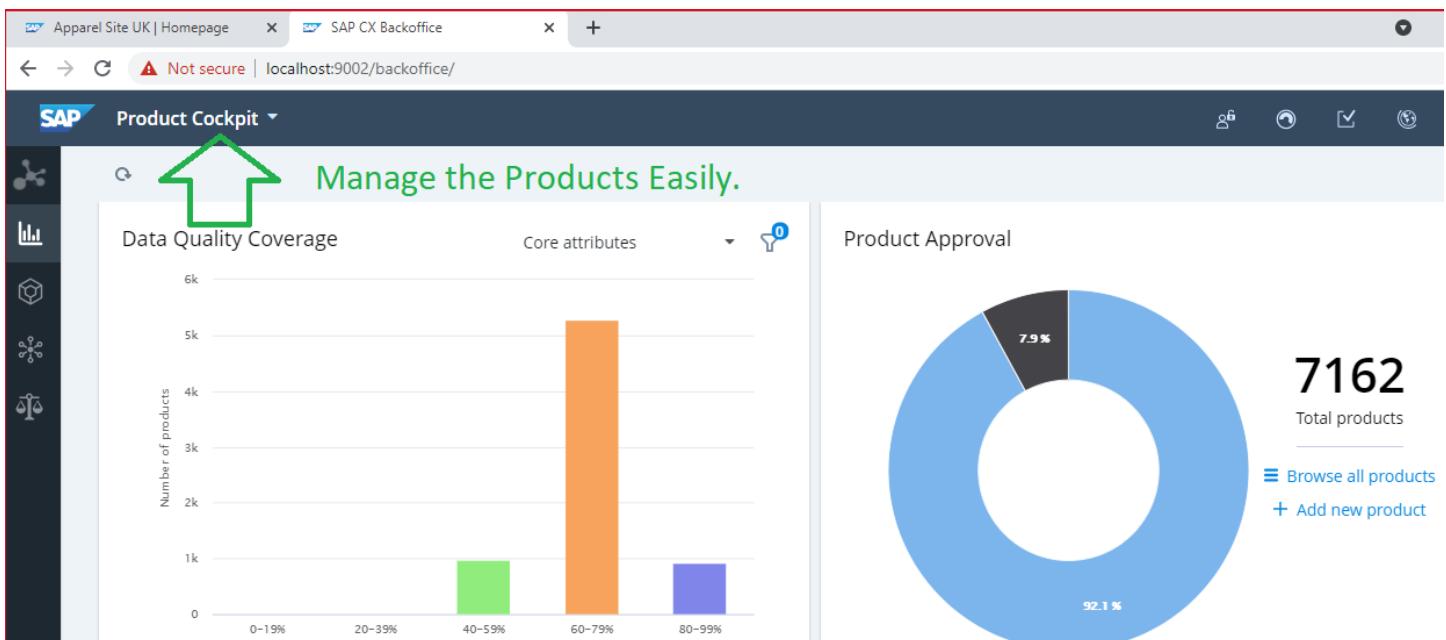
## Products

This is Product.

Q = These Products changes frequently = Yes  
Q = Do you think that, this Products changes are done by "Development Team"? = No  
Then what?  
In companies -- There will be specific people, we call them as "Product Managers [PM]". These PM are responsible to manage this Products.  
[Add Product ... Update Product ... Delete Product ...].  
Q = Do you think that, this PM are Tech. people to manage this Products? = No  
Q = If PM is not Tech. then how can they manage this Products?  
Ans = Right now - we are planning to use "SAP Comm".  
This "SAP Comm" provides small software called "Product Cockpit".  
By using this "Product Cockpit" -- A non-tech person [PM] can manage the products easily.  
== "SAP Comm" is providing a solution for product management products.



The screenshot shows a Croma website product page for a Samsung 6 kg 5 Star Inverter Fully Automatic Front Load Washing Machine (WW61R20GLM). The product image is a white front-loading washing machine. The price is listed as ₹25,999.00. Below the price are 'COMPARE' and 'ADD TO CART' buttons. To the left, there is a sidebar with a list of product categories like Double Door Refrigerators, Storage Water Heaters, Ceiling Fans, etc. A green arrow points from the text 'This is Product.' to the product image.



## Conclusion =

"SAP Comm" is providing a solution for "Content management purpose" = **Smart Edit**.

"SAP Comm" is providing a solution for "Product management purpose" = **Product Cockpit**.

That means – by using “SAP Comm” – We [business] can able to manage the products easily & manage the content easily.

Hence “SAP Comm” is called “**PCM** Software”.

**SAP Commerce Cloud** = “**SAP Comm**” + **Cloud**

“**SAP Comm**” = **eComm Sol / Soft** + **PCM** Software

### **SAP Comm History =**

There is a company called “Hybris” [Since ~1997].

Hybris = eComm Solution [Hybris Commerce].

This company initially was in **Switzerland** & latter they moved to **Germany**.

In “**Aug 1<sup>st</sup> 2013**” SAP company bought Hybris company.

When SAP bought Hybris, that time, Hybris means Comm solution.

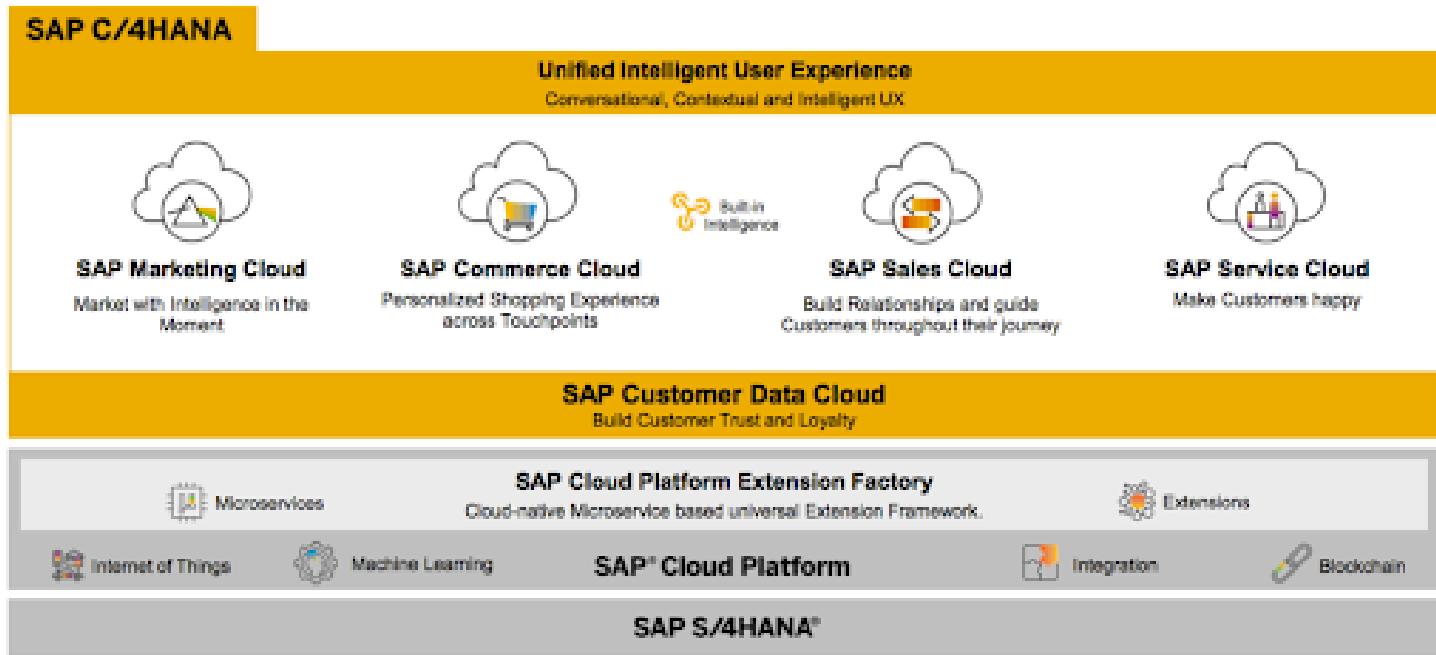
After SAP bought hybris – People use to call it as “**SAP Hybris**”.

Hence – SAP rebranded this name as “**SAP Commerce**”.

**Note** = SAP had “SAP C4C [Cloud for Customer]” & renamed this as “SAP Hybris C4C in April 2016”. Similar, SAP **Hybris product** family: -

SAP Hybris Product Family				
Product for <u>Commerce</u>	Product for <u>Billing</u>	Product for <u>Sales</u>	Product for <u>Service</u>	Product for <u>Marketing</u>
<u>Hybris Commerce</u>	<u>Hybris Billing</u>	<u>Hybris Cloud for Customer or C4C</u>	<u>Hybris Cloud for Customer or C4C</u>	<u>Hybris Marketing</u>

## SAP around C/4HANA Stack in “05-Jun-2018”.



**Q** = Let's say – You company want only “SAP Comm”. Do they need to take entire “C/4HANA” (or) they can **take** only “SAP Comm” from it?

Ans = Yes, they can take any “SAP Comm”.

**Version =**

Hybris 4.X

Hybris 5.X

Hybris 6.X [Up to 6.7]

1808 ... 1811 ... 1905 ... 2005 ... **2011 ... 2105**

Cloud version releases.

Format = Year-Month

1808 = In 2018 Year & Aug Month – There is a release.

SAP Help Portal SAP Commerce

What's New 2011

This document

Versions

2011 (highlighted with a yellow arrow)

2005  
1905  
1811  
1808  
Release 2011  
Commerce OCC APIs  
SAP Commerce Extensibility  
Context-Driven Services Integration  
Integration APIs  
Backoffice Framework  
Search and Navigation  
Platform  
Important Information about the SAP Commerce Cloud 2011 Release

6.3.0 \*  
6.2.0 \*  
6.1.0 \*  
6.0.0 \*

\* This version is out of mainstream

Advanced Search

# Release Notes - SAP Commerce Cloud 2011

SAP Commerce Releases

**Note**

Release version numbering changed with the 1808 release on August 8, 2018 to align with the standard SAP release naming convention of YYMM.

Release Version	General Availability	End of Mainstream Maintenance
2011	November 11, 2020	February 11, 2023
2005	May 13, 2020	August 13, 2022
1905	May 29, 2019	August 29, 2022
1811	December 12, 2018	August 29, 2021
1808	August 8, 2018	August 29, 2021
6.7	April 11, 2018	August 8, 2020
6.6	December 13, 2017	April 11, 2020

## Note =

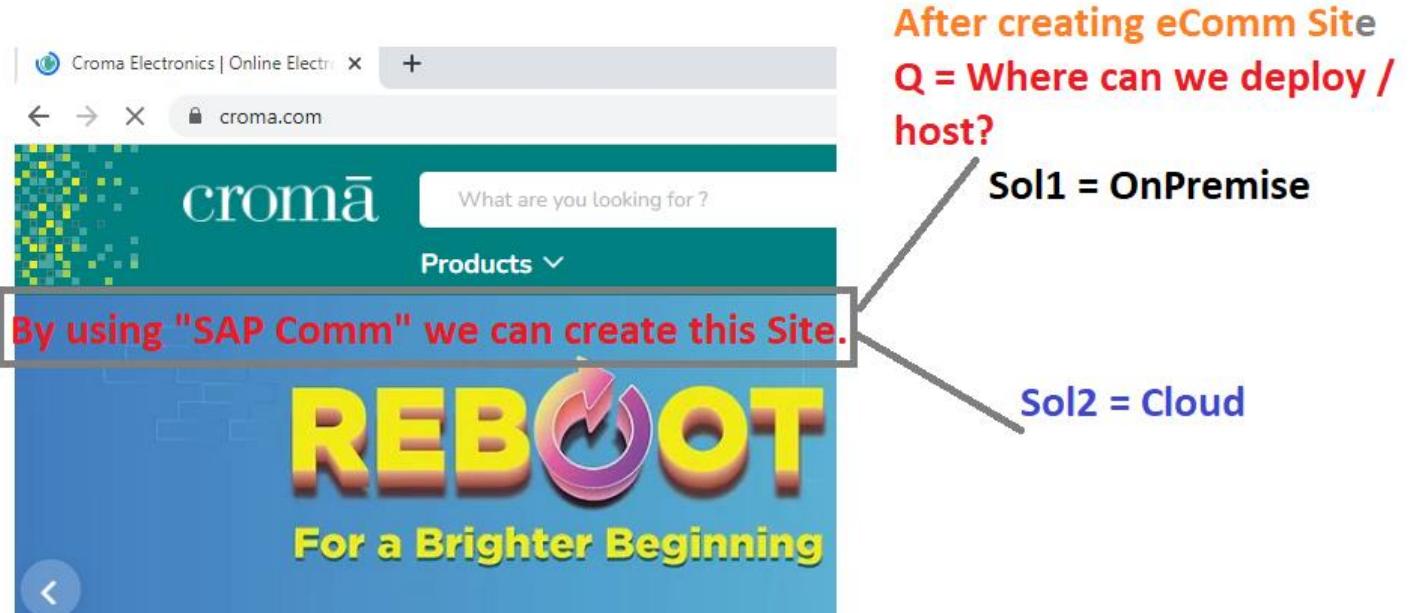
6.X / 1808 / 1811 = Java 8

1905 / 2005 / 2011 = Java 11

**SAP Commerce Cloud = “SAP Comm” + Cloud**

“SAP Comm” = eComm Sol / Soft + PCM Software

## Cloud



OnPremise = Having Own House

Cloud = Having Rented House

OnPremise	Cloud
Lots of initial investment is required [~2C]	No need initial investment. We just pay the rent [~2L]
If something is not working – then we are responsible for it	Owner is responsible
Maintenance – We are responsible	Owner is responsible
Moving to another – is difficult	Moving to another – is easy
Disaster recovery – We [Company] are responsible.	Disaster recovery – Owner is responsible.

**OnPremise** = Let's say – we want to develop a software for DRL.

What are all needed?

Network .... OS ... Middleware ... Java [RTE] .... DB ... Server ...  
Application .... Data ....

Q1 = If OS is not working – We [company] are responsible.

Q2 = If OS is out dated – We [company] are responsible to upgrade.

Q3 = If OS is having some patches – We are responsible.

=====

#### ***Building Own House – Requires Decision Taking***



#### ***Building Own House – Requires Decision Taking***



#### ***How About Renting?***



#### ***How About Renting?***



## Huge Data Center

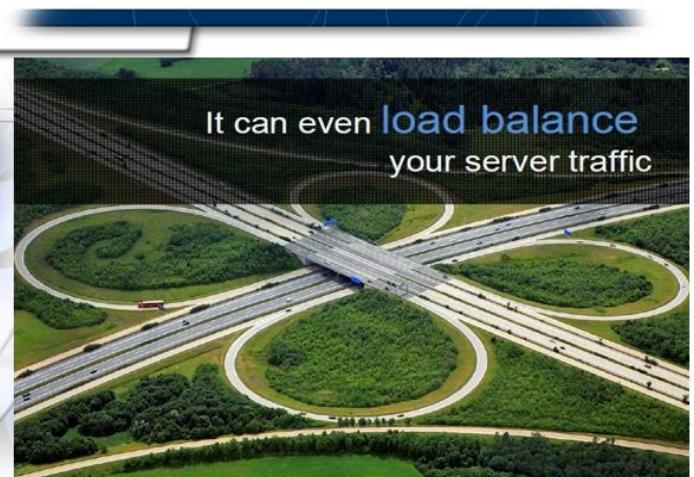


Capacity Planning

Cooling Management  
Disaster Plan

Server Crashes

## Huge Data Center



**Cloud is available in 3 flavours = IaaS .... PaaS .... SaaS**

### On-Premise



**SAP Hybris (v)**

Managed by Customer

Managed by Vendor

### IaaS



rackspace GoGrid Linode host

### PaaS



SAP Hybris (v) [SAP CC]  
Azure Force.com  
Google Apps Workday

### SaaS



commerce cloud  
consume

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## "IaaS"

Infrastructure-as-a-Service

host



## "PaaS"

Platform-as-a-Service

build



## "SaaS"

Software-as-a-Service

consume

### IaaS

- Amazon
- GoGrid
- Linode
- Rackspace
- Others...

### PaaS

- AppEngine
- Azure
- EngineYard
- Force.com
- Heroku

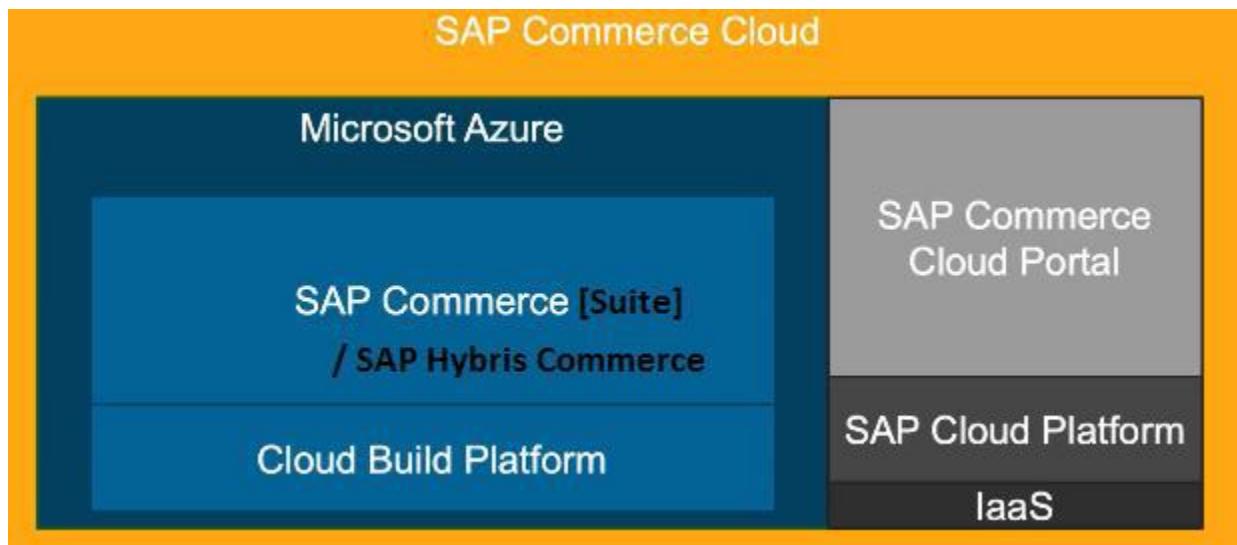
### SaaS

- Google Apps
- Salesforce
- Taleo, Workday,  
many, many  
more...

	On Premise	Cloud
Hosting / Infrastructure	Additional cost	Kubernetes clusters on Azure IaaS
Provisioning	Manual	Automated – under 60 minutes
Deployments	Manual	Automated – self-service portal w/ Zero Downtime
Build Environment	Additional cost	Included – build and deployment pipelines
Database	Additional cost	Included – Azure SQL
Monitoring	Additional cost	Transparency – self-service portal, EFK + Dynatrace
Support	Additional cost	Shared – self-service portal and SAP
Flexibility	Limited to hosting / partner	Fully enabled via Self-Service portal
Releases / Upgrades	Additional cost	Monthly releases / technical upgrade included
Scaling	Manual	Automated
Disaster Recovery	Additional cost	RPO: 5 min, RTO: 4 hours
Sizing and Pricing	CPU core based license	Pay as you grow subscription / Guaranteed SLA

## Q = SAP Commerce Cloud consists?

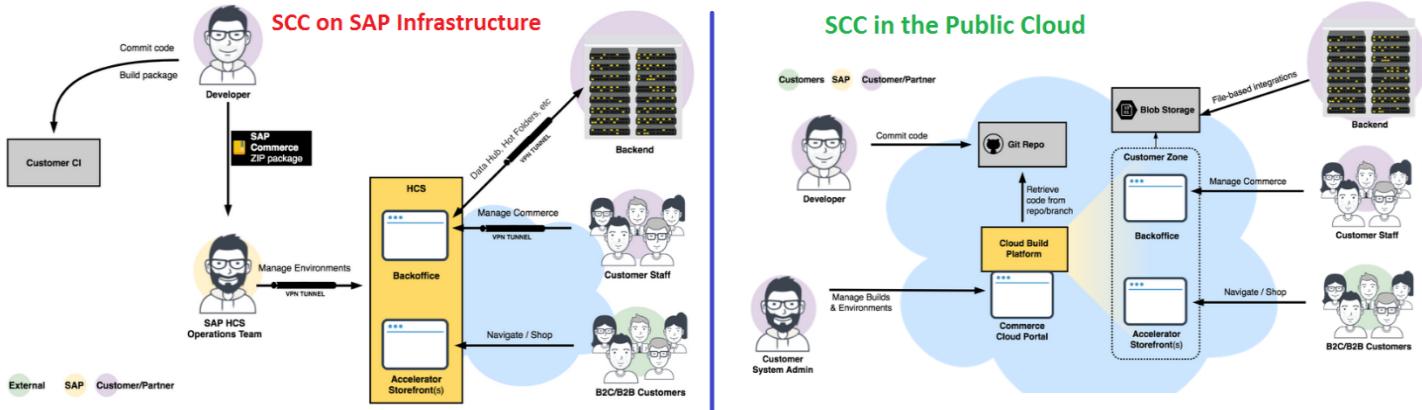
- 1) **MS Azure** = Used to host our Cloud Build Platform that builds all using SAP Commerce [Formerly known as SAP Hybris Commerce]
- 2) **IaaS** = This runs the SAP Cloud Platform
- 3) **SAP Commerce Cloud Portal** = It's a self-service portal, where you can manage, maintain, build, and deploy our SAP Commerce Cloud solution.



# SAP Commerce Cloud =

1) CCv1 [Private]

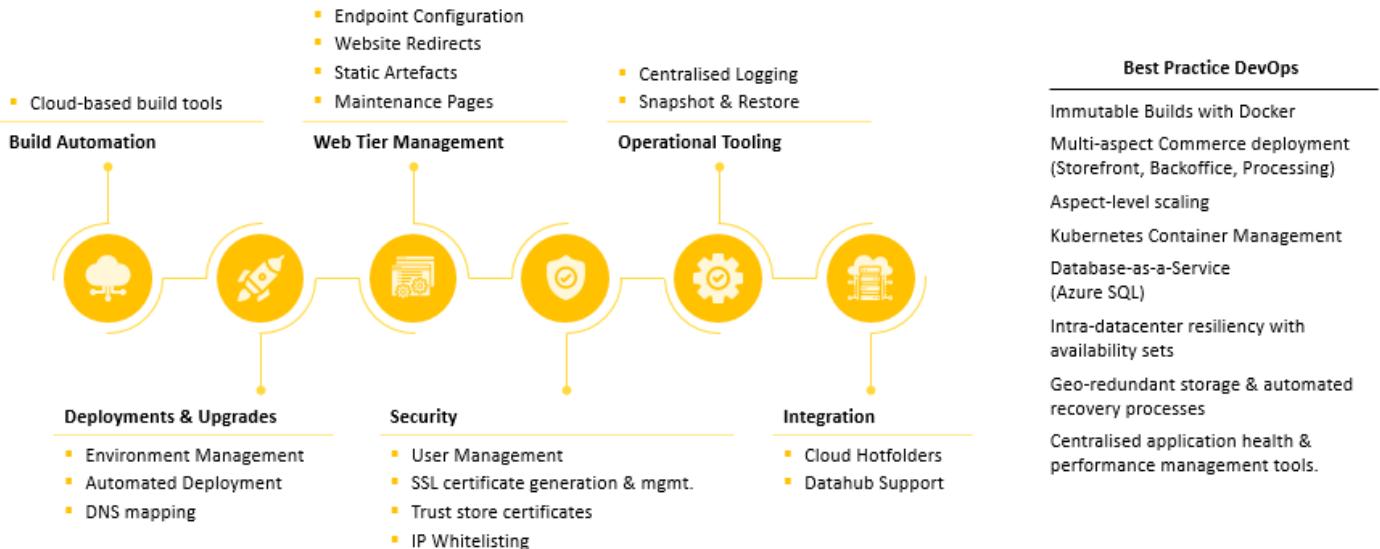
2) CCv2 [Public]



Q = What are the “Benefits of Commerce Cloud”?



## Q = What are the “SAP Commerce Cloud – Available Features”



**Note** = SAP Comm 6.7 (or) Above only – Will support “SAP Commerce Cloud”.

SAP Comm Cloud = Currently the **CCV2** version: -

- 1) Drives digital transformation
- 2) Enables you to function as an omni-channel business, delivering contextual customer experiences and unifying customer processes.

## Q = Benefits with “SAP Comm Cloud” [CCv2]?

- 1) Public Cloud Infrastructure
- 2) Elastic scaling to meet operational metrics and traffic rushes
- 3) Self-service Environment management
- 4) Disaster Recovery and Backup
- 5) Flexible Deployment [CI] Continuous Integrations

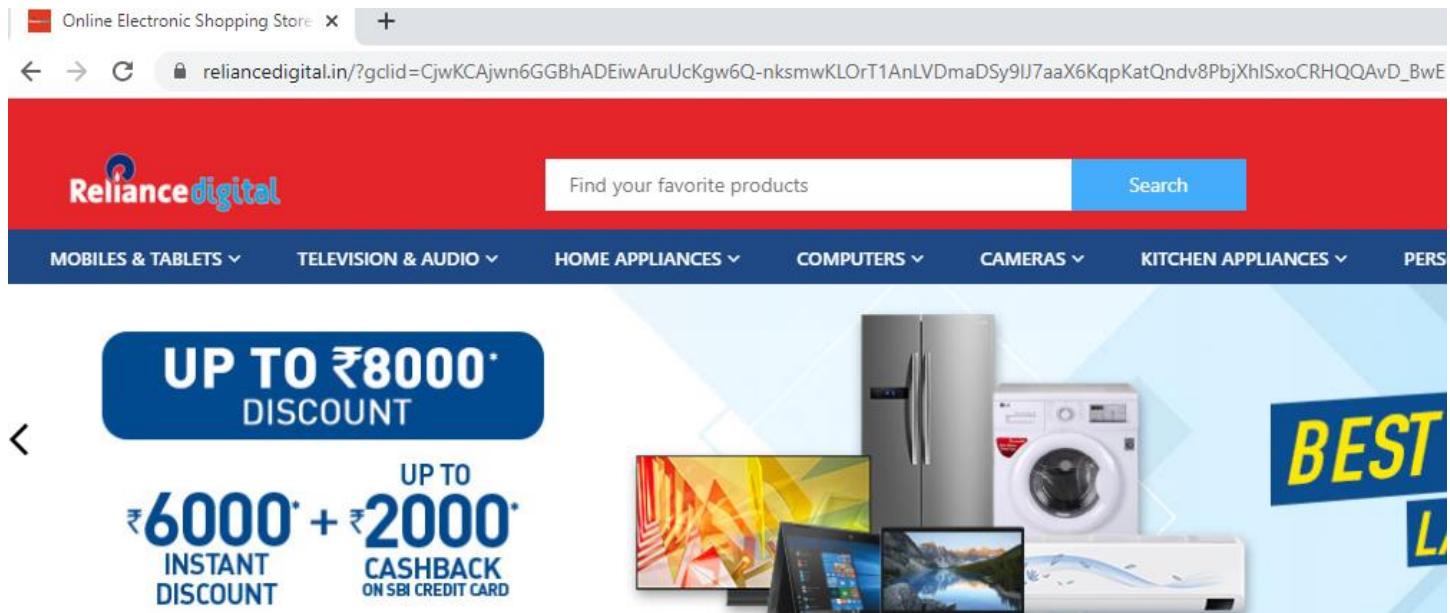
**SAP Commerce Cloud = “SAP Comm” + Cloud**

SAP Comm [New name] = SAP Hybris [Old name]

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Let’s say – We have a requirement to develop shopping site (or) eComm site [Croma ... RelianceDigital ... ShoppersStop ....] then we can use “SAP Comm”.

That means – By using “SAP Comm” – We can create / develop shopping sites (or) eComm Site.



**Q = Do we need to create this shopping site from scratch?**

**Ans = No need.**

Then what?

Right now – we are planning to use “SAP Comm”.

This “SAP Comm” provides templates [**recipes**].

---

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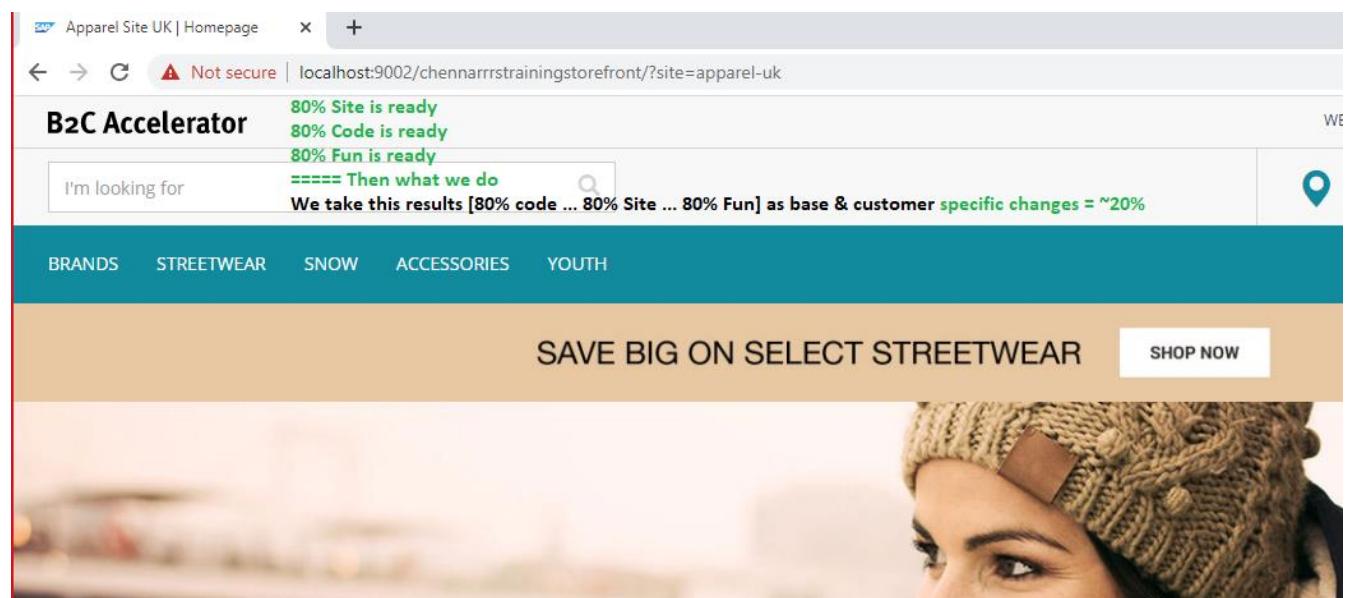
---

**Q = Where can we see the recipes?**

Softwares > Hybris-All > 2011 > CXCOMM201100P_6-70005693 > installer > recipes >			
	Date modified	Type	Size
b2b_china	16-04-2021 06:23	File folder	
b2c_china	16-04-2021 06:23	File folder	
cx	16-04-2021 06:23	File folder	
cx_old_occ	16-04-2021 06:23	File folder	
cx_old_occ_v1	16-04-2021 06:23	File folder	

**Note = We need to install this recipe.**

**Q = What is the advantage of the installation (or) What we get after the installation?**



**== We also get small software like: -**

- 1) Backoffice
- 2) Product Cockpit
- 3) Smart Edit
- 4) CS Cockpit
- 5) =====

## SAP Comm Installation?

**Note** = We install the “SAP Comm” for development (or) demo purpose.

We don’t install “SAP Comm” for “QA / UAT / Prod”. Bcoz – Whatever we have done for development will be moved into “QA Env ... UAT Env ... Prod Env ...].

## System Requirements =

Demonstration/Development	Minimum	Recommended
CPU	Dual Core, for example i5	Quad Core, for example i7
RAM [2]	8 GB	16 GB
Hard Disk [3]	7200 rpm IDE	SSD [2]
Hard Disk Space	10 GB	20 GB



If Prod System then Recommended Hard Disk > 40 GB

## Version =

The screenshot shows the SAP Help Portal interface for SAP Commerce. At the top, there are two tabs: "Apparel Site UK | Homepage" and "SAP Commerce - SAP Help Portal". Below the tabs, the URL is help.sap.com/viewer/product/SAP\_COMMERCER/1808/en-US?task=discover\_task. The main header says "SAP Help Portal" and "SAP Commerce". The page title is "SAP Commerce 1808". A dropdown menu labeled "Versions" is open, showing a list of versions: 2011, 2005, 1905, 1811, 1808, 6.7.0 \*, 6.6.0 \*, 6.5.0 \*, 6.4.0 \*, 6.3.0 \*, and 6.2.0 \*. The "2005" version is highlighted with a green arrow pointing to it. A callout bubble next to the 6.0.0 version states: "\* This version is out of mainstream".

**Note** = Training will be covered with 2005.

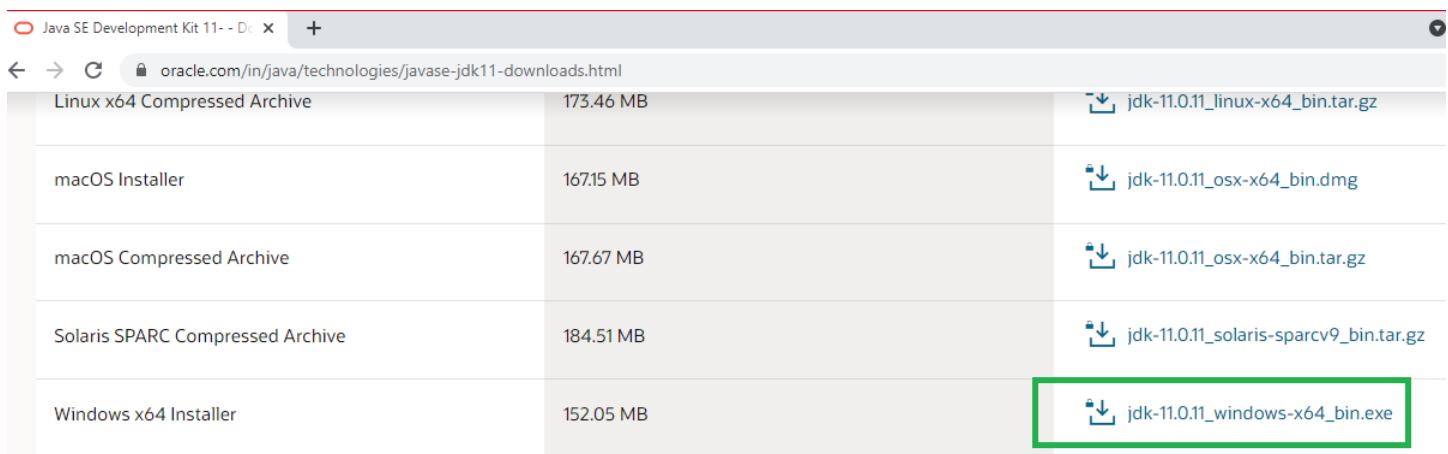
**Note** = “SAP Comm” uses the Java.

1808 / 1811 == Java 8

1905 / **2005** / 2011 == **Java 11**

**Step 1** = Download the Java 11 & Install it

<https://www.oracle.com/in/java/technologies/javase-jdk11-downloads.html>

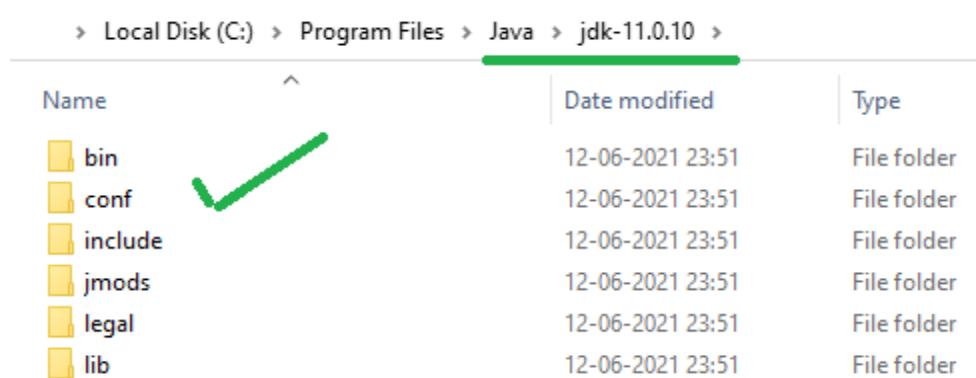


The screenshot shows the Oracle Java SE Development Kit 11 download page. It lists several download options:

Platform	File Type	Size	Action
Linux x64 Compressed Archive	jdk-11.0.11_linux-x64_bin.tar.gz	173.46 MB	
macOS Installer	jdk-11.0.11_osx-x64_bin.dmg	167.15 MB	
macOS Compressed Archive	jdk-11.0.11_osx-x64_bin.tar.gz	167.67 MB	
Solaris SPARC Compressed Archive	jdk-11.0.11_solaris-sparcv9_bin.tar.gz	184.51 MB	
Windows x64 Installer	jdk-11.0.11_windows-x64_bin.exe	152.05 MB	

==== Now install it

**Results** =



Name	Date modified	Type
bin	12-06-2021 23:51	File folder
conf	12-06-2021 23:51	File folder
include	12-06-2021 23:51	File folder
jmods	12-06-2021 23:51	File folder
legal	12-06-2021 23:51	File folder
lib	12-06-2021 23:51	File folder

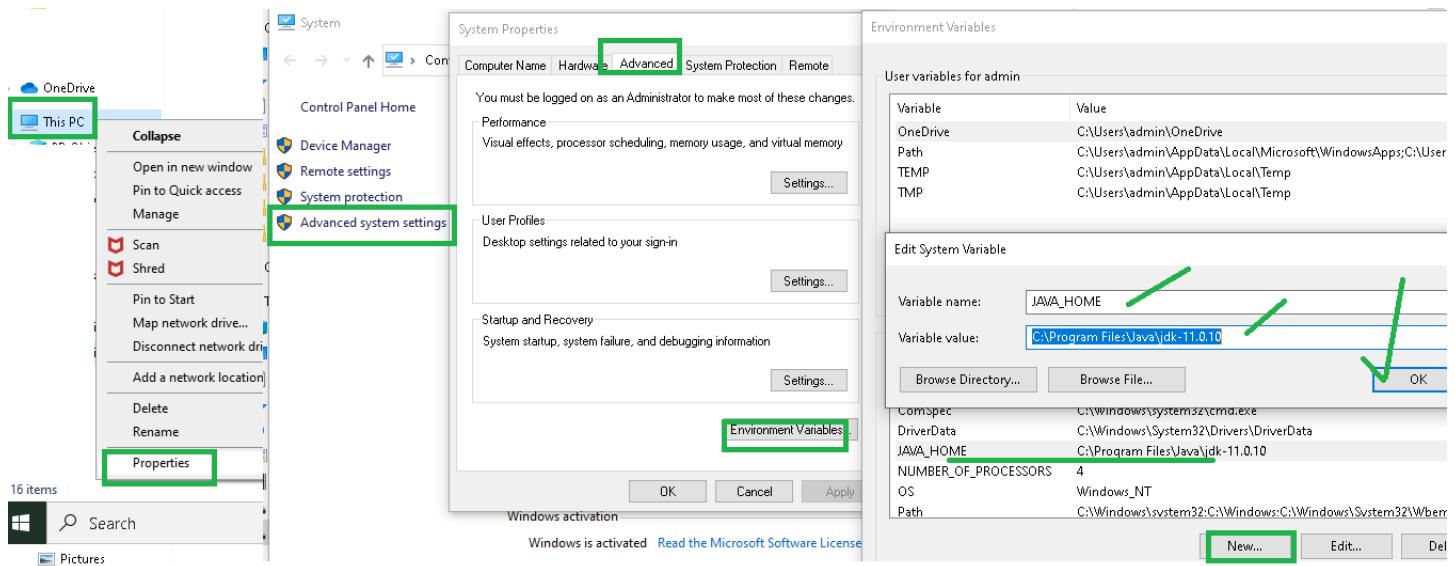
## Step 2 = Set the “Java” Path

### JAVA\_HOME

RMB – This PC -- Properties -- Advanced system settings -- Advanced -- Environment Variables -- New [System variables]

Variable name = JAVA\_HOME

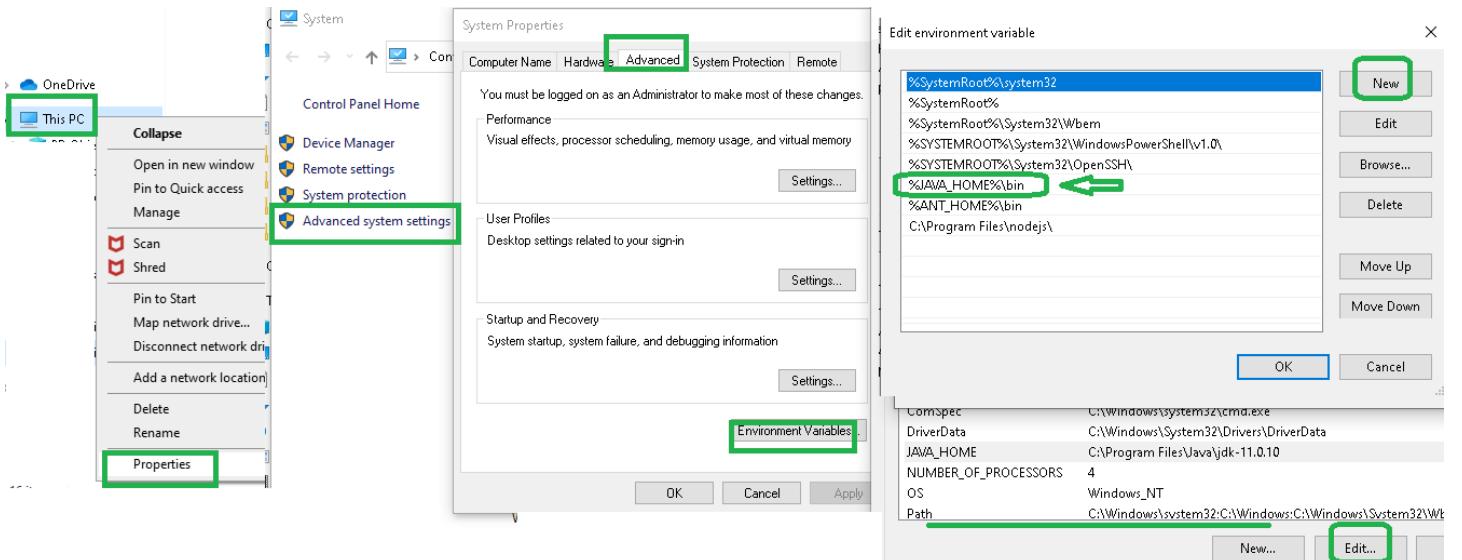
Variable Value = C:\Program Files\Java\jdk-11.0.10



### Path

= RMB – This PC -- Properties -- Advanced system settings -- Advanced -- Environment Variables -- Path [Select] -- Edit

%JAVA\_HOME%\bin



**Q = How to check Java Path is set correctly (or) not?**

C:\Users\admin>**java -version**

```
C:\Users\admin>java -version
java version "11.0.10" 2021-01-19 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.10+8-LTS-162)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.10+8-LTS-162, mixed mode)
```

**Step 3 = Download “SAP Comm” software**

**Q = From where can we able to download “SAP Comm” software?**

URL = <https://launchpad.support.sap.com/#/softwarecenter/search>

The screenshot shows the SAP Software Downloads search results for 'SAP%2520Commerce'. The search bar has 'SAP%2520Commerce' entered. The 'Downloads' and 'SAP Commerce' buttons in the top navigation bar are highlighted with green boxes. On the left, under 'SOFTWARE CATEGORIES', 'SAP COMMERCE' and 'SAP Commerce' are listed. On the right, the 'SAP COMMERCE' section for 'SAP Commerce' is shown with tabs for 'DOWNLOADS', 'INFO', and 'ECCN INFO'. The 'SAP COMMERCE 2005' download link is highlighted with a green box and has a green arrow pointing to it.

**Contact Us = ChennaReddyTraining@RRRS.CO.IN**

Name	Date modified
CXCOM200500P_0-70004955	21-05-2020 12:57

## Software - After download

**Note** = To download the “SAP Comm” software – You need to have valid **SID** with download permissions.

**Q** = Who can able to download “SAP Comm” software?

- 1) SAP Employee
- 2) SAP Commerce Customer
- 3) SAP Commerce Implementation Partner

What is the difference between an SAP Certified Partner and an SAP Certified Solution?



**SAP® Certified**  
Powered by SAP NetWeaver®

**SAP® Certified**  
Hardware for SAP HANA®

## Step 4 = Unzip “SAP Comm” software.

“SAP Comm” software is delivered for us as a “Suite / ZIP file”.

To unzip this – We can use “**7-Zip** / WinZip / ...”

==== Download the “7-Zip” software & install it.

URL = <https://www.7-zip.org/download.html>

The screenshot shows the 7-Zip download page. At the top, there are three tabs: "Apparel Site UK | Homepage", "SAP Commerce - SAP Help Portal", and "Download". The URL in the address bar is "7-zip.org/download.html". On the left, there's a sidebar with links: Home, 7z Format, LZMA SDK, and Download. The main content area is titled "Download 7-Zip 19.00 (2019-02-21) for Windows:". It features a table with two rows:

Link	Type	Windows	Description
<a href="#">Download</a>	.exe	32-bit x86	7-Zip for 32-bit Windows
<a href="#">Download</a>	.exe	64-bit x64	7-Zip for 64-bit Windows x64 (Intel 64 or AMD64)

===== Unzip the software

The screenshot shows a file context menu for a ZIP archive named "CXCOM200500P\_0-70004955". The menu items are: Open, 7-Zip, CRC SHA, and Edit with Notepad++. The "7-Zip" option is highlighted with a green box. To its right, a submenu is open with options: Open archive, Extract to "CXCOM200500P\_0-70004955\" (which is also highlighted with a green box), and Test archive.

Results =

The screenshot shows the contents of the extracted folder "CXCOM200500P\_0-70004955". It contains five subfolders: build-tools, hybris, hybris-sbg, installer, and licenses. All subfolders were created on 11-05-2020 at 11:24.

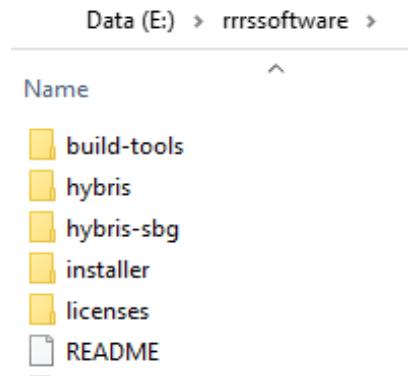
Name	Date modified	Type
build-tools	11-05-2020 11:24	File folder
hybris	11-05-2020 11:22	File folder
hybris-sbg	11-05-2020 11:24	File folder
installer	11-05-2020 11:24	File folder
licenses	11-05-2020 11:24	File folder

SAP Comm Location (or) SAP Comm Path =

E:\Softwares\Hybris-AII\2005\CXCOM200500P\_0-70004955

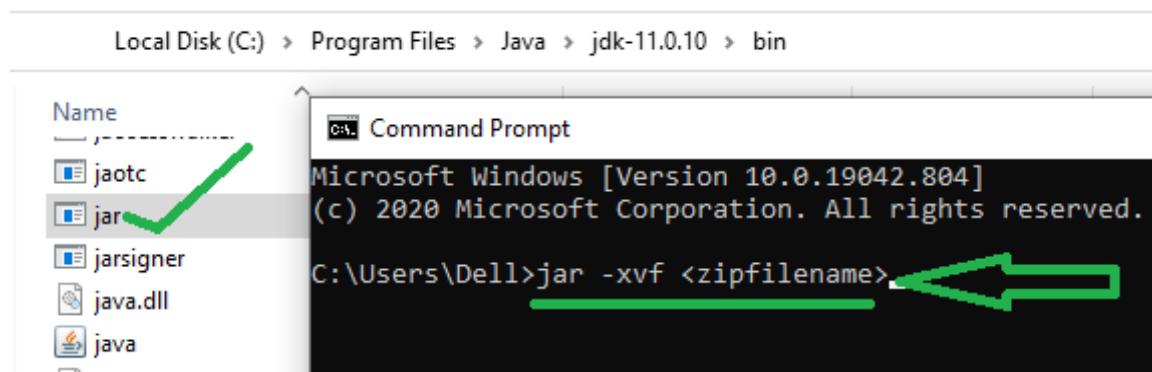
**Best Practice** = Try to avoid “Spaces / \_ / - / ...” in the Path.

**Results** = After moving “SAP Comm” software into proper folder.



SAP Comm Path (or) SAP Comm Location = E:\rrrssoftware

**Note** = If Ur company is not having “7-Zip / WinZip / ...” then what to do?



## Step 5 = Set the “ANT” Path

In “SAP Comm” we have lots of code. This code we need to do the build [compile]. For build purpose – We can use software like “**ANT** / Maven / ....”. Right now – Let’s use ANT tool for build purpose.

Bcoz – **ANT** is part of “SAP Comm” software [**No need** to download separately].

**Q** = Where can we see the ANT details?

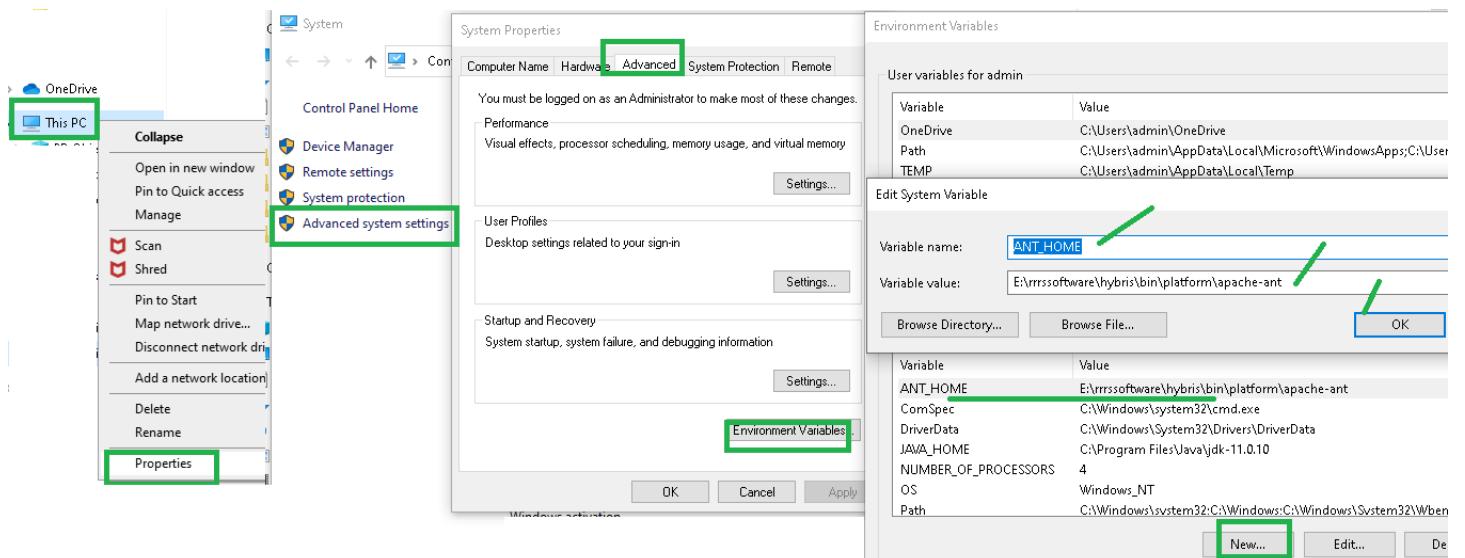
Data (E:) > rrrsssoftware > hybris > bin > platform > apache-ant >			
Name	Date modified	Type	Size
bin	02-11-2020 16:57	File folder	
etc	02-11-2020 16:57	File folder	
lib	02-11-2020 16:57	File folder	

## **ANT\_HOME**

RMB – This PC -- Properties -- Advanced system settings -- Advanced -- Environment Variables -- New [System variables]

Variable name = **ANT\_HOME**

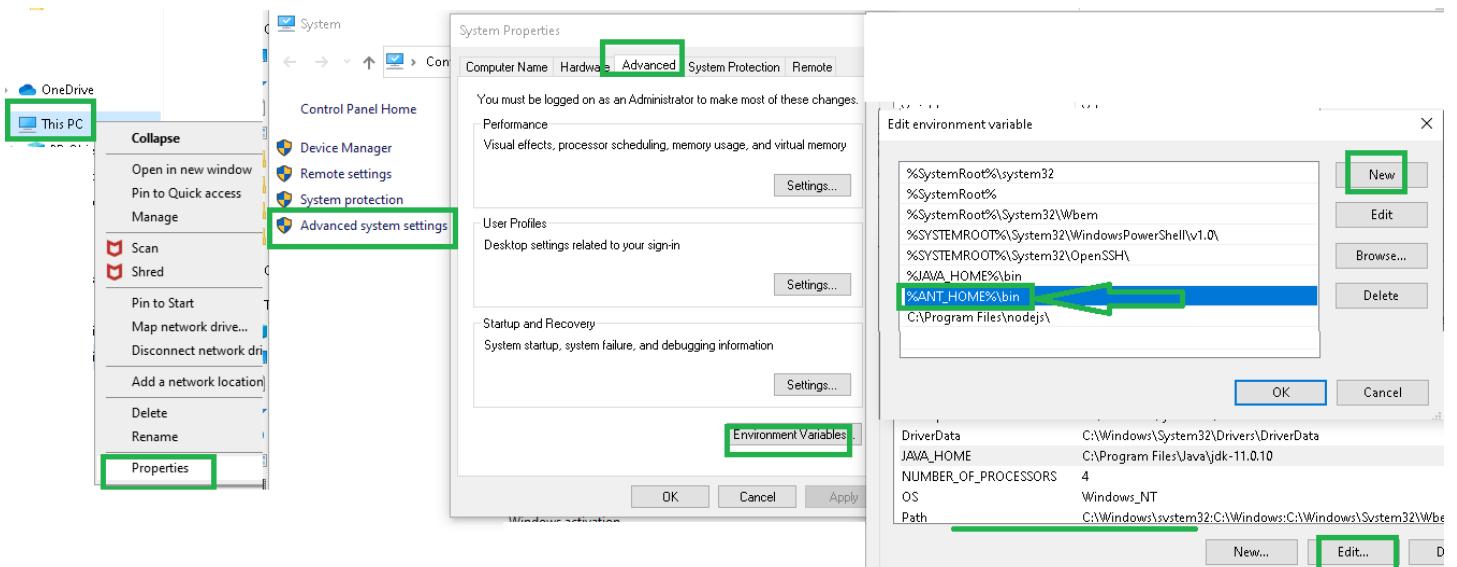
Variable Value = E:\rrrsssoftware\hybris\bin\platform\apache-ant



## Path

RMB – This PC -- Properties -- Advanced system settings -- Advanced -- Environment Variables -- Path [Select] – Edit

%ANT\_HOME%\bin



Q = How to check ANT Path is set correctly (or) not?

C:\Users\admin>ant -version

```
Command Prompt
C:\Users\admin>ant -version
Apache Ant(TM) version 1.10.9 compiled on September 27 2020
C:\Users\admin>
```

## Step 6 = Set the **admin** user password

This step is not required / Optional if you are installation the old version.

6.X / 1808 / 1811 == This **step is not** required / Optional.

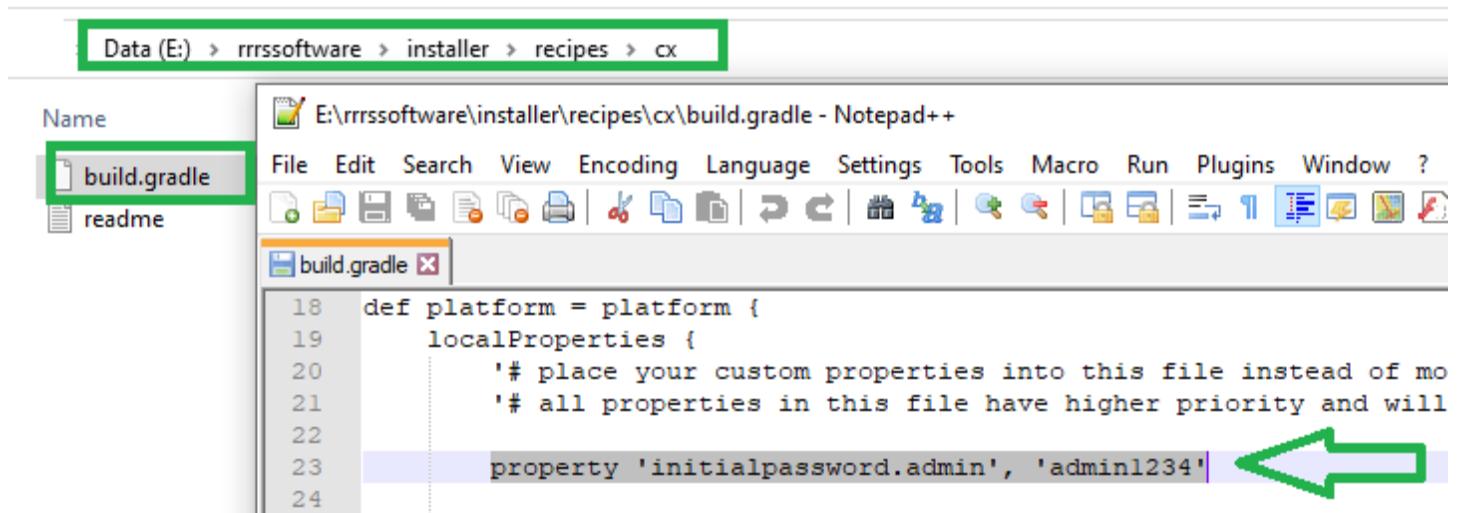
==== In old versions, the **admin** user default password **nimda**.

This gives “**Security breach**” challenges.

To over come this “Security breach” challenges ... In latest version “SAP Comm” force us to set the admin user password.

1905 / 2005 / 2011 === Setting the admin user password is mandatory.

**Q = How to set the admin user password.**



The screenshot shows a Notepad++ window with the following details:

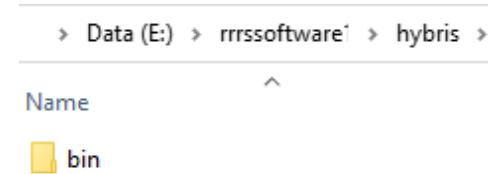
- File Path: Data (E:) > rrrssoftware > installer > recipes > cx
- File Name: build.gradle
- Content of build.gradle:

```
18 def platform = platform {
19     localProperties {
20         ...
21         '# place your custom properties into this file instead of mo
22         '# all properties in this file have higher priority and will
23         property 'initialpassword.admin', 'admin1234'
```

- A green arrow points to the line "property 'initialpassword.admin', 'admin1234'".

## Step 7 = Install the “SAP Comm” (or) Install the Recipe.

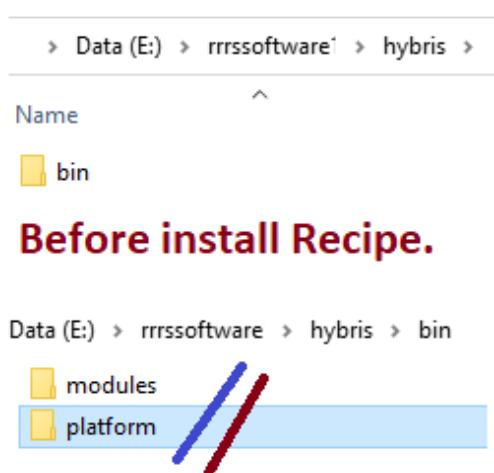
Before install recipe



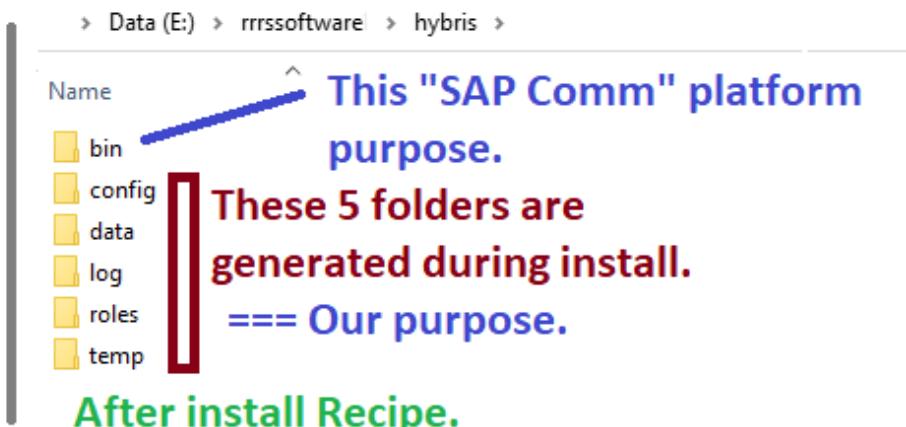
**Q = How to install the recipe?**

**Syntax = E:\rrrssoftware\installer>install.bat -r cx**

A screenshot of a Windows Command Prompt window titled 'cmd C:\Windows\System32\cmd.exe'. The window shows the command 'E:\rrrssoftware\installer>install.bat -r cx' being run. Below the command, the output shows 'Total time: 9 seconds' and 'BUILD SUCCESSFUL in 1m 14s 2 actionable tasks: 2 executed'. Two green arrows point from the bottom of the command line and the output text towards the right side of the window.



**Before install Recipe.**



**After install Recipe.**

**Generally -- We don't modify anything which is there inside "modules (or) platform" folders.**

In Java – 1<sup>st</sup> you create project & inside the project you create the files & then write the code.

In “SAP Comm” – 1<sup>st</sup> you create Exts & inside the Exts you create the files & then write the code.

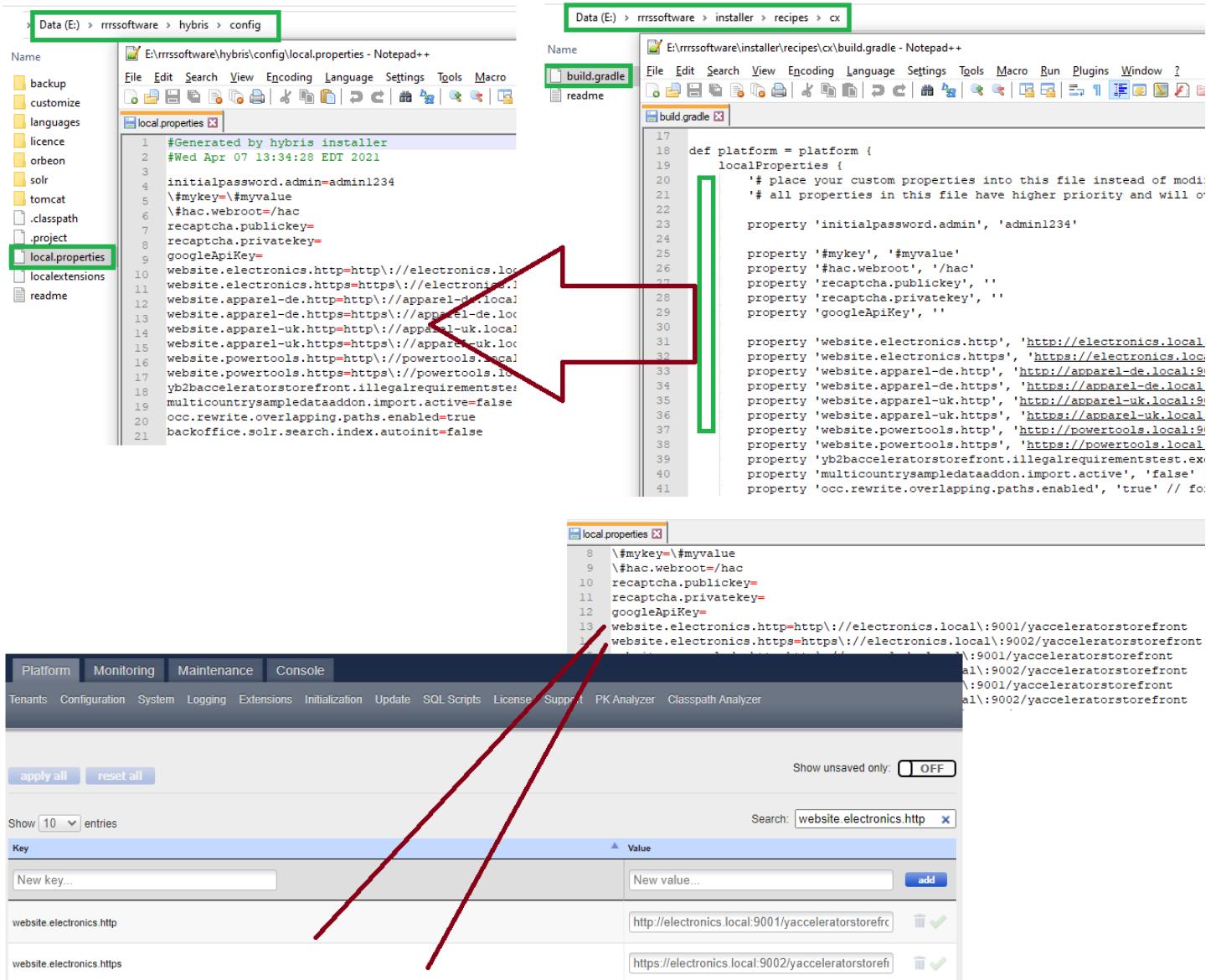
In Java – Project === “SAP Comm” – **Exts**.

**Q = What is the importance of “**localeextensions.xml**”?**

The diagram illustrates the configuration flow from development files to a live application. It consists of four main components:

- Top Left:** A Notepad++ window showing the contents of `E:\rrrsoftware\hybris\config\localeextensions.xml`. The file contains XML definitions for various Hybris extensions like adaptive search, assisted services, and API registry.
- Top Right:** A Notepad++ window showing the contents of `E:\rrrsoftware\installer\recipes\cx\build.gradle`. This file includes a block of code that reads the `localeextensions.xml` file to define extension points.
- Bottom Left:** A screenshot of a web browser displaying the "Apparel Site UK | Homepage" at `localhost:9002/chennarrstrainingstorefront/?site=apparel-uk`. The page shows a navigation bar with "B2C Accelerator" and "OOTB Site", and a search bar.
- Bottom Right:** A Notepad++ window showing the contents of `E:\rrrsoftware\hybris\config\localeextensions.xml`, identical to the one in the top-left. A large black arrow points from this file towards the live application screenshot.

## Q = What is the importance of “local.properties”?



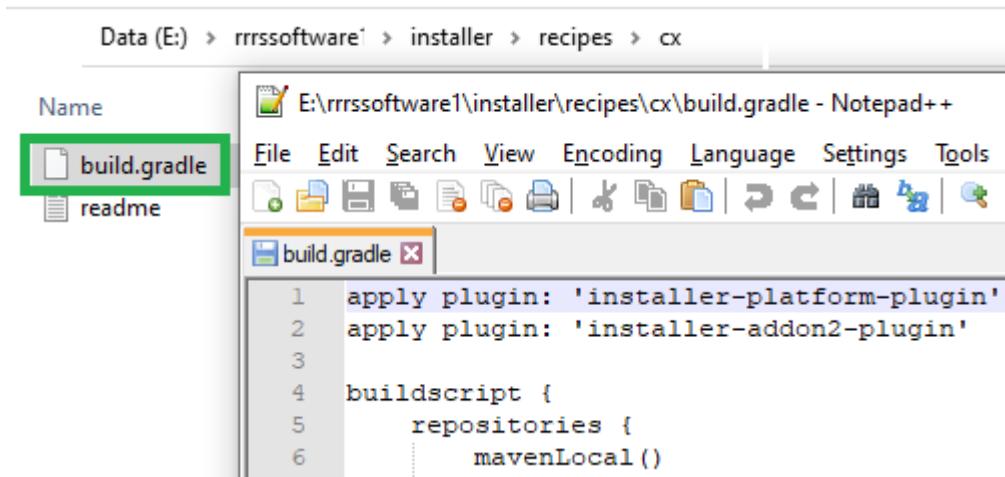
## Q = What install.bat do? (or) What install does?

- 1) It checks the required “SAP Comm” directory structure [config ... data ... roles ... temp ... log ...] is there (or) not.  
If **there** then it will **skip** creating those 5 folders.  
If **not there** then it will **create** those 5-folder structure.
- 2) It checks “config\local.properties & config\localextensions.xml” files.  
If these files are there then it will **delete & re-create** again.

- If those files are not there then it **will create** those files.
- 3) Update “config\local.properties & config\localextensions.xml” files with entries.
  - 4) Perform the build and ...
  - 5) =====

**Q = What “build.gradle” contains?**

- 1) Local Properties
- 2) Extensions
- 3) Addons
- 4) DB Configurations
- 5) Tasks
  - a. createStoreFrontExt
  - b. setup
  - c. buildSystem
  - d. initialize
  - e. start
  - f. startInBackground
  - g. stopInBackground



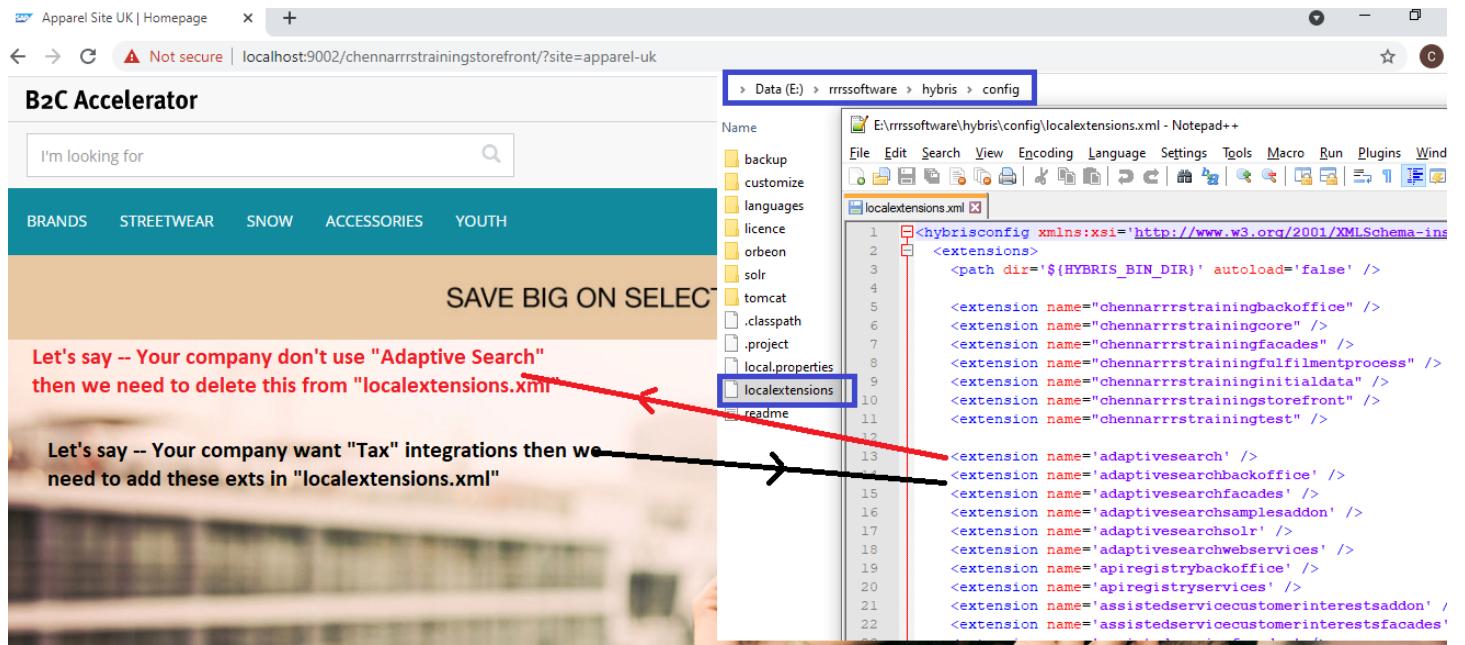
The screenshot shows a Windows file explorer window and a Notepad++ editor window. The file explorer shows a folder structure: Data (E:) > rrrssoftware1 > installer > recipes > cx. Inside the cx folder, there are two files: build.gradle (highlighted with a green box) and readme. The Notepad++ editor window has the title "E:\rrrssoftware1\installer\recipes\cx\build.gradle - Notepad++". The code in the editor is:

```
1 apply plugin: 'installer-platform-plugin'
2 apply plugin: 'installer-addon2-plugin'
3
4 buildscript {
5     repositories {
6         mavenLocal()
```

## Step 8 = [Optional] Change the functional scope

Adding required Exts inside “config\localextensions.xml” (or) Removing Exts which are not required from “config\localextensions.xml” is called “Changing the functional the scope”.

Right now – We want to use same whatever provided OOTB.

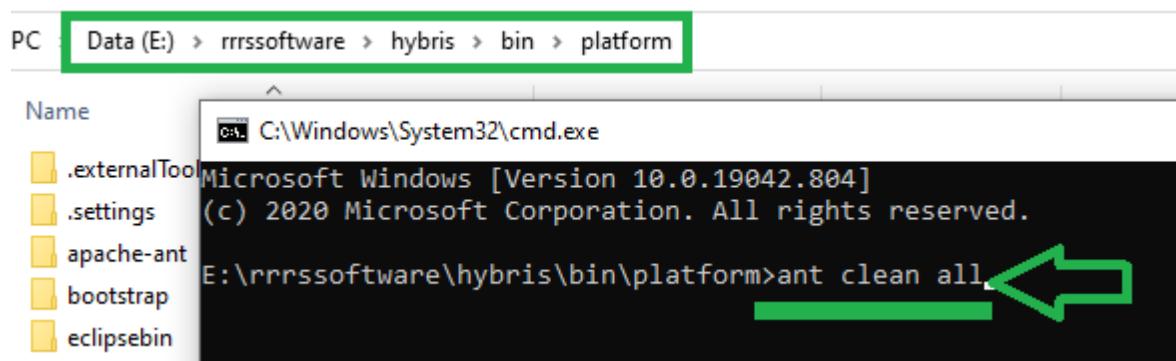


## Step 9 = Do the Build

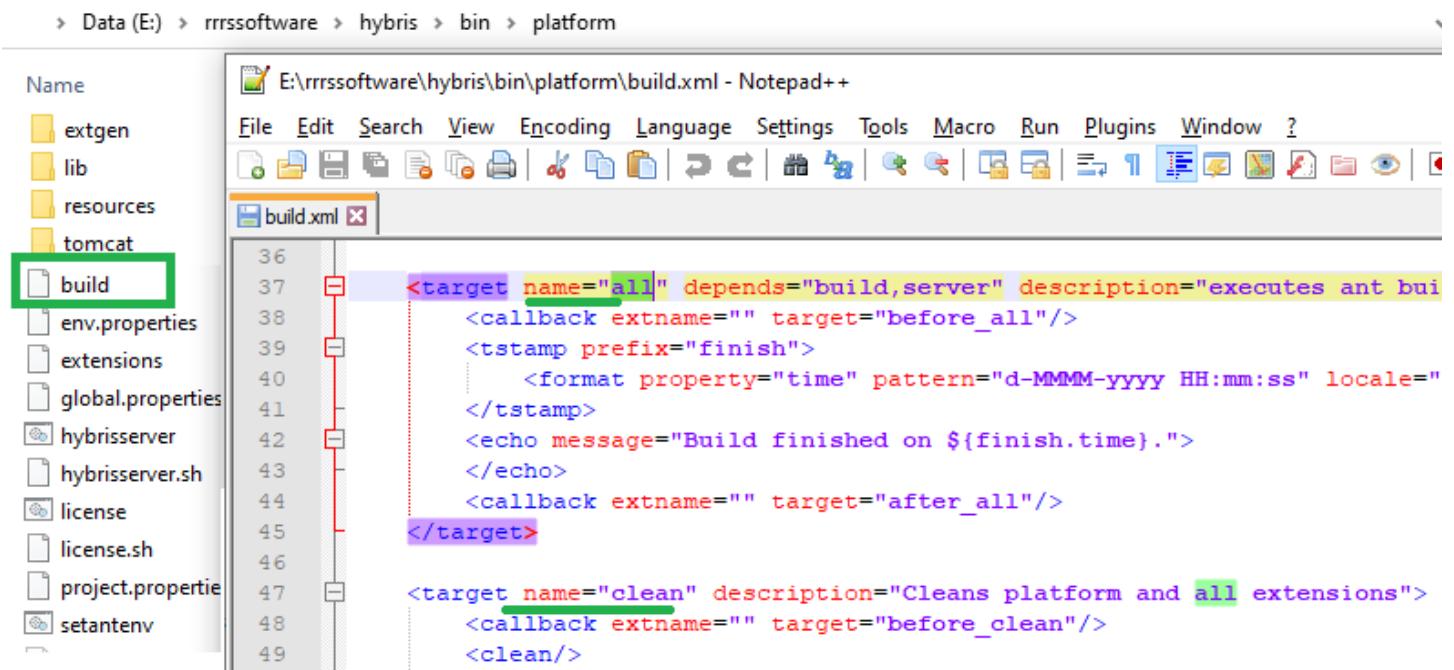
For build purpose – We can use “**ANT** / Maven / ...”.

Bcoz – ANT is part of “SAP Comm” software.

**Syntax** = E:\rrrssoftware\hybris\bin\platform>**ant clean all**



## ANT uses “build.xml”:-



The screenshot shows a Windows file explorer window with the path "Data (E:) > rrrssoftware > hybris > bin > platform". Below it is a Notepad++ editor window titled "E:\rrrssoftware\hybris\bin\platform\build.xml - Notepad++". The left sidebar lists files: extgen, lib, resources, tomcat, build (selected), env.properties, extensions, global.properties, hybrisserver, hybrisserver.sh, license, license.sh, project.properties, and setantenv. The main pane displays the XML code for build.xml:

```
<target name="all" depends="build,server" description="executes ant bui
<callback extname="" target="before_all"/>
<tstamp prefix="finish">
<format property="time" pattern="d-MMM-yyyy HH:mm:ss" locale=
</tstamp>
<echo message="Build finished on ${finish.time}."/>
</echo>
<callback extname="" target="after_all"/>
</target>

<target name="clean" description="Cleans platform and all extensions">
<callback extname="" target="before_clean"/>
<clean/>
```

**Q = What are the important “ant” target in “build.xml”?**

build	deploy	all	clean
sonarcheck	extgen	modulegen	initialize
gradle	production	importImpex	codequality
customize	runcronjob	unitests	updatesystem
executeScript	=====		

**Note =**

For build purpose – we can use “**ant all**” (or) “**ant clean all**”

1<sup>st</sup> time = Let’s use “**ant clean all**”.

## Q = What is the difference between “ant all” & “ant clean all”?

The image shows two separate command-line windows. The top window is titled "ant clean all" and displays the following output:

```
C:\Windows\System32\cmd.exe
[echo] Build finished on 21-June-2019 23:41:43.
[echo]
BUILD SUCCESSFUL
Total time: 10 minutes 8 seconds
C:\rrrsssoftware\HYBRISCOMM64\hybris\bin\platform>
```

The bottom window is titled "ant all" and displays the following output:

```
C:\Windows\System32\cmd.exe
all:
[echo] Build finished on 21-June-2019 23:45:59.
[echo]
BUILD SUCCESSFUL
Total time: 3 minutes 34 seconds
C:\rrrsssoftware\HYBRISCOMM64\hybris\bin\platform>
```

a.java  
=====

```
line1
line2
line3
```

====> Do the Build  
====> After Build you get .... a.class

a.class  
=====

```
abcd1
abcd2
abcd3
```

Note: - Assume that, U want to add another line of code in "a.java"

a.java  
=====

```
line1
line2
linex
line3
```

ant clean all: -  
=====

~~a.class~~  
=====

Existing build is deleted

a.class: -  
===== Recreates again

```
abcd1
abcd2
linexxx
abcd3
```

ant all: -  
=====

a.class  
=====

```
abcd1
abcd2
linexxx
abcd3
```

It just modifies the build

### Q: When do i use "ant all" & "ant clean all"?

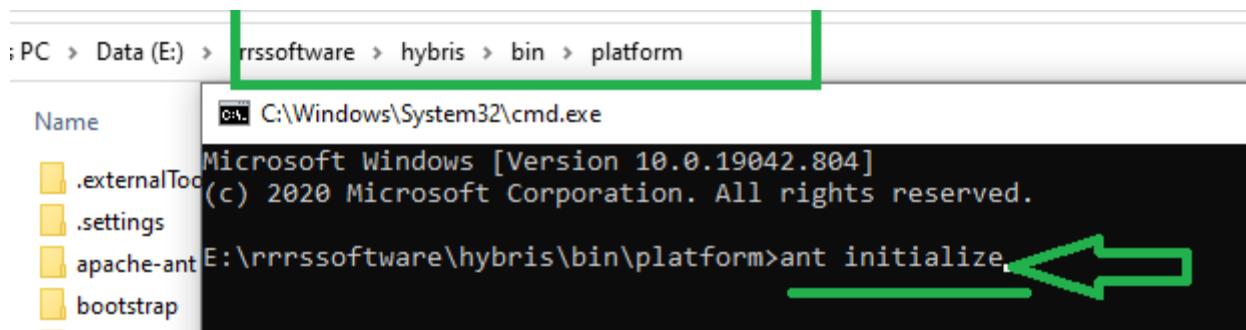
1) If you are setting up 1st time then use "ant clean all".

Next time onwards use "ant all".

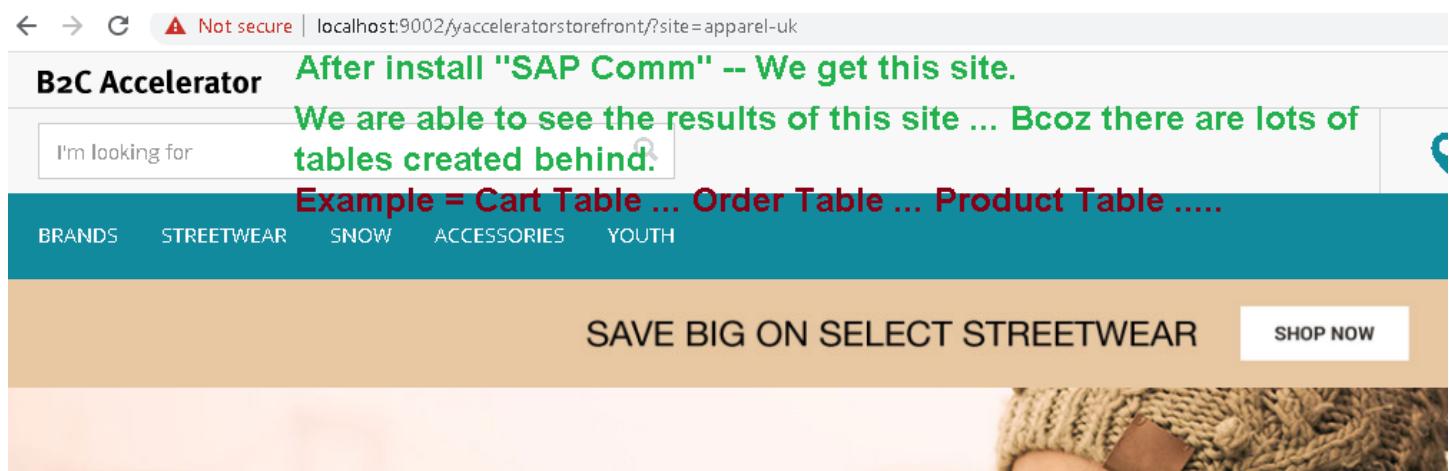
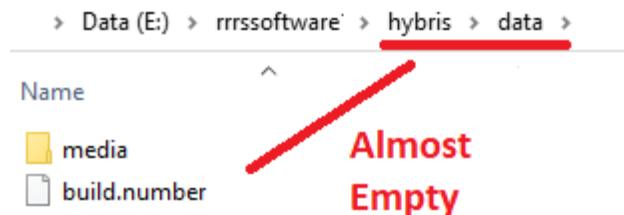
2) If your changes are not reflecting properly -- then use "ant clean all"

## Step 10 = Do the Initialization [INIT]

Syntax = E:\rrrssoftware\hybris\bin\platform>ant initialize



Before performing initialization – Data folder is almost empty.



That mean – You take any eComm site ... There will be some common tables like – “Cart ... Order ... User ... Product ... Category ... Catalog ... ”.

**Q** = Do we need to write code / logic to create those tables [Cart ... Order ... User ... Product ...]?

**Ans** = No need.

Bcoz – “SAP Comm” already giving code / logic for these tables.

**Q** = Where can we see the code / details of those tables?

**Ans** = **\*-items.xml**

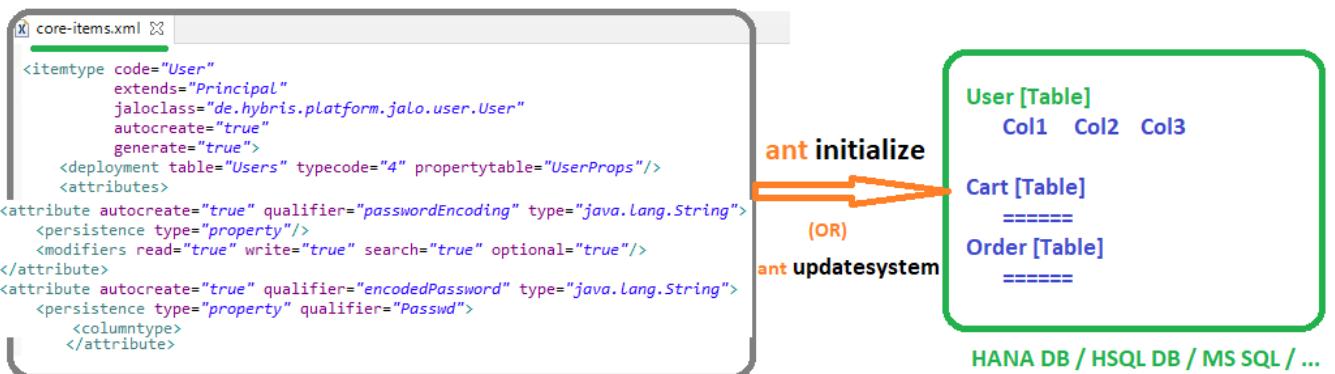
```
<itemtype code="User"
  extends="Principal"
  jaloclass="de.hybris.platform.jalo.user.User"
  autocreate="true"
  generate="true">
  <deployment table="Users" typecode="4" propertytable="UserProps"/>
  <attributes>
    <attribute autocreate="true" qualifier="currentTime" type="java.util.Date">
```

Now – what to do?

We need to execute this code / logic – So that table will be created in respective DB [Oracle ... MS SQL ... HANA ... HSQL ...].

**Q** = How to execute this **\*-items.xml** code / logic?

**Ans** = By performing platform “**Initialization (or) Update**”



===== Database table will be created during “Initialization (or) Update” based on **\*-items.xml** files.

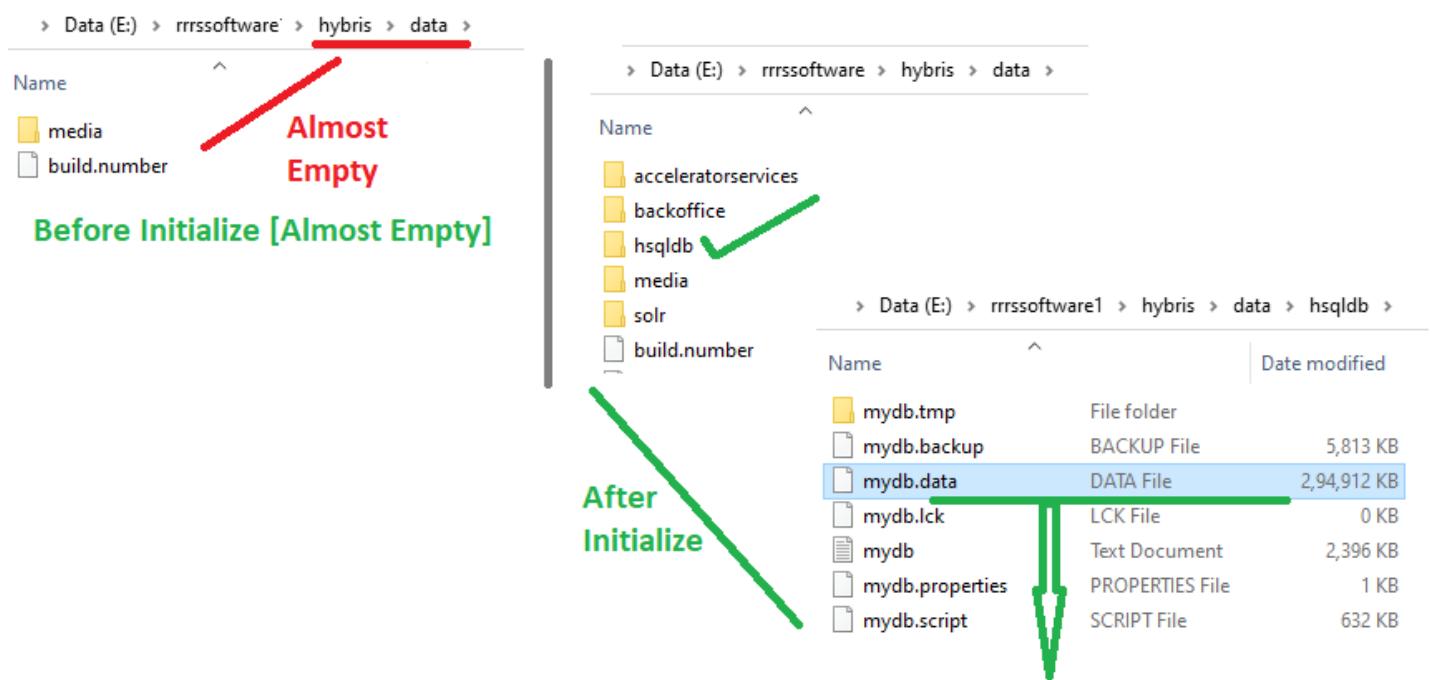
~ > Local Disk (E:) > rrrssoftware > hybris > bin > platform

The screenshot shows a Windows Command Prompt window titled 'cmd.exe' running on 'Microsoft Windows [Version 10.0.18363.1500]'. The command 'E:\rrrssoftware\hybris\bin\platform>ant initialize' is being typed. A green double-headed arrow points from the text 'It takes "1 - 3" Hrs depends on your PC.' at the bottom to the command line. To the left of the window, there is a file browser showing a folder structure with files like '.externalTool', '.settings', 'apache-ant', 'bootstrap', 'ext', and 'extgen'.

It takes "1 - 3" Hrs depends on your PC.

**Note** = When INIT happening: -

- 1) Make sure you are **not closing** the command window
- 2) Make sure your system is **not going sleeping mode**



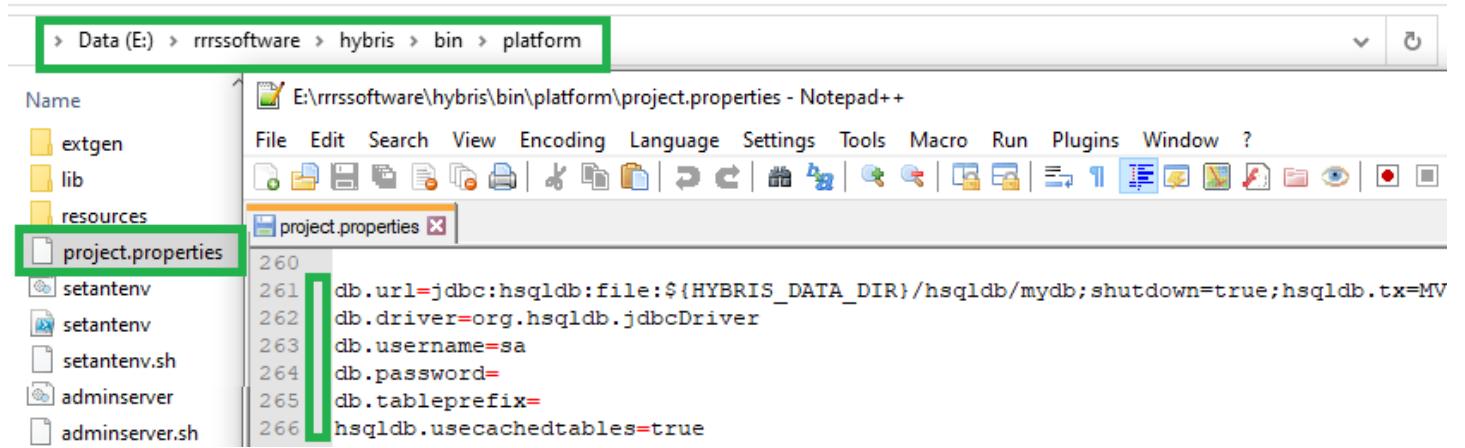
**Conclusion** = "SAP Comm" by default comes with "**HSQldb**".

HSQldb (HyperSQL DataBase) is the leading SQL relational database system written in Java. URL = <http://hsqldb.org/>

---

Contact Us = **ChennaReddyTraining@RRRS.CO.IN**

**Q = Where can we see the “SAP Comm” provided “HSQL DB” settings (or) details?**

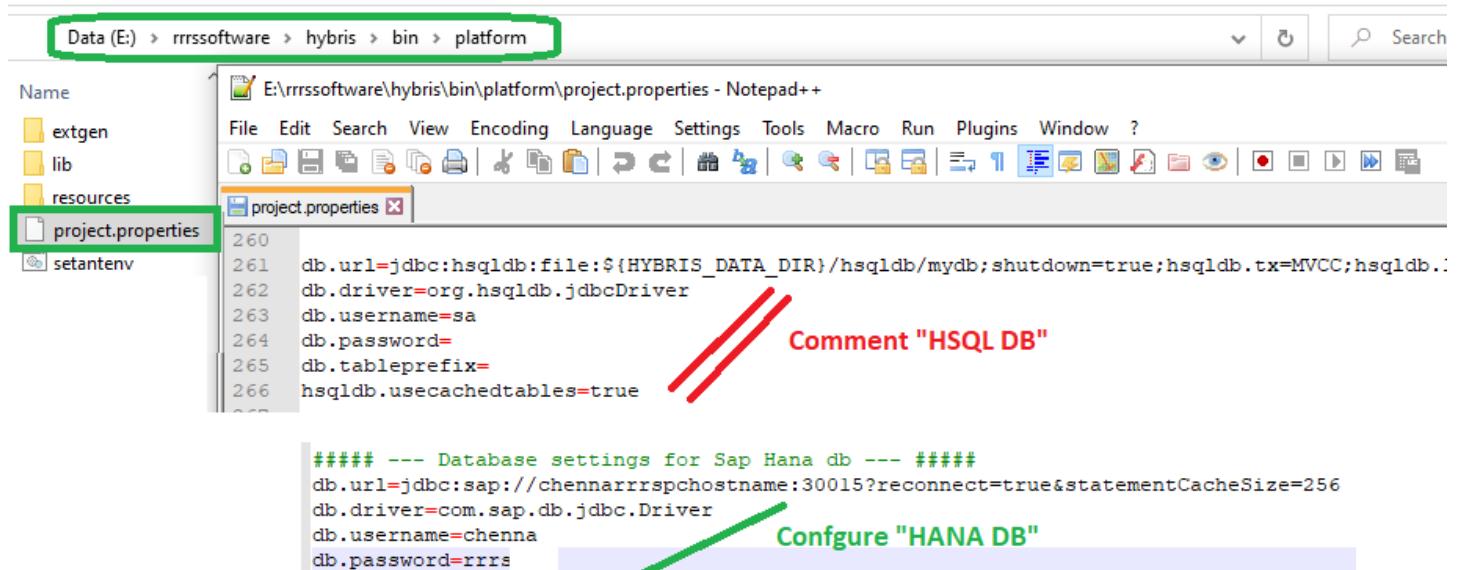


The screenshot shows a Windows file explorer window with the path "Data (E:) > rrrssoftware > hybris > bin > platform". Inside this folder, there is a "project.properties" file and several other files like "extgen", "lib", "resources", "setantenv", "setantenv.sh", "adminserver", and "adminserver.sh". The "project.properties" file is open in Notepad++. The code in the file is:

```
260
261 db.url=jdbc:hsqldb:file:${HYBRIS_DATA_DIR}/hsqldb/mydb;shutdown=true;hsqldb.tx=MVCC;hsqldb.log=true
262 db.driver=org.hsqldb.jdbcDriver
263 db.username=sa
264 db.password=
265 db.tableprefix=
266 hsqldb.usecachedtables=true
```

**Scenario = “SAP Comm” by default provides HSQL DB. But you company want to use “HANA DB / Oracle DB / MS SQL DB / ...”.**

**Q = How to change the DB?**



The screenshot shows the same "project.properties" file in Notepad++ with some changes made. The original HSQLDB configuration is now commented out with two red slashes. A green arrow points to the new SAP Hana configuration, which is enclosed in a blue box. The SAP Hana configuration is as follows:

```
#####
## --- Database settings for Sap Hana db --- #####
db.url=jdbc:sap://chennarrspchostname:30015?reconnect=true&statementCacheSize=256
db.driver=com.sap.db.jdbc.Driver
db.username=chenna
db.password=rsss
```

**== This will work ... No Problem ...**

**But this is not the best practice.**

**Bcoz -- We are doing changes directly inside "E:\rrrssoftware\hybris\bin\platform\project.properties"**

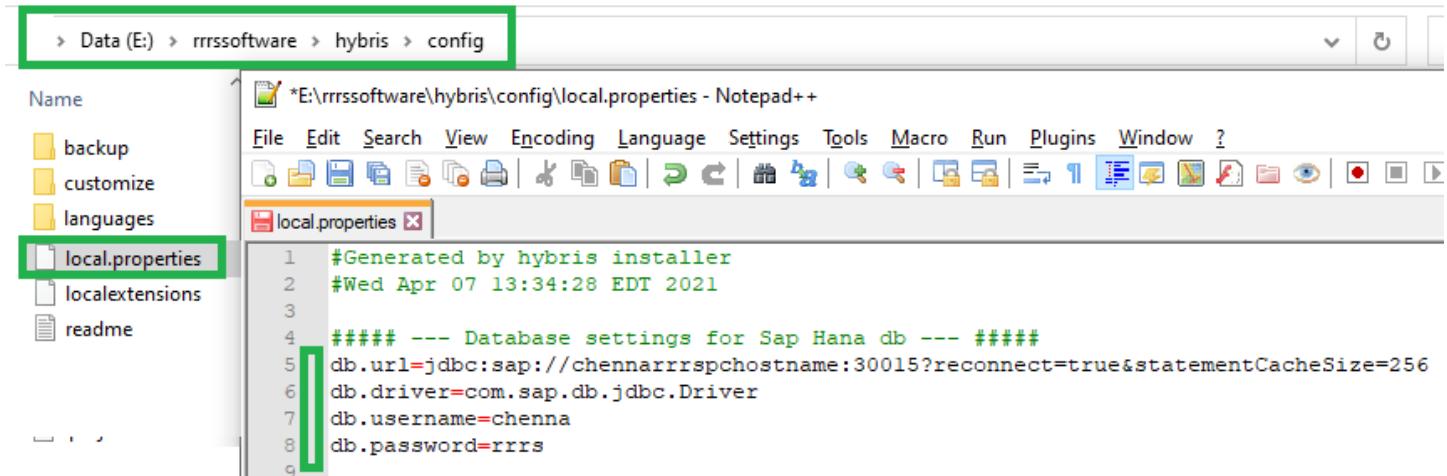
**==== When upgrade happens we replace platform with latest version. Hence our changes will be lost.**

## Then what to do now?

Alternate for “E:\rrrsssoftware\hybris\bin\platform\project.properties” file is “E:\rrrsssoftware\hybris\config\local.properties”

==== Do the changes in “\config\local.properties” Instead of doing the changes in “\platform\project.properties”.

## Solution =



Q = Doing the changes directly inside “platform\project.properties” is not the best practice ... because: -

- 1) File is too big
- 2) Your changes will be ignored
- 3) License problem
- 4) When upgrade happens, our changes will be lost
- 5) All above

The screenshot shows the same Notepad++ window as before, but with a blue horizontal line under the line "# = Comment" in the code. This indicates that the line is a comment. The rest of the file content is identical to the previous screenshot.

```
1 #Generated by hybris installer
2 #Wed Apr 07 13:34:28 EDT 2021
3 # = Comment
4 ##### --- Database settings for Sap Hana db --- #####
5 db.url=jdbc:sap://chennarrrspchostname:30015?reconnect=true&statementCacheSize=256
```

## Step 11 = Start the Server

Syntax = E:\rrrssoftware\hybris\bin\platform>**hybrisserver.bat**

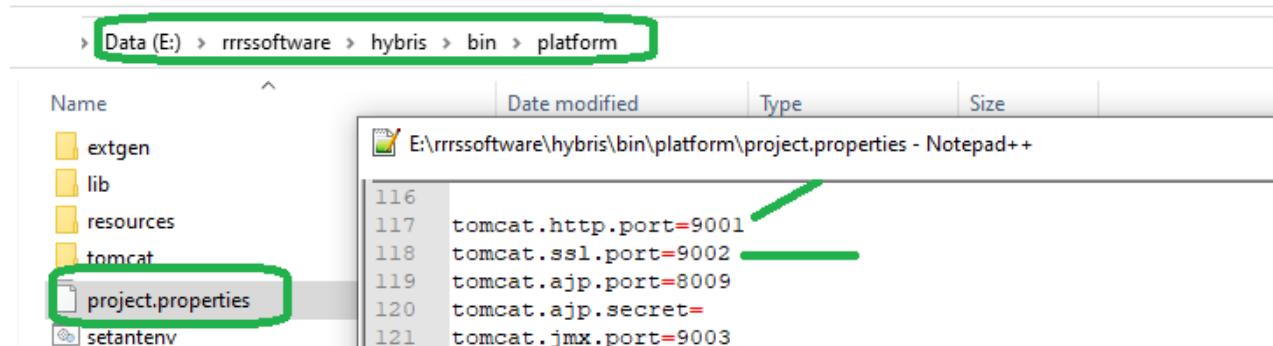
The screenshot shows a Windows file explorer window with the path: Data (E:) > rrrssoftware > hybris > bin > platform. A green arrow points from the 'platform' folder to a command prompt window titled 'C:\Windows\System32\cmd.exe'. The command prompt displays the Windows version (10.0.19042.804) and rights information. Below the title bar, the command 'E:\rrrssoftware\hybris\bin\platform>hybrisserver.bat' is entered, with a green arrow pointing to it. The command prompt then outputs server startup logs, including protocol handlers and Catalina startup details.

```
Microsoft Windows [Version 10.0.19042.804]
(c) 2020 Microsoft Corporation. All rights reserved.

E:\rrrssoftware\hybris\bin\platform>hybrisserver.bat

Jun 16, 2021 6:39:13 AM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-nio-9001"]
Jun 16, 2021 6:39:13 AM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["https-jsse-nio-9002"]
Jun 16, 2021 6:39:13 AM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-nio-127.0.0.1-8009"]
Jun 16, 2021 6:39:13 AM org.apache.catalina.startup.Catalina start
INFO: Server startup in 4020649 ms
```

Q = Where can we see the Hybris Server Configuration Details?



Q = Where can we see the Hybris Server Details?

The screenshot shows a Windows file explorer window with the path: Data (E:) > rrrssoftware > hybris > bin > platform. A green checkmark is placed next to the 'hybrisserver' file. The table lists the files in the folder:

Name	Date modified	Type	Size
extgen	02-11-2020 16:57	File folder	
lib	02-11-2020 16:57	File folder	
hybrisserver	02-11-2020 16:12	Windows Batch File	1 KB
hybrisserver.sh	02-11-2020 16:12	SH File	1 KB

## Step 12 = Results [What we get after “SAP Comm” installation]

Data (E:) > rrrssoftware > installer > recipes >

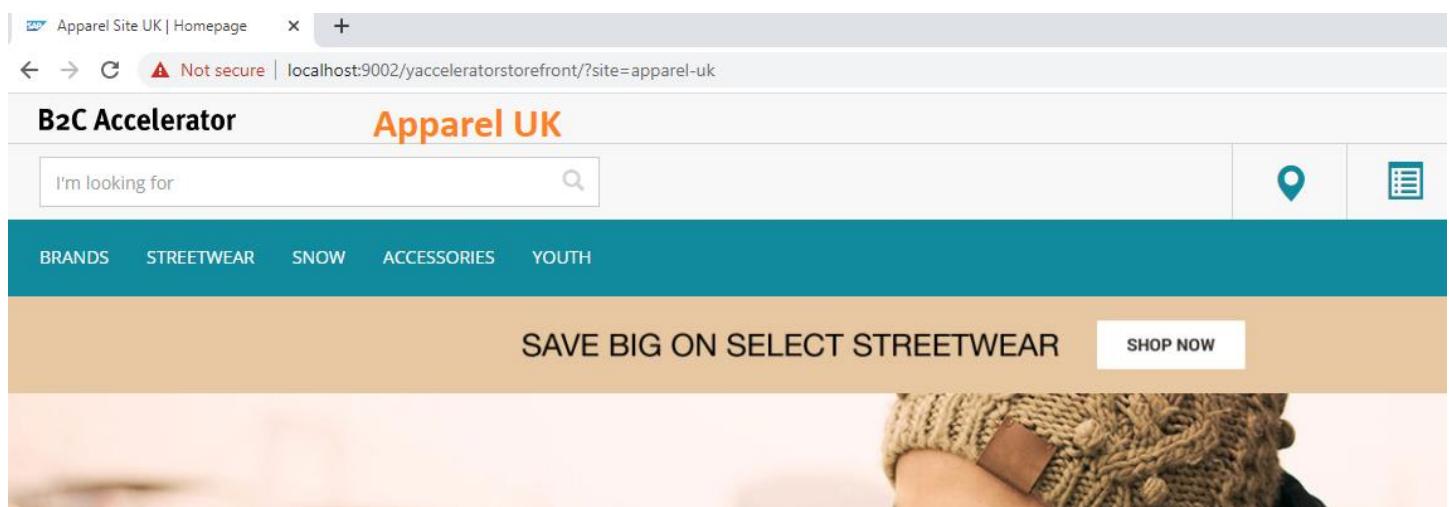
Name

- b2b\_china
- b2c\_china
- cx**
- cx\_old\_occ
- cx\_old\_occ\_v1
- marketplace\_acc\_china

We have installed this Recipe.  
Bcoz -- cx recipe ... We get: -  
**3 Sample B2C Sites**  
Apparel UK  
Apparel DE  
Electronics  
**1 Sample B2B Site**  
Powertools



<https://localhost:9002/yacceleratorstorefront/?site=apparel-uk>



Apparel Site UK | Homepage

Not secure | localhost:9002/yacceleratorstorefront/?site=apparel-uk

B2C Accelerator Apparel UK

I'm looking for

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

SAVE BIG ON SELECT STREETWEAR [SHOP NOW](#)

<https://localhost:9002/yacceleratorstorefront/?site=apparel-de&clear=true>



Bekleidungs-Website DE | Startseite

Not secure | localhost:9002/yacceleratorstorefront/?site=apparel-de&clear=true

B2C Accelerator Apparel DE

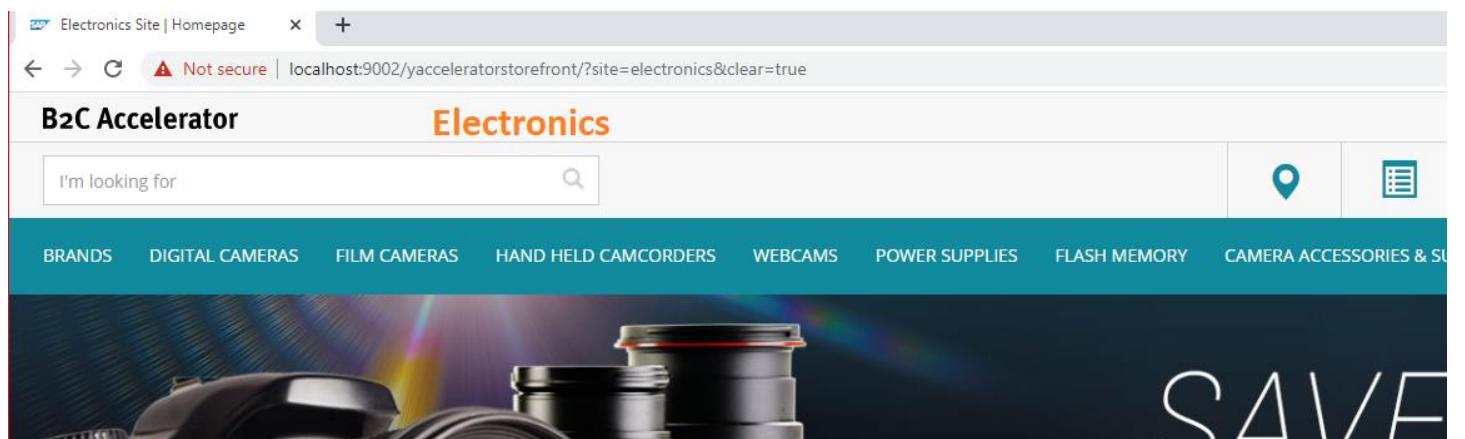
Ich suche

MARKEN STREETWEAR SNOW ACCESSORIES JUGEND

TOLLE SPARANGEBOTE FÜR AUSGEWÄHLTE STREETWEAR [JETZT EINKAUFEN](#)

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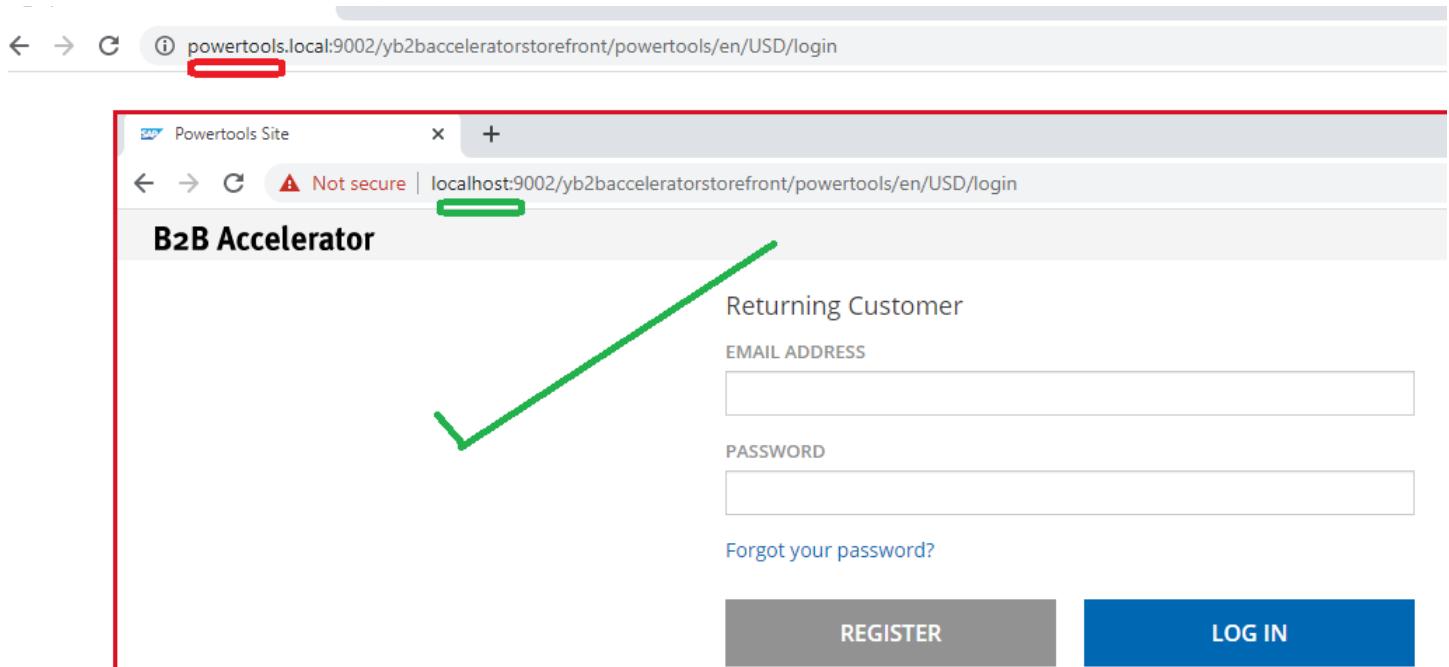
<https://localhost:9002/yacceleratorstorefront/?site=electronics&clear=true>



B2B =

<https://localhost:9002/yb2bacceleratorstorefront/?site=powertools>

<https://localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/login>

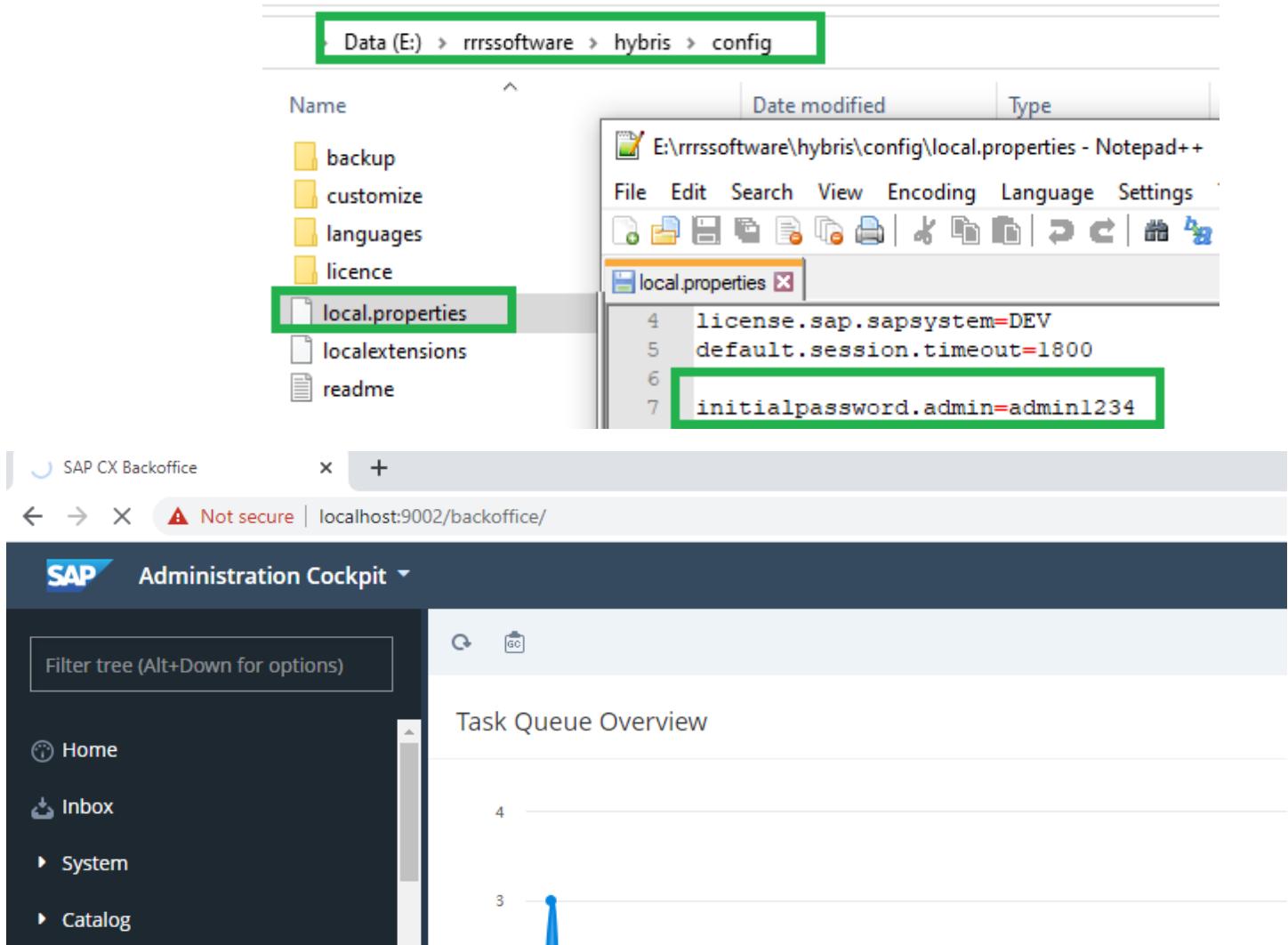


**Backoffice =**

URL = <https://localhost:9002/backoffice/>

User = admin

Password = admin1234



**Note =**

In – Java === We have “SQL Developer Studio / Oracle Developer Studio / Toad / ...”.

**Q =** What is the purpose of these tools?

By using these tools –

---

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---

- 1) We can connect to DB
- 2) We can see the tables
- 3) We can see the table - records
- 4) We can perform DB operations [Insert / Delete / ...].
- 5) ===

Similar – In “SAP Comm” – **Backoffice**.

**Q** = What is the purpose of Backoffice?

- 1) It's UI tool
- 2) It connects to DB [HSQL DB / HANA DB / My SQL / ...]
- 3) We can see the tables
- 4) We can see the table – records
- 5) We can perform DB operations [Insert / Delete / ...]
- 6) ===

## HAC [Hybris Administrative Console]

URL = <https://localhost:9002/login>

admin

admin1234

hybris administration console | Localhost:9002 | https://localhost:9002/login

(v) hybris administration console

Username

Password

Remember Login

LOGIN

hybris administration console | Localhost:9002 | https://localhost:9002

(v) hybris administration console

You're Administrator [logout](#)

Platform Monitoring Maintenance Console

Tenants Configuration System Logging Extensions Initialization Update SQL Scripts

Optimize. 2 hours to minutes. Enjoy!

Memory overview Threads overview

## SmartEdit =

URL = <https://localhost:9002/smarteredit/>

admin

admin1234

The image shows two browser tabs side-by-side. The left tab is titled 'SAP CX Backoffice' and has the URL 'https://localhost:9002/smarteredit/'. It contains a login form with fields for 'admin' (username), '\*\*\*\*\*' (password), 'English' (language), and a 'Sign In' button. The right tab is also titled 'SAP CX Backoffice' and has the URL 'https://localhost:9002/smarteredit/#/'. It displays the 'SmartEdit' interface, specifically the 'APPAREL UK CONTENT CATALOG'. The catalog page features a woman wearing a winter hat and scarf, with the text 'START YOUR SEASON' and 'SHOP WINTER NOW'. Below the catalog, there are sections for 'ONLINE' and 'STAGED', each with links to 'HOMEPAGE | PAGES | NAVIGATION MANAGEMENT'.

## Product Cockpit

In old versions [5.X / 6.X – We have up to 6.7] – Product cockpit is the separate URL.

In latest version [1905 / 2005 / 2011] – Product cockpit is embedded with BackOffice.

The image shows the SAP CX Backoffice interface. The top navigation bar includes the SAP logo and the text 'SAP CX Backoffice' and 'SmartEdit'. The URL 'Not secure | localhost:9002/backoffice/' is visible in the address bar. The main menu on the left has several items: 'Administration Cockpit', 'Adaptive Search', 'Product Cockpit' (which is highlighted with a green box), and 'Integration UI Tool'. On the right, there are sections for 'Core attributes' (with a dropdown arrow and a blue notification icon showing '0') and 'Product Approval' (with a pie chart icon).

## Adaptive Search

The screenshot shows the SAP CX Backoffice interface. At the top, there are two tabs: "SAP CX Backoffice" and "SmartEdit". The address bar indicates "localhost:9002/backoffice/". Below the header, the title "Adaptive Search" is displayed with a dropdown arrow. On the left, a navigation sidebar lists "Administration Cockpit", "Adaptive Search" (which is highlighted with a green oval), "Product Cockpit", and "Integration UI Tool". To the right, a search profile context panel contains the heading "Search profile context:" and a sub-section "Search in category: Global" with an empty input field.

**ASM** = Can see customer 360-degree view information.

<https://localhost:9002/yacceleratorstorefront/?site=apparel-uk&asm=true>

The screenshot shows the Apparel Site UK homepage. The URL in the address bar is "localhost:9002/yacceleratorstorefront/?site=apparel-uk&asm=true". The page features a dark header with "ASM" and a "SIGN IN" button. Below the header is a search bar with "I'm looking for" and a magnifying glass icon. The main menu includes "B2C Accelerator", "BRANDS", "STREETWEAR", "SNOW", "ACCESSORIES", "YOUTH", and a promotional banner "SAVE BIG ON SELECT STREETWEAR" with a "SHOP NOW" button. The top right corner shows a shopping cart icon with "(0 ITEMS) £0.00".

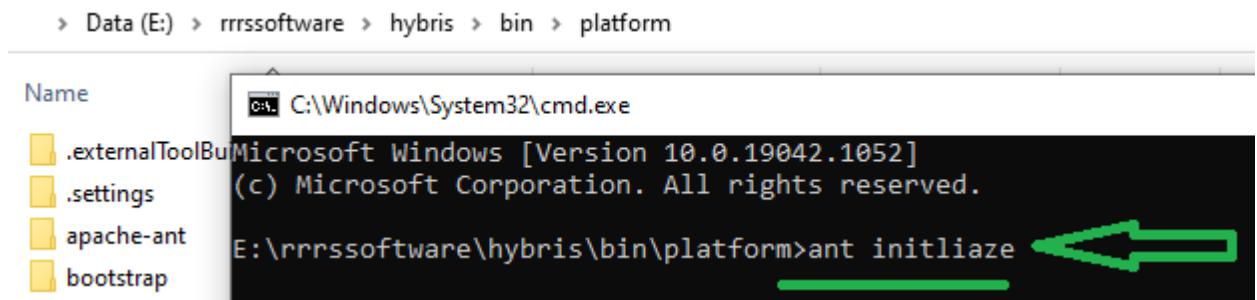
## CS Cockpit

=====

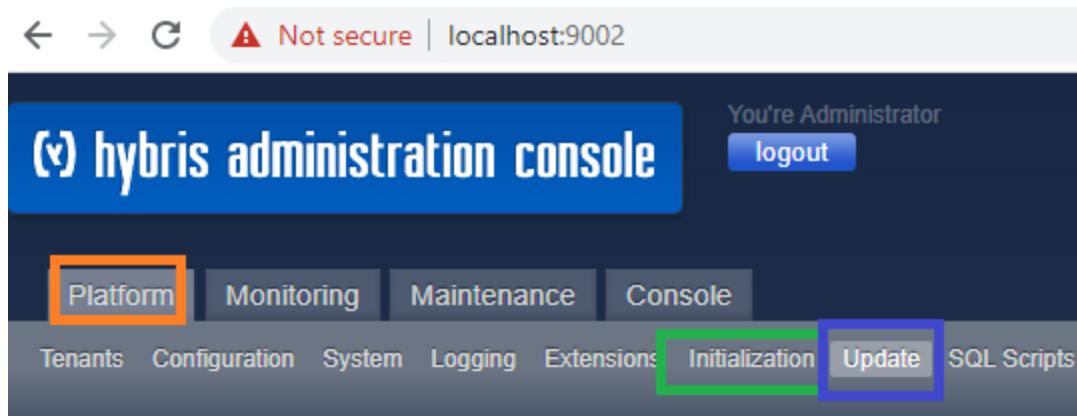
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**Scenario = We can do “Initialization / Update” in 2 ways: -**

**1) From Command windows [No need Server Start up]**



**2) From hAC [Server Start up is required]**

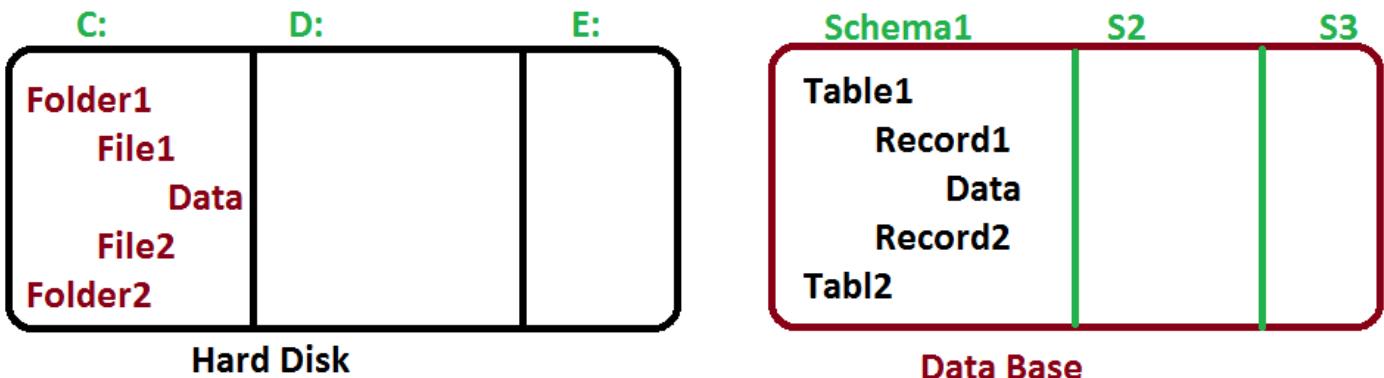


The screenshot illustrates the process of initializing and updating the system. On the left, a code editor displays 'core-items.xml' with XML code defining a 'Product' item type. A green arrow labeled 'INIT' points from the code to the SAP Administration Cockpit interface on the right. The cockpit shows a sidebar with 'Catalog' expanded, and under 'Products', a table lists items with columns 'Article Number' and 'Identifier'. The table data is as follows:

Article Number	Identifier
300441142	Cap Blue Tomato BT S
29531	Snowboard Ski Tool T
29532	Snowboard Ski Tool T
29533	Snowboard Ski Tool T

During the “INIT / Update” database tables will be created based on “\*-items.xml” code.

**Q =** What exactly happened during the INIT?



- 1) Removes all the existing data
  - a. Standard data / Sample data
  - b. Project Specific data
- 2) Removes all the tables
- 3) Removes the Schema
- 4) Recreates the Schema
- 5) Recreates the tables
- 6) Recreates the Data --- Only Standard data / Sample data

**Note** = It will not recreate project specific data.

Before doing the INIT make sure you take “Project Specific data” backup.

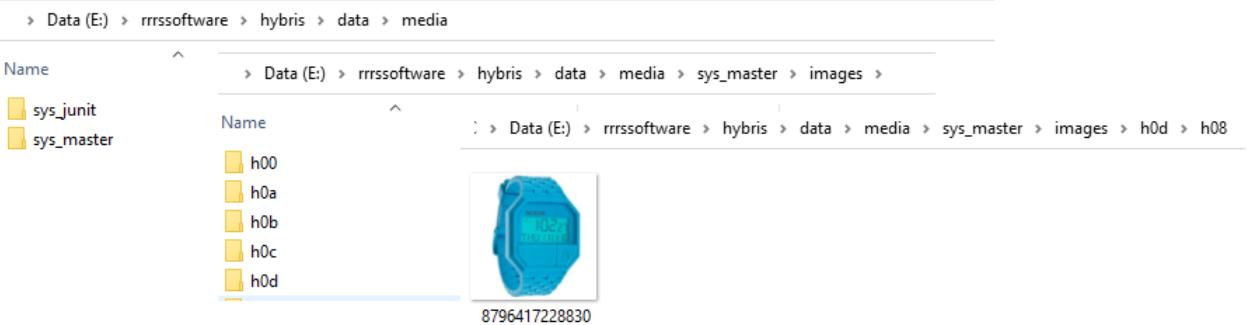
- 7) Suspends all running cronjobs

CronJob = Timer (or) Scheduled program.

- 8) All the Cache will be cleared

- 9) Creates the Media folder =

E:\rrrssoftware\hybris\data\media



## 10) Creates the tables based on \*-items.xml file

Q: During INIT, these tables (Addresses, Cart... Order....) are created. Where is Source for this tables? (or) What is the input for this tables?

In Hybris -- We have \*-items.xml files = This files have the DB Design.

```

<itemtype code="Address"
          extends="GenericItem"
          jaloClass="de.hybris.platform.jalo.user.Address"
          autoCreate="true"
          generate="true">
    <deployment table="Addresses" typeCode="23" propertyTable="AddressProps"/>
    <attributes>
        <attribute autoCreate="true" qualifier="original" type="Address">
            <modifiers read="true" write="false" initial="true" search="true" />
            <persistence type="property"/>
        </attribute>
    </attributes>

```

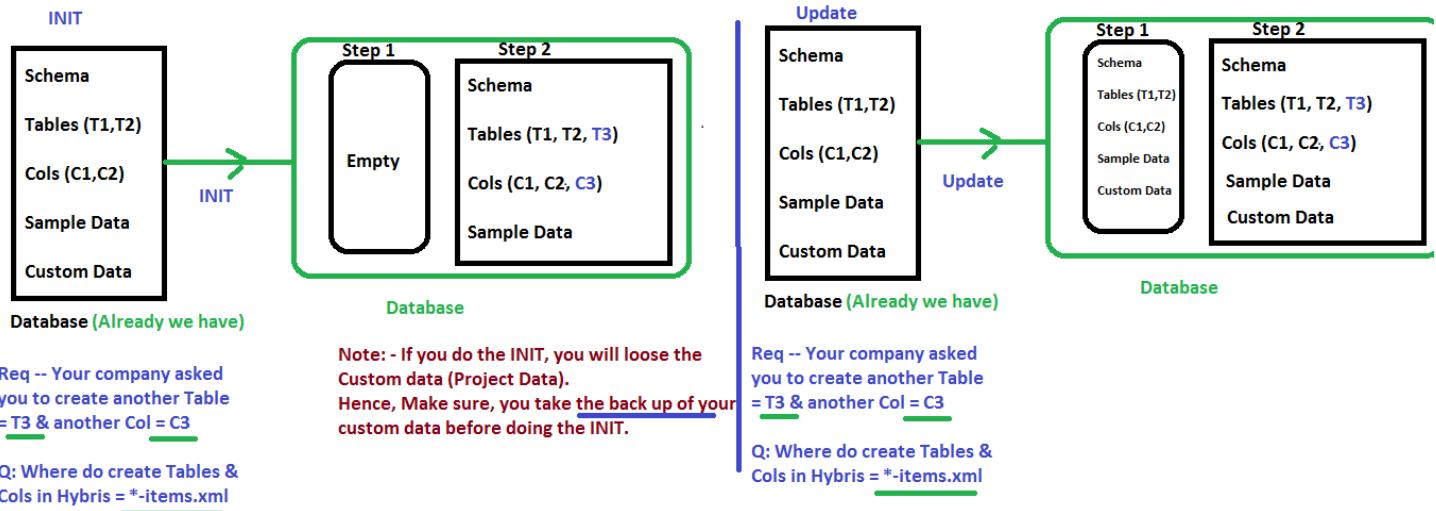
## 11) Set the Licence

“SAP Comm” Developer LIC = 30 Days.

You can also get unlimited LIC.

E:\rrrssoftware\hybris\config\licence

Data (E:) > rrrssoftware > hybris > config > licence	
Name	Date modified
hybrislicence	02-11-2020 16:12
installedSaplicences.properties	09-05-2021 20:42



**Q = When do I go for INIT & When do I go for Update?**

1st time go with **INIT**.

If you feel that your DB is corrupted, then go with **INIT**.

==> Remaining situations (U Modified Col / Table / ...) go with **Update**.

**Q = What exactly happened during the INIT? = DB Created.**

OS (C:) > rrrssoftware > HYBRISCOMM64 > hybris > data > hsqlDb >			
Print Burn New folder			
Name	Date modified	Type	
mydb.tmp	6/21/2019 11:58 PM	File folder	
mydb.lck	6/22/2019 12:00 AM	LCK File	1 KB
mydb	6/22/2019 12:26 AM	Text Document	10 KB
mydb.properties	6/21/2019 11:58 PM	PROPERTIES FILE	1 KB
mydb.script	6/21/2019 11:58 PM	SCRIPT File	2 KB

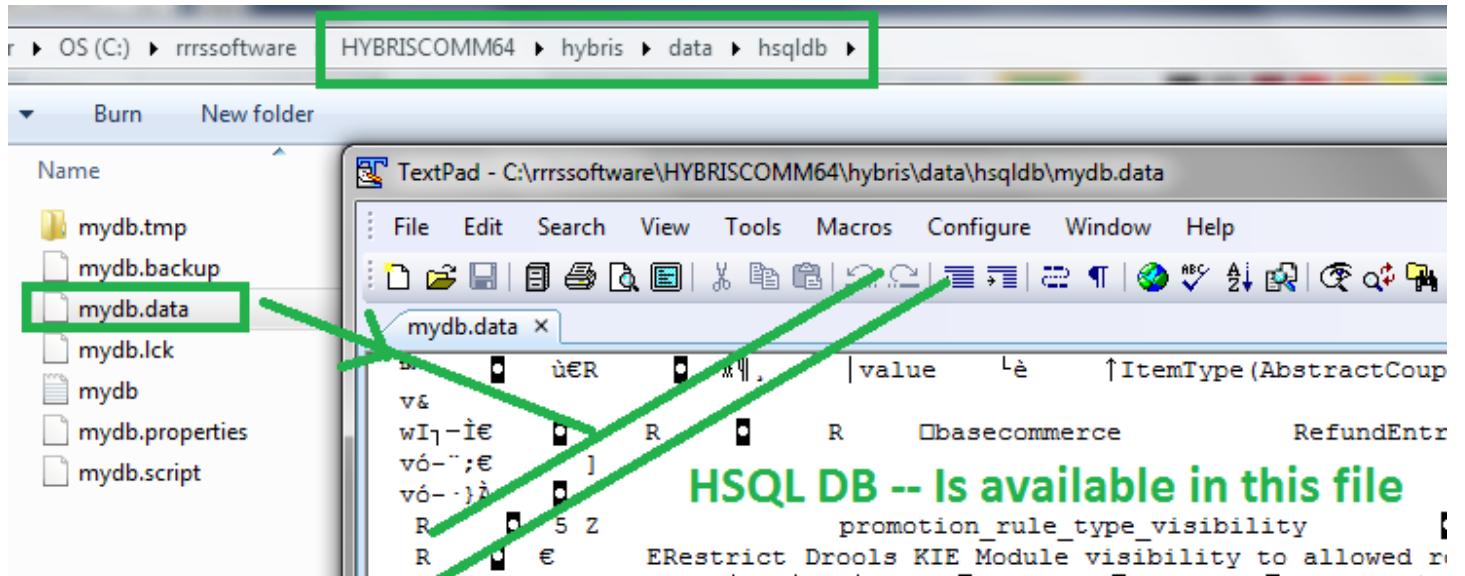
**Before INIT / Update**

OS (C:) > rrrssoftware > HYBRISCOMM64 > hybris > data > hsqlDb >			
library Share with Burn New folder			
Name	Date modified	Type	
mydb.tmp	6/21/2019 11:58 PM	File folder	
mydb.backup	6/22/2019 9:36 PM	BACKUP File	8,519 KB
mydb.data	6/22/2019 9:13 PM	DATA File	180,224 KB
mydb.lck	6/22/2019 1:47 AM	LCK File	1 KB
mydb	6/22/2019 9:37 PM	Text Document	2,342 KB
mydb.properties	6/22/2019 9:14 PM	PROPERTIES File	1 KB
mydb.script	6/22/2019 9:14 PM	SCRIPT File	287 KB

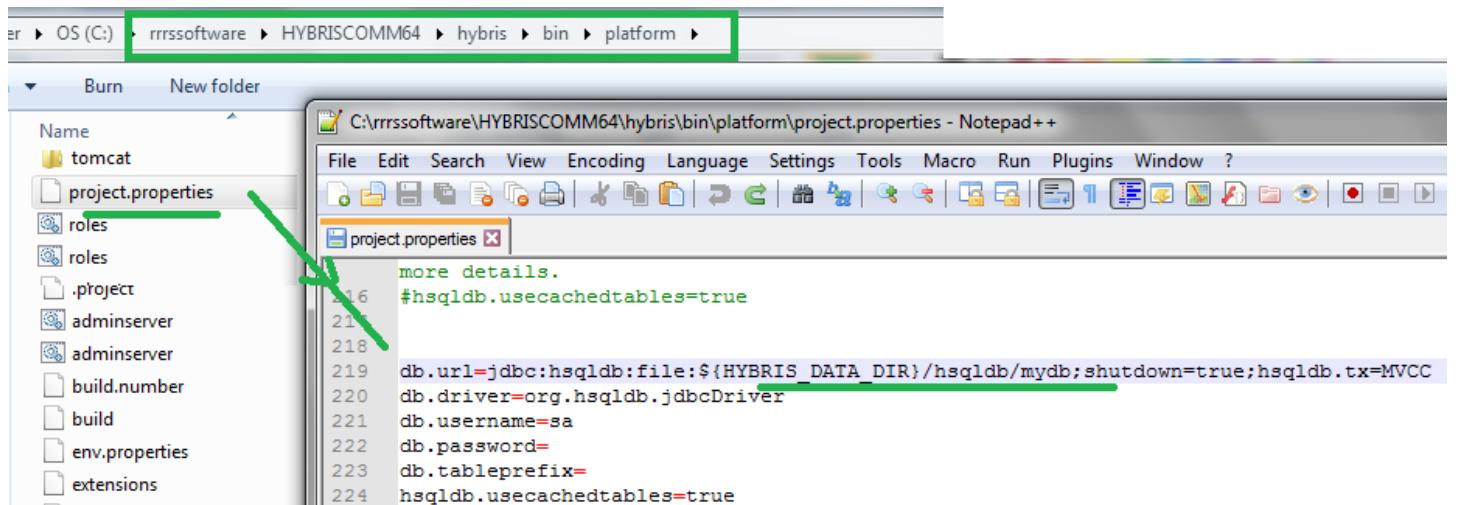
**After INIT / Update**

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**Q = Where “SAP Comm” provided HSQL DB is available? = mydb.data**



**Q = Why DB is created @ below location? Can we change this?  
“E:\rrrssoftware\hybris\data\hsqldb\mydb.data”**



**Note = mydb.data is in encrypted format. Use some tools for decrypt.**

For any eCom – U will have some common tables = Cart ... Order ... Address ... User ... Promotions ... = These tables are already created for us during the INIT.

**Q =** Which of the following correct during INIT?

- 1) Creates the Media folder
- 2) Delete all the data & re-create standard data
- 3) **Delete the Database**
- 4) Clear the cache
- 5) All above

**Q =** Explain “SAP Comm” License?

“SAP Comm” developer license validity = 30 days.

In real time – there is possible that company can give unlimited LIC key.

**Q =** What happens if you don’t have unlimited LIC key?

**Sol1 =** Do the INIT.

That means – We get 30 days LIC validity whenever we do the initialization.

Every 30 days once do the initialization.

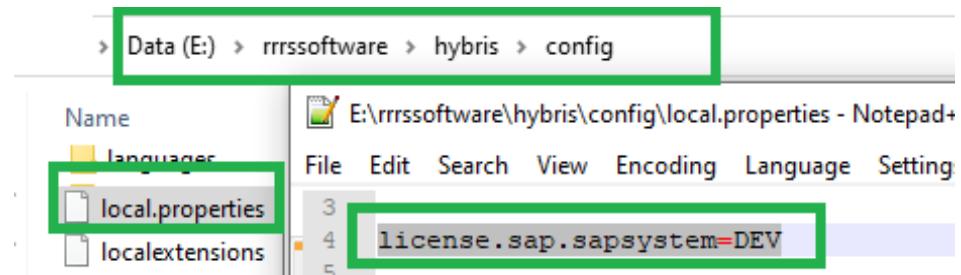
**Challenge =** If any custom data is there then we will lose it.

Backup of custom data is required before doing the initialization.

**Sol2 =** You can setup 90 days validity license

**Step 1 =**

E:\rrrssoftware\hybris\config\local.properties



## Step 2 =

The screenshot shows a command prompt window with the path C:\ > Data (E:) > rrrssoftware > hybris > bin > platform. The command executed is license.bat -temp CPS\_SQL. A green arrow points from this command to a table below, which lists database configurations:

Database	Value
HSQldb (default)	CPS_SQL
SAP Hana	CPS_HDB
Microsoft SQL Server	CPS_MSS
Oracle	CPS_ORA
MySQL	CPS_MYS

**Step 3 =** Do build (ant clean all) ... Start Server (Hybrisserver.bat) ... Check License validity from hAC.

The screenshot shows the Hybris Administration Console (hAC) interface. The Platform tab is selected. In the License section, it displays a demo license with the message "This licence is only for demo or develop usage and is valid for 90 days." and a progress bar indicating 90 remaining days.

hybris administration console | [Logout](#)

Not secure | <https://localhost:9002>

**You have access**

**I have access**

**Chenna have access**

Platform Monitoring Maintenance Console

Tenants Configuration System Logging Extensions **Initialization** **Update** SQL Scripts License Support PK Analyz

**Optime. 14 minutes Enjoy!**

I Started INIT @ 10 AM.  
Takes ~(1 - 3) Hrs

Can you start INIT again @ 10.3 AM? = No

SAP Comm uses SYSTEMINIT table to control this.  
If globalID = 0 then allows INIT.  
If globalID = 1 then will not allow INIT.

**SYSTEMINIT**

- Columns
- Keys
- Constraints
- Triggers
- Indexes

```
select * from SYSTEMINIT;
```

100 %

	id	locked	tenantId	clusterNode	lockdate	process	instanceId
1	globalID	0	master	0	2017-07-05 10:03:38.430	System update	NULL

**Before INIT / Update**

id	locked	tenantId	clusterNode	lockdate	process	instanceId
globalID	1	master	0	20...	System update	...

**During Update / INIT**

hybris administration console

You're Administrator [Logout](#)

Platform Monitoring Maintenance Console

Tenants Configuration System Logging Extensions **Initialization** [Update](#) SQL Scripts License Support PK Analyzer Classpath Analyzer

**Lock**

**Initialize**

**Dump configuration**

Database pool  
hybris

Database URL  
HSQL Database Engine

Database table prefix  
false

**It's costly activity**

== Generally we do INIT 1st time.  
After that mostly it's not required.

Is it best practice to disable this? [So that - People can't do any mistake].

In Production System It is good Idea to lock the INIT from HAC.

**config\local.properties**

system.unlocking.disabled=true

## Scenario = How to hide (or) show the “hAC – Menu” options?

You're Administrator [logout](#)

Assume that -- This is Production - hAC

Platform Monitoring Maintenance Console

Tenants Configuration System Logging Extensions Initialization Update SQL Scripts License PK Analyzer

FlexibleSearch ImpEx Import ImpEx Export

Console

Chenna RRRS  
Want these options

Gokul -- Want to see the log details

Misra -- Want to see the Tables Data

Memory overview Threads overview CPU Load (4 processors)

## Ans = SAP Commerce - Security-Roles – Configuration

U take any eComm Site – Q = How many types of Users will be there?

### Ans = 2 Types of **Users**

1) **Customers** = People who uses the eComm Site

a. **Anonymous Customer** = People who do not enter any of their information.

b. **Guest Customers** = People who provides their unique ID.

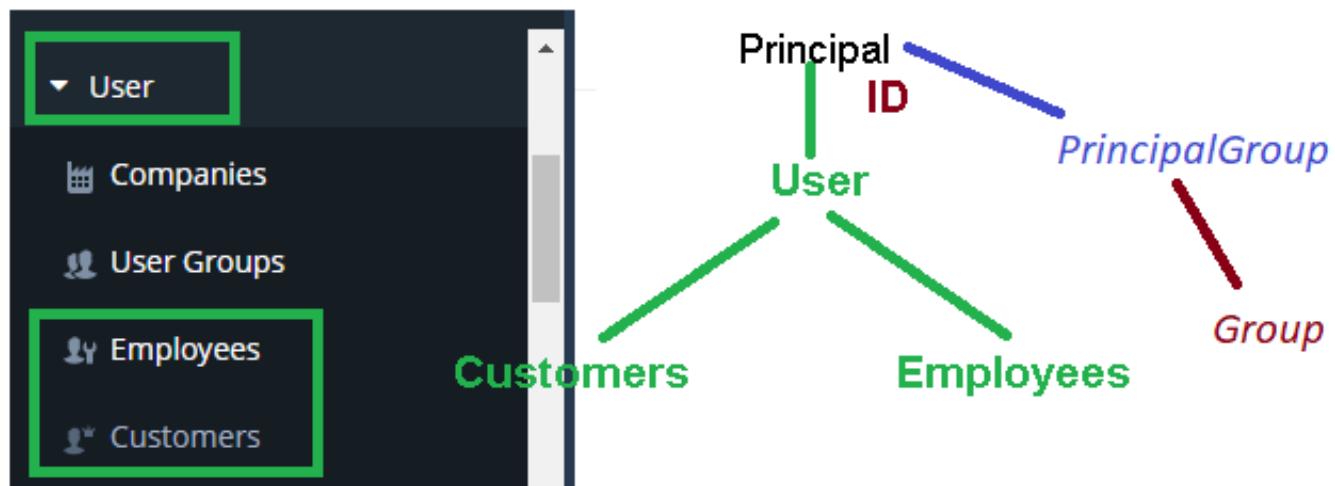
Q = Can we book the ticket in **bookmyshow.com** without login?  
= Yes, by providing unique id [email or mobile no].

c. **Login Customers** = For login customer in the system “profile / account” will be created.

Q = Can we book the ticket in **irctc.co.in** without login? = No

2) **Employees** = People who manages the eComm Site

- a. Product Managers
- b. Content Managers
- c. Admin
- d. CS Agent
- e. =====



**Step 1** = Create the User [Employee] = **chennarrs**

The screenshot shows the SAP Administration Cockpit interface for creating a new employee:

- Navigation Tree:** Under **User**, **Employees** is selected.
- Create New Employee:** A dialog box is open with the following fields:
  - ID:** chennarrs
  - Name:** Chenna RRRS
  - Description:** (empty)
- Buttons:** A green arrow points to the **DONE** button at the bottom right of the dialog.

## Step 2 = Let's assign "admin" group:

The screenshot shows the SAP Administration Cockpit interface. On the left, a sidebar menu under 'User' is expanded, showing 'Companies', 'User Groups', 'Employees', 'Customers', 'Addresses', 'Titles', and 'Agreements'. The 'Employees' item is highlighted with a green underline. In the main area, a search bar at the top has 'chenna' typed into it, and a yellow 'SEARCH' button is visible. Below the search bar is a table with columns 'ID' and 'Name'. A single row is selected, showing 'chennarrrs' and 'Chenna RRRS'. This row is also underlined in green. Below the table, a section titled 'Chenna RRRS [chennarrrs]' is displayed. At the bottom of this section, there is a table with several tabs: GENERAL, ADDRESSES, PASSWORD, ORDERS, EMPLOYEE PRICES, PERSONALIZATION, and ADMINISTRATION. The 'GENERAL' tab is selected. Under the 'Groups' column, the value '[admingroup]' is highlighted with a green box. To its right, '[employeegroup]' is listed. The 'Description' column is empty.

Now - Create the password =

The screenshot shows the SAP CX Backoffice password creation screen for the user 'Chenna RRRS'. The title bar says 'Chenna RRRS [chennarrrs]'. The top navigation bar includes 'REFRESH' and 'SAVE' buttons. Below the title, there are tabs: GENERAL, ADDRESSES, **PASSWORD**, ORDERS, EMPLOYEE PRICES, PERSONALIZATION, and ADMINISTRATION. The 'PASSWORD' tab is selected and highlighted with a green box. Under 'Password Type', a dropdown menu shows 'Standard'. Next to it is a 'Change Password' field containing '.....'. Below this is another '.....' field with a blue border and a vertical green line highlighting it. To the right, there is a 'Disable Login' section with two radio buttons: 'True' (unchecked) and 'False' (checked). The 'False' button is highlighted with a green box. At the bottom, there are fields for 'Password Question' and 'Last Login'.

Results =

The screenshot shows the hybris administration console. On the left, a login screen has 'chennarrrs' in the username field and '.....' in the password field. On the right, the dashboard displays the message 'Chenna RRRS able to see everything Bcoz "admin" group is assigned.' and 'Optime. 4 hours 40 minutes. Enjoy!'. The top navigation bar includes 'Platform', 'Monitoring', 'Maintenance', and 'Console'. The bottom navigation bar includes 'Tenants', 'Configuration', 'System', 'Logging', 'Extensions', 'Initialization', 'Update', 'SQL Scripts', 'License', 'Support', and 'PK Analyzer'. The status bar at the bottom right says 'You're Chenna RRRS' and 'logout'.

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## Step 3 = Let's assign only "Platform – Initialization & Update".

The screenshot shows the SAP CX Backoffice interface. On the left, a sidebar lists 'User' under 'Companies', 'User Groups', and 'Employees' (which is highlighted with a green box). Below that are 'Customers', 'Addresses', 'Titles', and 'Agreements'. Under 'SAVED QUERIES', it says 'No queries'. The main area shows a list of users with 'chennarrs' selected. A details view for 'Chenna RRRS [chennarrs]' is shown, with tabs for GENERAL, ADDRESSES, PASSWORD, ORDERS, EMPLOYEE PRICES, PERSONALIZATION, and ADMINISTRATION. In the PERSONALIZATION tab, there is a 'Groups' section where '[hac\_platform\_update]' and '[hac\_platform\_initialization]' are listed. A green box highlights this section.

## Results =

The first screenshot shows the 'hybris administration console' login page with 'chennarrs' entered in the username field, indicated by a yellow arrow. The second screenshot shows the logged-in dashboard with 'You're Chenna RRRS' and a 'logout' button. The 'Platform' menu is selected, and the 'Initialization' and 'Update' sub-sections are highlighted with a green box.

Q = How do we know the “Groups” Info? = **spring-security-config.xml**

The screenshot shows a code editor with the file 'spring-security-config.xml' open. The code defines various security rules using the Spring Security XML configuration. A vertical green bar highlights the entire content of the file. The code includes numerous 'intercept-url' elements with specific patterns and access levels like 'PERMIT\_ALL', 'ROLE\_ADMININGROUP', and 'ROLE\_HAC\_PLATFORM\_INITIALIZATION'.

```

<http access-decision-manager-ref="accessDecisionManager" use-expressions="false">
    <session-management session-authentication-strategy-ref="fixation"/>
    <intercept-url pattern="/login" access="PERMIT_ALL" requires-channel="https"/>
    <intercept-url pattern="/tenants/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_TENANTS" requires-channel="https"/>
    <intercept-url pattern="/platform/config/?*edited/*" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CONFIGURATION" requires-channel="https"/>
    <intercept-url pattern="/platform/config/valuechanged/*" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CONFIGURATION" requires-channel="https"/>
    <intercept-url pattern="/platform/config/?*/*" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CONFIGURATION" requires-channel="https"/>
    <intercept-url pattern="/platform/config/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CONFIGURATION, ROLE_HAC_PLATFORM_CONFIGURATION_SYSTEM" requires-channel="https"/>
    <intercept-url pattern="/platform/system/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_SYSTEM" requires-channel="https"/>
    <intercept-url pattern="/platform/log4j/changeLevel/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_LOGGING" requires-channel="https"/>
    <intercept-url pattern="/platform/log4j/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_LOGGING, ROLE_HAC_PLATFORM_LOGGING_LIMITED" requires-channel="https"/>
    <intercept-url pattern="/platform/extensions/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_EXTENSIONS" requires-channel="https"/>
    <intercept-url pattern="/platform/init/data/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_INITIALIZATION, ROLE_HAC_PLATFORM_UPDATE, HYBRIS_NOT_INITIALIZED" requires-channel="https"/>
    <intercept-url pattern="/platform/init/pendingPatches/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_INITIALIZATION, ROLE_HAC_PLATFORM_UPDATE" requires-channel="https"/>
    <intercept-url pattern="/platform/init/execute/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_INITIALIZATION, ROLE_HAC_PLATFORM_UPDATE" requires-channel="https"/>
    <intercept-url pattern="/platform/init/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_INITIALIZATION, HYBRIS_NOT_INITIALIZED" requires-channel="https"/>
    <intercept-url pattern="/platform/update/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_UPDATE" requires-channel="https"/>
    <intercept-url pattern="/platform/dryrun/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_SQLSCRIPTS, ROLE_HAC_PLATFORM_INITIALIZATION, HYBRIS_NOT_INITIALIZED" requires-channel="https"/>
    <intercept-url pattern="/platform/jars/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CLASSPATHANALYZER" requires-channel="https"/>
    <intercept-url pattern="/platform/jars_hawtow/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_CLASSPATHANALYZER" requires-channel="https"/>
    <intercept-url pattern="/platform/license/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_LICENSE" requires-channel="https"/>
    <intercept-url pattern="/platform/support/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_SUPPORT" requires-channel="https"/>
    <intercept-url pattern="/platform/pkalyzer/**" access="ROLE_ADMININGROUP, ROLE_HAC_PLATFORM_PKANALYZER" requires-channel="https"/>

```

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**Note** = We have completed “SAP Comm” installation yesterday.

**Q** = Do we need to do those steps every day? = No need.

Then what?

Going forward – do below: -

1) If any **Java code** changes =

Do the build [ant clean all] – Start the Server – Results

2) If any **DB code** [**\*-items.xml**] changes =

Do the build [ant clean all] – Start the Server – “hAC – Update” – Results

3) If any **\*.properties** changes =

Start the Server – Results

4) =====

**Q** = Which of the following the correct?

1) Java Changes – Requires = Server Restart only

2) Local.properties Changes – Requires = Server Restart

3) Local.properties Changes – Must Requires = Build (ant all / ant clean all) + Server Restart

4) Java Changes – Requires = Build + Server Restart

5) Localextensions.xml [Adding Exts / Delete Exts] Changes – Requires = Build + Server Restart only

6) Localextensions.xml [Adding Exts / Delete Exts] Changes – Requires = Build + Server Restart + “hAC – Update”

7) JSP Changes – Must Requires = Build & Server Restart

- 8) JSP Changes – Requires = Just Browser refresh
- 9) Java Script Changes – Requires = Just Brower refresh
- 10) Java Script Changes – Must Requires = Server Restart + Just Brower refresh
- 11) \*-spring.xml Changes – Must Requires = Build + Server Restart
- 12) \*-spring.xml Changes – Requires = Just Server Restart  
  
Note = Associated bean Java class already completed.
- 13) \*-items.xml [Database] Changes – Requires = Build + Server Restart
- 14) \*-items.xml [Database] Changes – Requires = Build + Server Restart + “hAC - Update / INIT”
- 15) CSS Changes – Requires = Just Brower refresh
- 16) \*facades-beans.xml [Used to create \*Data Obj / \*Data Class] Changes – Requires = Build + Server Restart
- 17) JUnit changes – Requires = Build – Server Restart – “hAC – Update”
- 18) JUnit changes – Requires = Build – Server Restart
- 19) ImpEx changes – Requires = “hAC – ImpEx Import” [Manually]
- 20) ImpEx changes – Requires = “hAC – Update / INIT” [Automatic]
- 21) Cronjob changes – Requires = Build – Server Restart
- 22) =====..... All above

## Scenario = Eclipse

“SAP Comm” provides lots of code.

In C Lang – We use “**Turbo C**” editor for writing the code.

In Java – We use “Eclipse / Notepad ++ / IntelliJ / ...” for writing the code.

In “**SAP Comm**” – We can use any editor to write the code [**Eclipse**].

We can use any Editor [Eclipse / IntelliJ / Notepad / ...] for coding.

Download Eclipse & Install it.

URL = <https://www.eclipse.org/downloads>

**Note** = You can download any version.

The screenshot shows the Eclipse.org downloads page. At the top, there is a banner stating: "The Eclipse Installer 2021-03 R now includes a JRE for macOS, Windows and Linux." Below this, there is a large button with the Eclipse logo and the text "Get Eclipse IDE 2021-03". To the right of this button, there is information about "Eclipse Che" and "ORION". The "Eclipse Che" section includes a logo, a brief description, and a link. The "ORION" section includes a logo and a brief description. At the bottom of the screenshot, there is a large orange button labeled "Download x86\_64".

The screenshot shows the Eclipse Installer search results. A green arrow points to the "Eclipse IDE for Java EE Developers" entry. This entry has a small icon with "Java EE IDE" text. Below the entry, there is a brief description: "Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn, EGit and others."

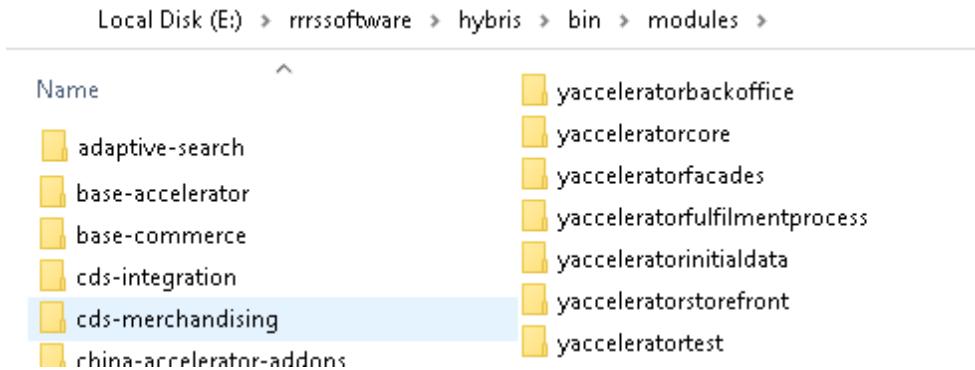
## Results = After install Eclipse



## Scenario = How to import “SAP Comm” code into Eclipse?

In “Java / .NET” – Project === “SAP Comm” – Exts.

SAP Comm – provides lots of Exts.

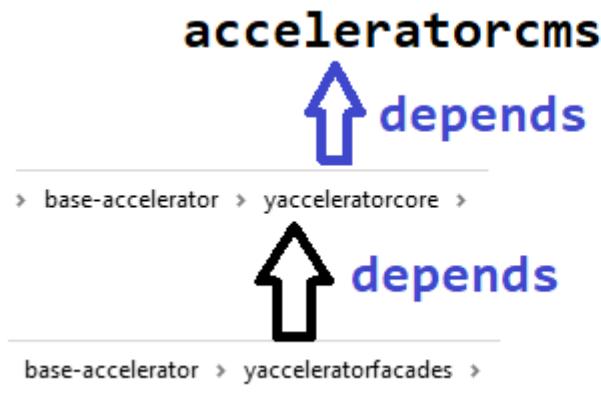


The screenshot shows a web browser displaying a storefront page for 'Apparel Site UK'. The page features a teal header with navigation links for BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. A search bar is present above the menu. Below the menu, a banner says 'SAVE BIG ON S...'. A red arrow points from the text '1 Ext can depends on 1 (or) more other Exts' in the bottom left corner of the page towards the 'localextensions.xml' file shown on the right. The file content is a XML snippet listing various extension names:

```
13 <extension name='adaptivesearch' />
14 <extension name='adaptivesearchbackoffice' />
15 <extension name='adaptivesearchfacades' />
16 <extension name='adaptivesearchsamplesaddon' />
17 <extension name='adaptivesearchsolr' />
18 <extension name='adaptivesearchwebservices' />
19 <extension name='apiregistrybackoffice' />
20 <extension name='apiregisterservices' />
21 <extension name='assistedservicecustomerinterestsaddon' />
22 <extension name='assistedservicecustomerinterestsfacades' />
23 <extension name='assistedservicefacades' />
24 <extension name='assistedservicepromotionaddon' />
25 <extension name='assistedservicepromotionfacades' />
26 <extension name='assistedserviceservices' />
27 <extension name='assistedservicestorefront' />
```

1 Exts can depends on 1 (or) more other Exts.

**Example** == yacceleratorfacades is the Ext & It depending on acceleratorfacades & yacceleratorcore



**Note = It is very difficult for us to identify all dependent Exts & load into Eclipse**

**Q = Where can we see the Exts dependencies?**

**Ans = extensioninfo.xml**

**Example =**

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!--
Copyright (c) 2019 SAP SE or an SAP affiliate company. All rights reserved.
--><extensioninfo xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<extension abstractclassprefix="Generated" classprefix="YAccelerator">
    <!-- you should add all required extensions to this list, except
        extensions which are automatically required -->
    <requires-extension name="acceleratorfacades"/>
    <requires-extension name="yacceleratorcore"/>
    <coremodule generated="true" manager="de.hybris.platform.jalo.extension.YAcceleratorCoreModule"/>
    <meta key="modulegen-name" value="accelerator"/>
</extension>
</extensioninfo>
```

In C Lange – We have **#include**

In Java Lang – We have **import**

==== In “SAP Comm” – We have **<requires-extension>**

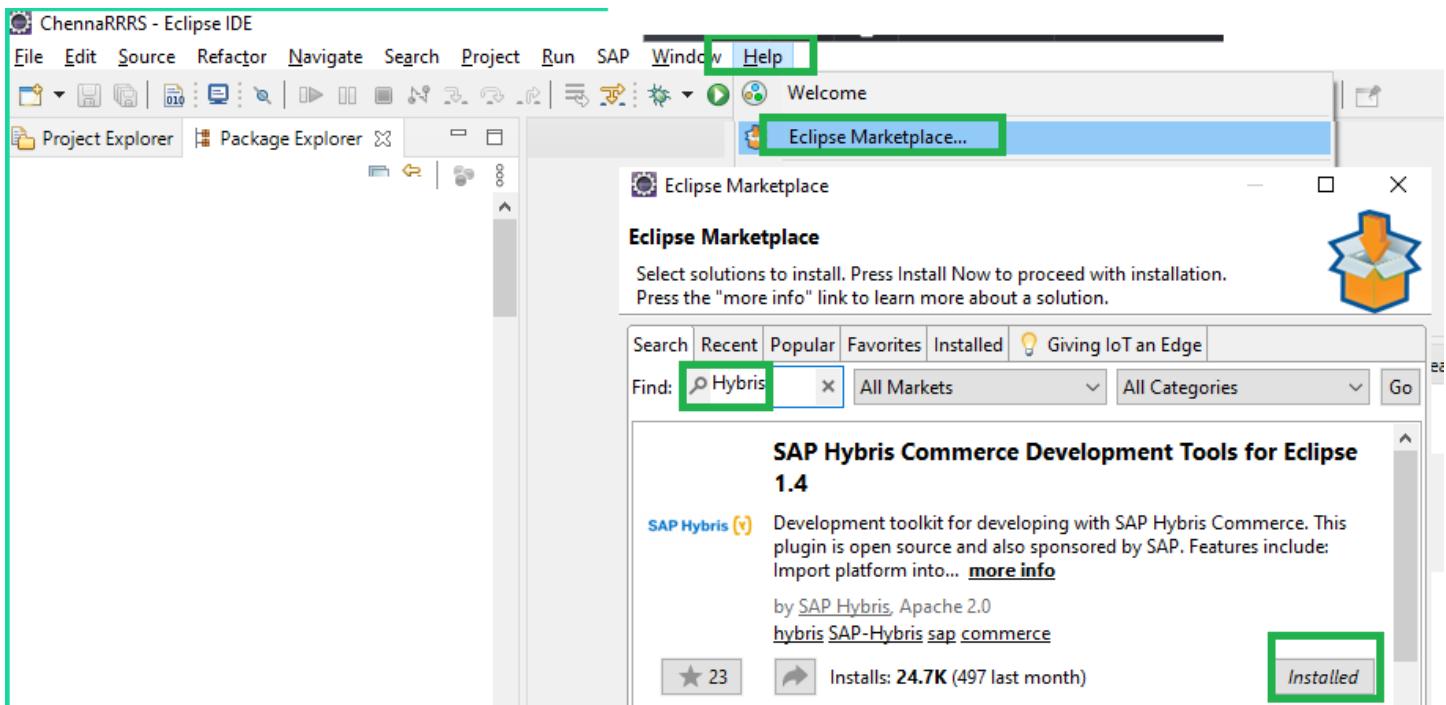
==== It's very **difficult** for us to identify all the dependent Exts & load into Eclipse.

**Q =** Is there any easy for this?

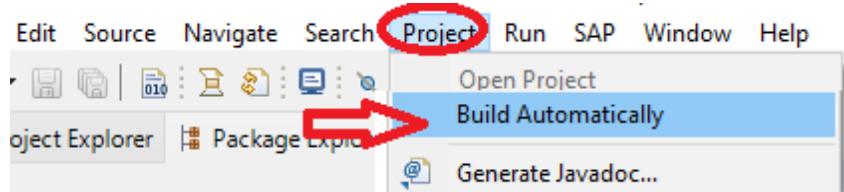
**Ans =** We can use **Plug-Ins**.

This Plug-in will identify all the dependent Exts & load into Eclipse.

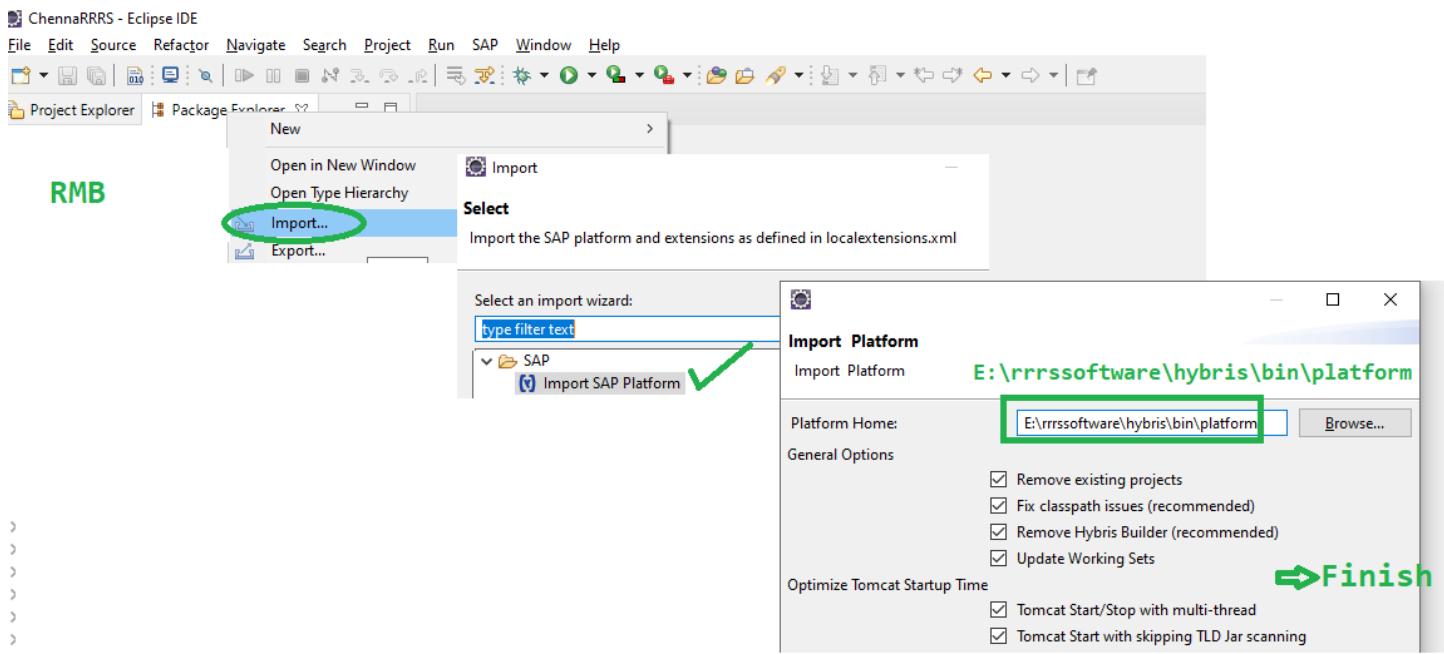
**Step 1 = Open the Eclipse & Install the Plug-In [& then restart Eclipse]**



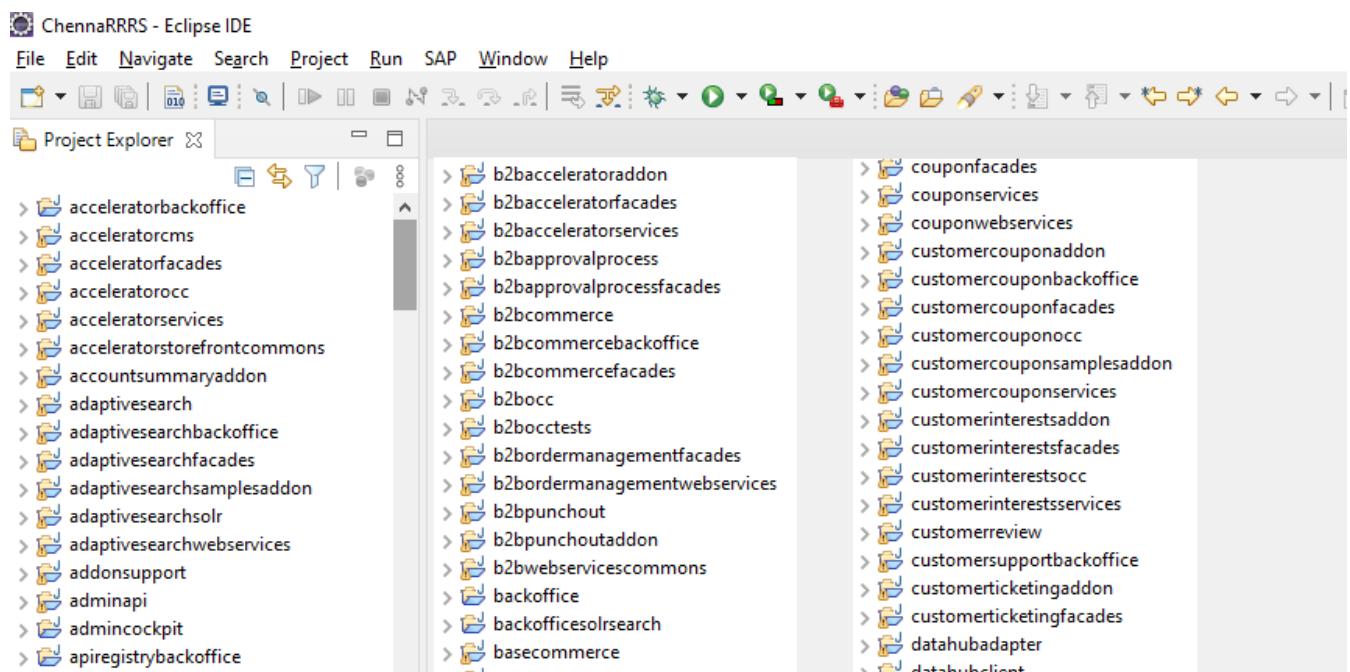
## Step 2 = Disable Build Automatically



## Step 3 = Open Eclipse -- Import the Code



## Results =



## **Scenario = Hot Swapping / Deployment Tools?**

Let's say – We have done some changes in “CartPageController.java (or) any other \*.java” file then

After changes are done – we need to do the “build & re-start server” to see the results.

Build [ant clean all] = ~20 mins

Server Start = ~20 mins

That means --- To see the results developer needs to wait **~40 mins.**

That means – Lots of developer time is wasted.

**Q = Then what to do?**

Ans = We can use “Hot deployment / Swapping tools”.

**Example = JRebel** (or) some other tools also available.

<https://help.sap.com/viewer/d0224eca81e249cb821f2cdf45a82ace/1905/en-US/8be5ab06866910149c83e0bd4a187fd8.html>

**Q = What is the Use of JRebel?**

JRebel is a productivity tool for Java EE development.

By eliminating the wasteful **build** and **redeploy** phases from the development cycle, teams can focus on adding new features, improving code quality, and finishing projects faster.

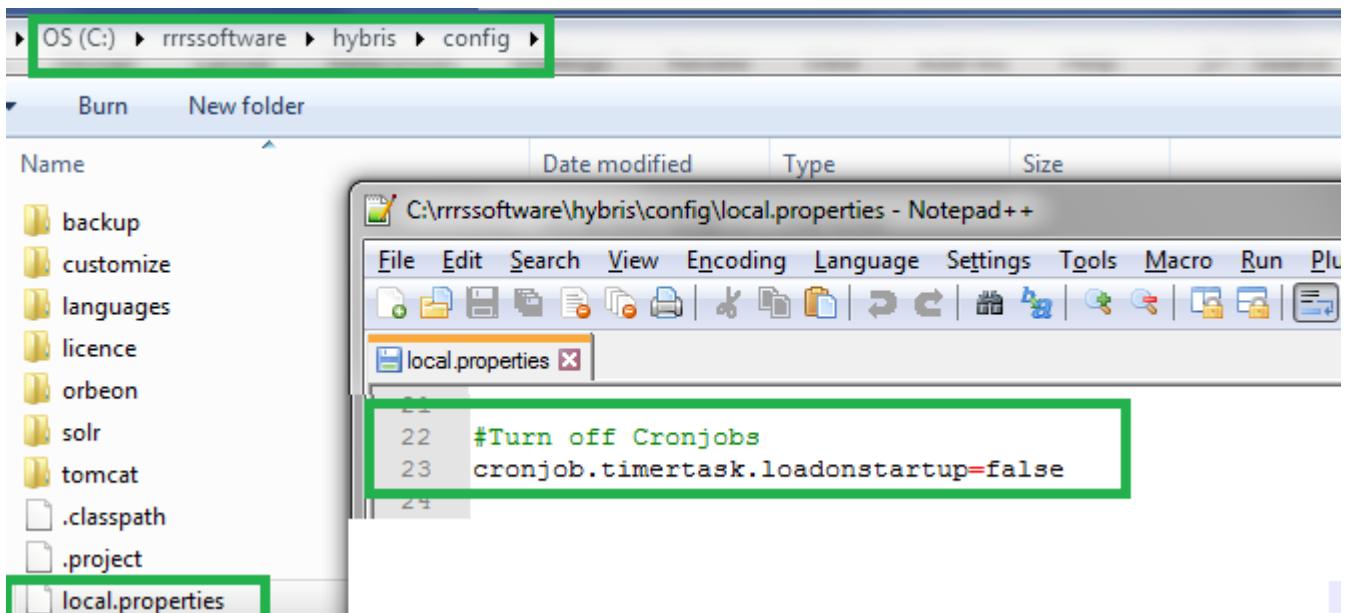
**Scenario** = We are noticing that, “SAP Comm” Hybris Server Start up is taking **more time**.

That means --- C:\rrrssoftware\hybris\bin\platform>**Hybrisserver.bat** [This is taking lots of time].

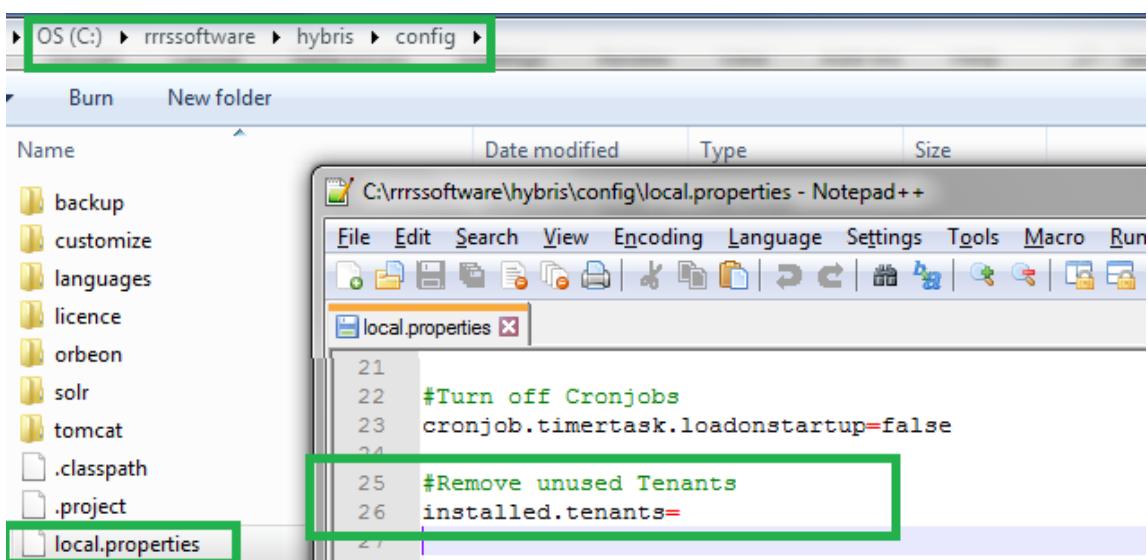
**Q** = How to speed up (or) decrease the Hybris Server Start up time?

**Sol 1** = Turn off Cronjobs [Default Cronjobs]

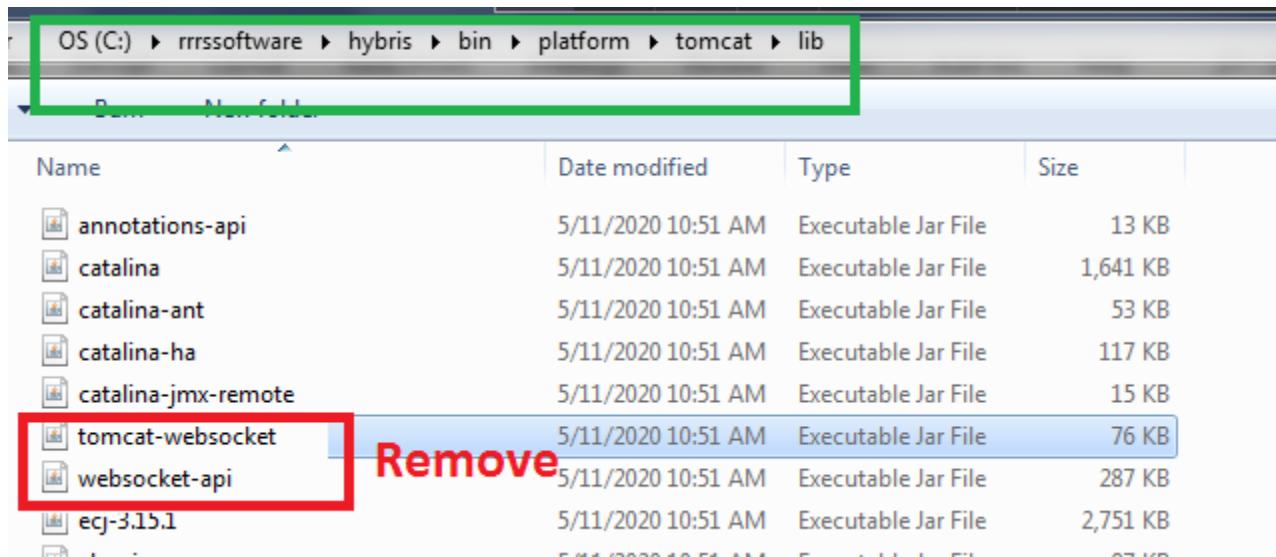
Cronjob == It's a program runs background.



**Sol 2** = Remove unused Tenants



## Sol 3 = Remove Web Socket Jar file

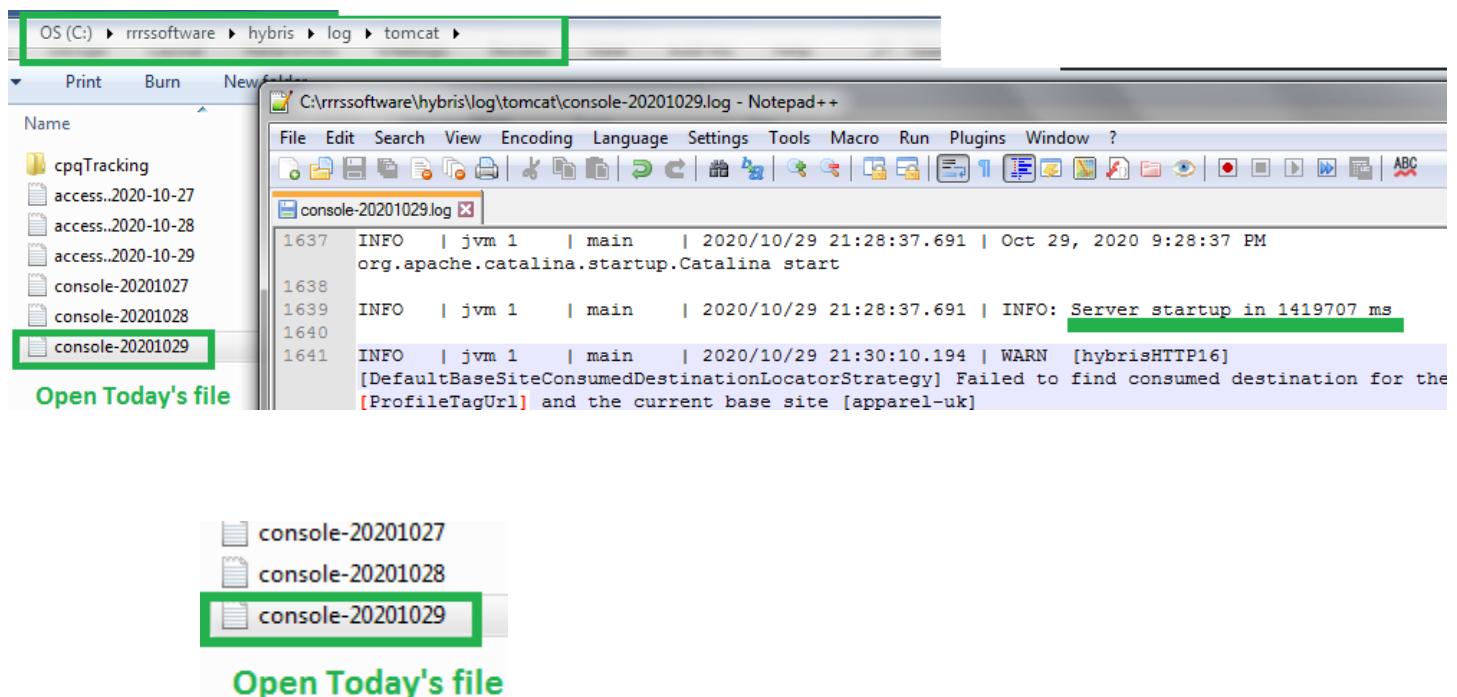


Note = After doing above 3 solutions...

Do the build “**ant clean all**” + Start the server [**Hybrisserver.bat**] and check the **server start up time / speed**.

This improves almost **40% – 50%** time.

**Scenario = How to see the “SAP Comm” hybris server logs?**



Name	Date modified	Type	Size
console-20210608	08-06-2021 22:58	Text Document	67 KB
console-20210609	09-06-2021 23:24	Text Document	1,644 KB

**Challenge = This is local PC. Hence we can go to this location & see the logs.**

**Q = What about if we want to see logs in "QA SAP Comm / UAT SAP Comm / Prod SAP Comm"?**

Generally – We can use software like “Putty / FileZilla / WinSCP / ...” & connect “QA System / UAT System / Prod System”. Then go to above location & see the logs.

**Challenge** = This is difficult procedure.

For this “SAP Comm” provides an easy way [hAC – Support].

**Requirements** = You want to see the “Prod SAP Comm Logs”?

You're Administrator [logout](#) **Go to "Prod - hAC"**

Platform Monitoring Maintenance Console

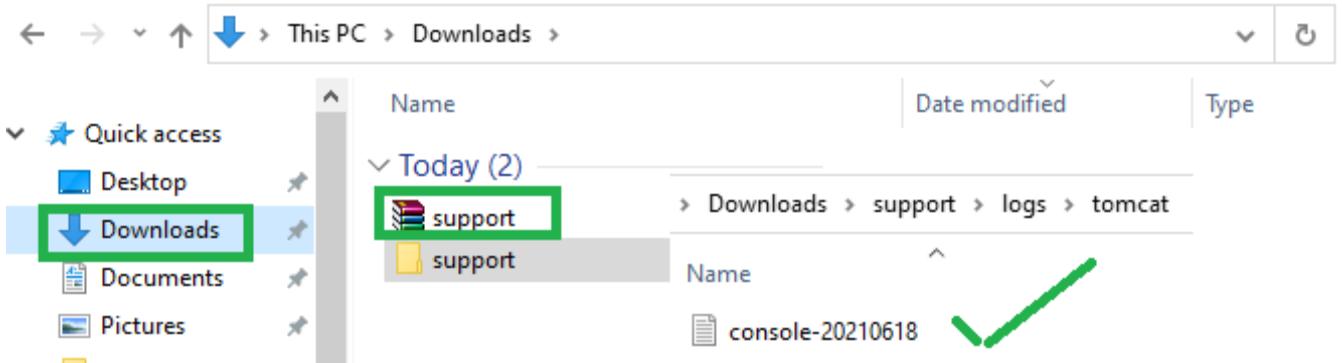
Tenants Configuration System Logging Extensions Initialization Update SQL Scripts License Support PK Analyzer Class

Create ZIP File

Select all

- console-20210617.log (873kb - E:\rrrssoftware1\hybris\log\tomcat)
- console-20210618.log (50kb - E:\rrrssoftware1\hybris\log\tomcat)
- cpqTracking.log (0kb - E:\rrrssoftware1\hybris\log\tomcat\cpqTracking)

**Create** **Download (366kb)..** **Send in email**



## Scenario = How to stop the Hybris Server?

```
C:\Windows\System32\cmd.exe - hybrisserver.bat
INFO [hybrisHTTP26] [LoginFormComposer] Available UI locales for back office: [de, en, es, es_CO, fr, it, ja, ko, pt, ru, zh, zh_TW, hi, id, cs, pl, hu]
INFO [hybrisHTTP4] [LabelLoaderImpl] Loading labels for en
INFO [hybrisHTTP4] [LabelLoaderImpl] Opening jar:file:/E:/rrrssoftware1/hybris/bin/modules/backoffice-framework/backoffice/web/webroot/WEB-INF/lib/cockpitadmin-20.05.0-RC3.jar!/metainfo/zk-label.properties

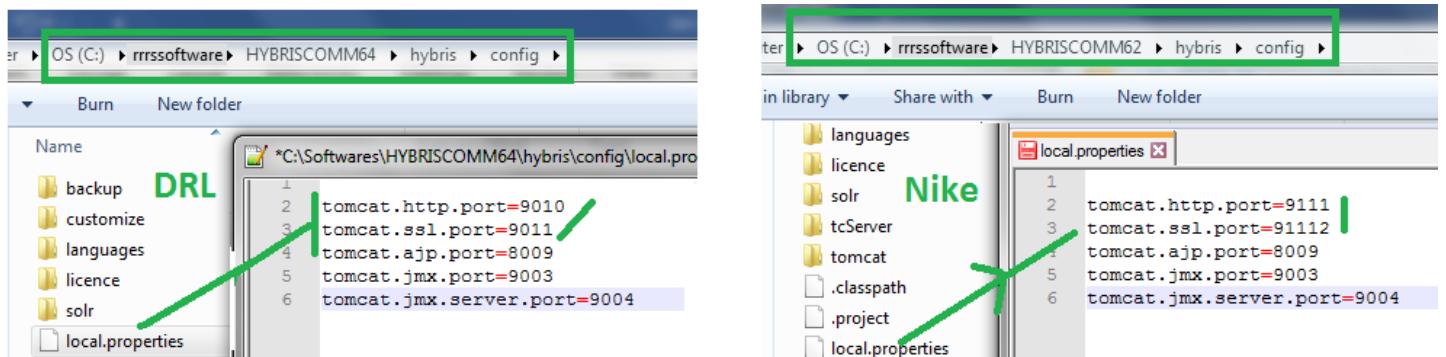
Press "CTRL + C" [3 / 4 times do it]
```

**Q** = Can we run multiple “SAP Comm” servers in 1 machine? = Yes.

Let's say – You are working for 2 “SAP Comm” projects.

Client1 using “SAP Comm” **1808** & Client2 using “SAP Comm” **2005**.

We can be able to run both server in 1 machine, but make sure port numbers varies.



## Scenario = B2B Website

URL =

<https://localhost:9002/yb2bacceleratorstorefront/?site=powertools>

<https://localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/>

Some companies – Without login they **allow** you to see the products.

Some companies – Without login they **don't allow** you to see the products.

The screenshot shows a web browser window with the URL [localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/login](https://localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/login). The page title is "B2B Accelerator". The main heading is "Returning Customer". Below it are two input fields: "EMAIL ADDRESS" and "PASSWORD", each with a corresponding text input box. Below the password field is a link "Forgot your password?". At the bottom are two buttons: "REGISTER" (gray background) and "LOG IN" (blue background).

Q = Which of the following the B2B functionalities?

- 1) Order Approvals
- 2) Punch-out
- 3) Budget
- 4) Powertools
- 5) **All Above**

SAP Administration Cockpit

*Below are the different functionalities for B2B*

Filter tree (Alt+Down for options)

B2B Commerce

- Document
- PunchOut Credential
- B2B PunchOut Mapping
- B2B Unit
- B2B Customer
- B2B Cost Center
- B2B Budget

B2B User Group

B2B Reporting Set

B2B Merchant Check

Future Stock

B2B Approval Process

B2B Permission

Merchandising

Merchandising configuration

Merchandising indexing configuration (Deprecated)

The screenshot shows the SAP Administration Cockpit interface. On the left, there's a navigation tree with a yellow border around the 'B2B Commerce' section. The tree includes 'Document', 'PunchOut Credential', 'B2B PunchOut Mapping', 'B2B Unit', 'B2B Customer', 'B2B Cost Center', and 'B2B Budget'. To the right of the tree are several functional links: 'B2B User Group', 'B2B Reporting Set', 'B2B Merchant Check', and 'Future Stock'. Further to the right, under 'B2B Approval Process', are 'B2B Permission', 'Merchandising', and 'Merchandising configuration'. A note at the top right says 'Below are the different functionalities for B2B'. A red annotation at the top right of the main content area says 'Below are the different functionalities for B2B'.

SAP Administration Cockpit

Filter tree (Alt+Down for options)

B2B Commerce

- Document
- PunchOut Credential
- B2B PunchOut Mapping
- B2B Unit
- B2B Customer**
- B2B Cost Center
- B2B Budget

0 ITEMS SELECTED

William Hunter [william.hunter@pronto-hw.com]

REFRESH SAVE

GENERAL ADDRESSES APPROVERS **PASSWORD** PAYMENTS COUPON ORDERS TICKETS PERMISSIONS REVIEWS PRICES PERSON

Password Type: Standard Change Password: .....  
.....

Disable Login:  True  False

## B2B Accelerator

Returning Customer

EMAIL ADDRESS

william.hunter@pronto-hw.com

PASSWORD

.....

[Forgot your password?](#)

REGISTER

LOG IN

Now you will be able to login & we can see the products.

== Add items to cart & try to place the order.

You can also see – “Request A Quote”

← → ⌂ Not secure | localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/cart

I'm looking for

(1 ITEMS) \$64.00

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

HOME / CART Help

Order before 6pm for **NEXT DAY DELIVERY**

Cart | ID: 00001000

CONTINUE SHOPPING REQUEST A QUOTE CHECK OUT

## B2B Customer =

The screenshot shows the SAP CX Backoffice interface. On the left, a sidebar lists various B2B entities: Document, PunchOut Credential, B2B PunchOut Mapping, B2B Unit, B2B Customer (highlighted with a green oval), B2B Cost Center, B2B Budget, and B2B User Group. Under SAVED QUERIES, it says 'No queries'. The main area displays a customer record for 'William Hunter' with the email 'william.hunter@pronto-hw.com'. The 'GENERAL' tab is selected. The 'ESSENTIAL' section contains fields for Name (William Hunter), ID (william.hunter@pronto-hw.com), Customer ID (49f749e1-53cb-44e8-98ce-4d60e4), and Original UID (william.hunter@pronto-hw.com). The 'PROPERTIES' section includes Standard Language (English [en]), Standard Currency (US Dollar [USD]), Groups (Pronto Services, B2B Customer Group [b2bcust...]), and Description (Customer C). A tooltip for the 'Groups' field shows 'enhancedPermissions Pronto' with a red 'X' icon.

The screenshot shows the B2B Accelerator website's checkout process. The top navigation bar includes links for Powertools Site | Homepage, SAP CX Backoffice, and Checkout | Powertools Site. The main content area has a header 'B2B Accelerator' with a search bar and a cart icon showing '(1 ITEMS) \$172.00'. Below the header are category links: POWER DRILLS, ANGLE GRINDERS, SCREWDRIVERS, SANDERS, MEASURING & LAYOUT TOOLS, HAND TOOLS, and SAFETY. The breadcrumb navigation shows HOME / CHECKOUT / PAYMENT TYPE. The main title is 'Checkout & Place Order'. On the left, a 'Secure Checkout' section asks for '1. Payment Type' with radio buttons for 'CARD PAYMENT' (selected) and 'ACCOUNT PAYMENT'. A green arrow points from this section down to the 'Order Summary' on the right. The 'Order Summary' section shows a summary of items to be delivered, including a GST 85 PE power drill at \$172.00 each, quantity 1. The subtotal is listed as \$172.00.

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## B2B Manager =

The screenshot shows the SAP CX Backoffice interface. On the left, a sidebar menu is open under 'B2B Commerce' with 'B2B Customer' selected. The main area displays a customer profile for 'William Hunter [william.hunter@pronto-hw.com]'. The 'GENERAL' tab is active. The profile includes fields for Standard Language (English [en]), Standard Currency (US Dollar [USD]), Groups (Pronto Services, enhancedPermissions Pronto), and Description (Customer C). A green box highlights the 'B2B Manager Group [b2bmanagergroup]' entry in the Groups list.

The screenshot shows the B2B Accelerator storefront. At the top, it says 'WELCOME WILLIAM' and 'SIGN OUT'. Below the header is a navigation bar with links for POWER DRILLS, ANGLE GRINDERS, SCREWDRIVERS, SANDERS, MEASURING & LAYOUT TOOLS, HAND TOOLS, and SAFETY. The current page is 'HOME / CART'. A message box contains the text: 'Your account does not allow you to checkout here.' A red box highlights this message. Above the message, a red annotation in red text reads: 'Bcoz -- Right now Customer is having = "B2B Manager Group"'. Below the message, there's a promotional banner for 'NEXT DAY DELIVERY' with a delivery truck icon. At the bottom, there's a cart summary: 'Cart | ID: 00000000' and buttons for 'REQUEST A QUOTE' and 'CHECK OUT'.

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**Q = What are the list of the available “B2B Groups”?**

- B2B Group [b2bgroup]
- B2B Admin Group [b2badmingroup]
- B2B Customer Group [b2bcustomergroup]
- B2B Manager Group [b2bmanagergroup]
- B2B Approver Group [b2bapprovergroup]

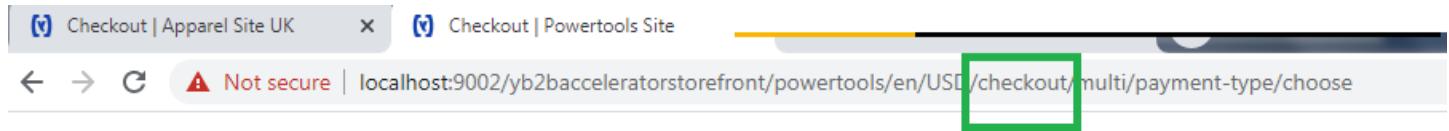
B2B Registration Approver  
[b2bregistrationapprovergroup]

My Organization Customers  
[b2bCustomerList]

## Scenario = PO Number

In B2B Site – PO Number is given in Checkout page.

In B2B Site – PO Number is 1<sup>st</sup> priority [Card is 2<sup>nd</sup> priority].



The screenshot shows a web browser window with two tabs open:

- Checkout | Apparel Site UK
- Checkout | Powertools Site

The URL bar displays: <localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/checkout/multi/payment-type/choose>. A green box highlights the URL.

**Secure Checkout**

**Order Summary**

**1. Payment Type**

CARD PAYMENT (radio button)

ACCOUNT PAYMENT (radio button, selected)

P.O. NO. (text input field)

COST CENTER (dropdown menu): PLEASE SELECT...

**Items to be delivered**

 Cordless Drill BT-4  
Item Price: \$39.00  
QTY: 1

Subtotal:

**ORDER TOTAL**

B2B Means = Company (IBM) to Company (Lenovo) business.

These companies talk each other's & they exchange the Info [Terms & conditions] and they document it. This Doc is called **PO Number**.

We don't have option in "SAP Comm" for creating **PO number**.

Generally, PO number will be created in System like SAP / PS / ....

U will be using that PO number & to do the transaction in "SAP Comm".

That's why in case B2B – PO number implementation is important.

PO number is OOTB in "SAP Comm" B2B.

**Note** = You can say ... I work with PO number functionality.

If PO no is OOTB then what did you work?

Yes. PO number is OOTB but is given in **Checkout Page**.

My company Requirement is to have this PO number in **Cart page**.

## Cart Page

The screenshot shows a shopping cart interface. On the left, there's a summary of items: a Mi LED Smart TV 4A PRO 80 cm (32) with Android#JustHere. Below it, a product detail section shows an image of a smartphone, the model 200 KG DR, and the material number 16963. It also lists the quantity (4 DR), EMI options (₹2,167/month. Standard EMI also available), and unit total (1,640.00 USD). On the right, there's a sidebar for 'Purchase Order Number' with a field placeholder 'Please enter a P.O. number' and a 'Pay by Credit Card' checkbox. At the bottom, an 'Order Summary' table shows the subtotal in USD and BRL.

Subtotal	1,640.00 USD 188.078,00 BRL
----------	--------------------------------

**Note** = This PO number free input text field. So, there is possibility that customer can enter wrong PO number. Validating the PO number is important. We can do validations: -

- 1) During cart simulation [We can avoid extra call to validate the PO]
- 2) Duration Order submission
- 3) Pre-populate valid PO number associated to User
- 4) After entering PO ... Send call to SAP immediately

The screenshot shows a B2B e-commerce cart page. At the top, the URL is https://localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/cart. On the left, there's a delivery address section with a 'Change' link and a company section. In the center, there's a product item for '200 KG DR' with a material number 16963. It shows a quantity of 4 DR, a delivery date of 24 May 2018, a unit price of 410.00, and a unit total of 1,640.00 USD. On the right, there's a sidebar for 'Purchase Order Number' with a placeholder 'Please enter a P.O. number' and a 'Pay by Credit Card' checkbox. Below that is an 'Order Summary' section showing a subtotal of 1,640.00 USD and 188.078,00 BRL. At the bottom right is a large red 'CHECKOUT' button. A red box highlights the 'Purchase Order Number' input field.

Note = PO Number functionality is not there in B2C.

**User Story** = In B2C project ... Customer should be able to place the order by using PO number?

==== Customization.

**User Story** = In B2B project ... Customer should be able to enter PO number in "Product details" page?

==== Customization.

# Scenario = My Account

B2C Accelerator

WELCOME CHENNAI [MY ACCOUNT](#) [SIGN OUT](#)

Personal Details	Email Address	Payment Details
Password	Order History	Address Book
Saved Carts	Consent Management	Close Account
Returns History	Support Tickets	

I'm looking for

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

Thank you for registering.

B2B Accelerator

WELCOME WILLIAM [MY ACCOUNT](#) [SIGN OUT](#)

Personal Details	Email Address	Payment Details
Password	Order History	Address Book
Quotes	Replenishment Orders	Saved Carts
Returns History	Support Tickets	

I'm looking for

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

HOME / OPEN CATALOGUE / TOOLS / SANDERS / GEX 125-1 AE

GEX 125-1 AE | ID 4567174

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## Scenario = B2B “My Account”

The screenshot shows a web browser window with two tabs: "Apparel Site UK | Homepage" and "GEX 125-1 AE | Sanders | Tools". The main content area is titled "B2B Accelerator" and displays a grid of account management options:

Personal Details	Email Address	Payment Details
<b>B2B Customer Group</b>		
Password	Order History	Address Book
Quotes	Replenishment Orders	Saved Carts
Returns History	Support Tickets	

The screenshot shows a web browser window with two tabs: "Apparel Site UK | Homepage" and "GEX 125-1 AE | Sanders | Tools". The main content area is titled "B2B Accelerator" and displays a grid of account management options:

Personal Details	<b>B2B Manager Group</b>	Email Address	<b>B2B Registration Approver</b>	Password	<b>B2B Admin Group</b>
Saved Carts		Returns History		Support Tickets	

The screenshot shows a web browser window with two tabs: "Apparel Site UK | Homepage" and "GEX 125-1 AE | Sanders | Tools". The main content area is titled "B2B Accelerator" and displays a grid of account management options:

Personal Details	<b>B2B Approver Group</b>	Email Address	Password
Approval Dashboard		Saved Carts	Returns History
Support Tickets			

The screenshot shows a web browser window with two tabs: "Apparel Site UK | Homepage" and "GEX 125-1 AE | Sanders | Tools". The main content area is titled "B2B Accelerator" and displays a grid of account management options:

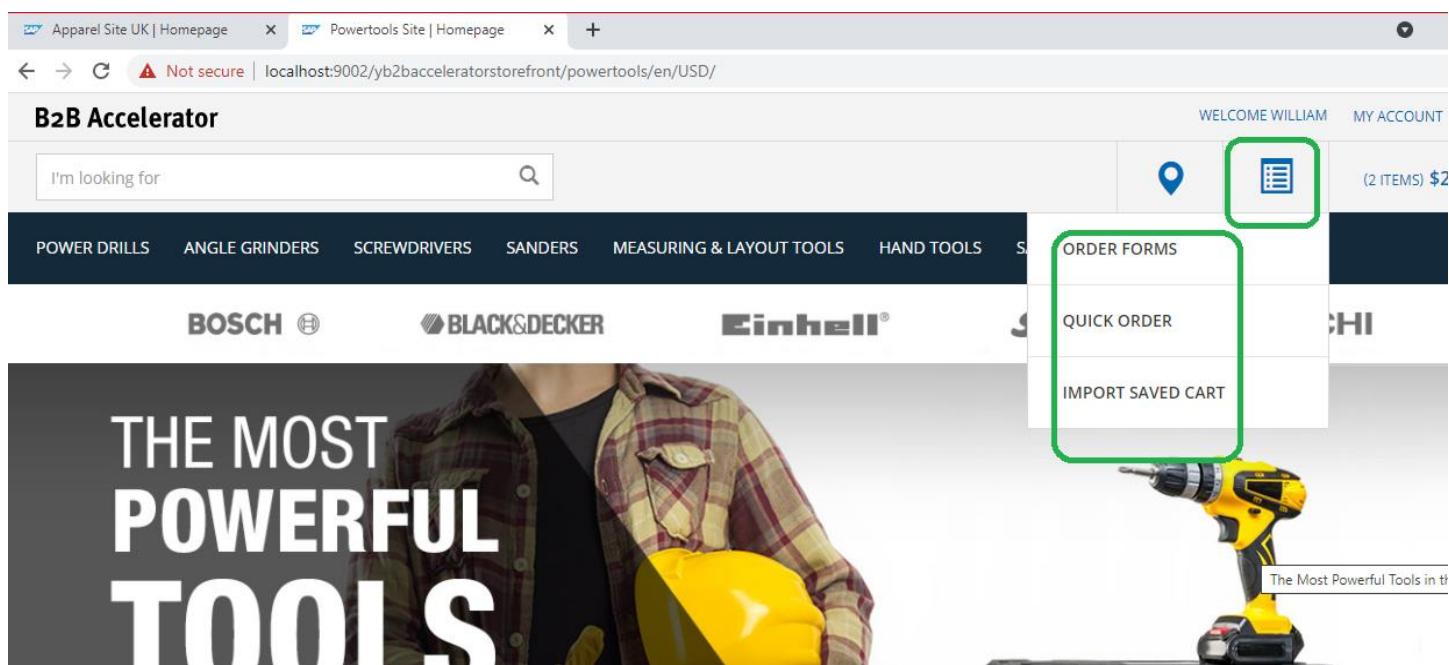
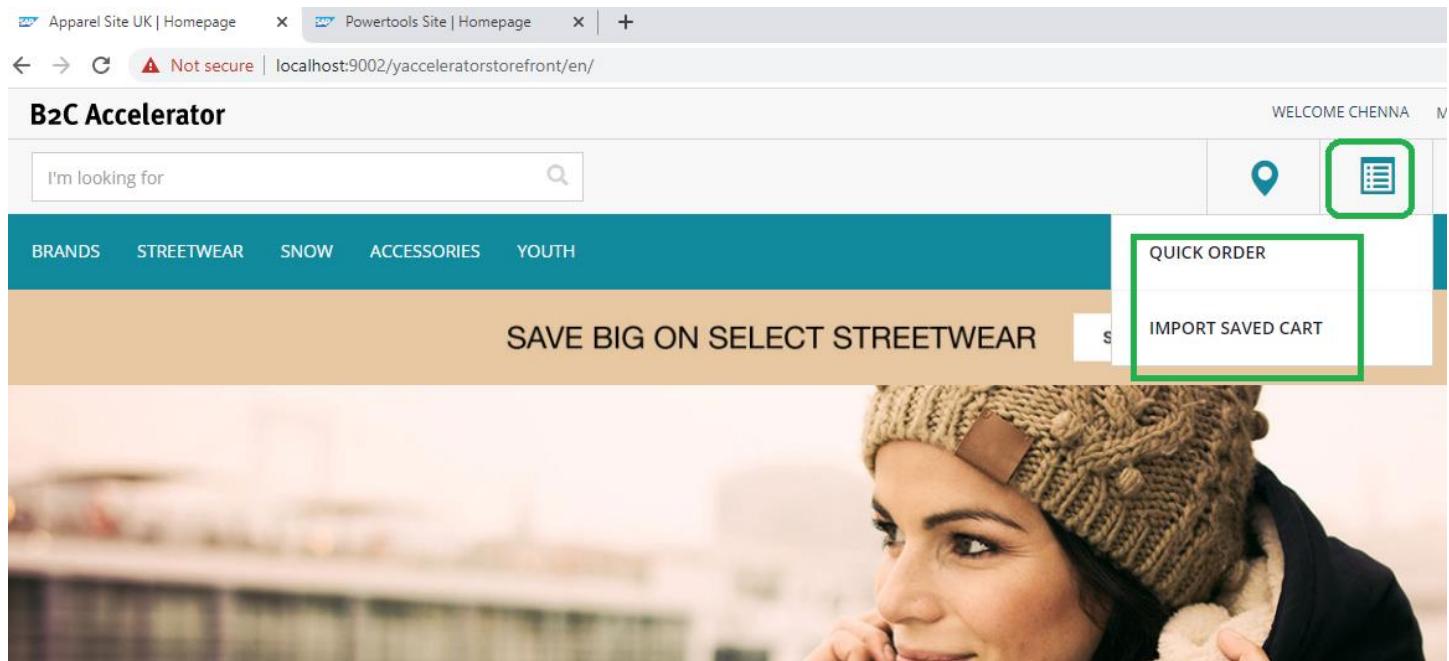
Budgets	Cost Centers	<b>B2B Admin Group</b>	Units
Users	User Groups		Permissions
Account Summary			Permissions

A yellow arrow points from the "MY COMPANY" button in the top navigation bar to the "B2B Admin Group" section.

## Scenario = Order Forms

B2C = No Order Forms

B2B = Has Order Forms



Apparel Site UK | Homepage Order Forms | Powertools Site Not secure | localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/search/advanced

WELCOME WILLIAM MY ACCOUNT SIGN

## B2B Accelerator

I'm looking for

POWER DRILLS ANGLE GRINDERS SCREWDRIVERS SANDERS MEASURING & LAYOUT TOOLS HAND TOOLS ORDER FORMS

HOME / ORDER FORMS

QUICK ORDER IMPORT SAVED CART

### Order Forms

ENTER PRODUCT ID(S) SEPARATED BY A COMMA  
4567174,4567162,4567181

ORDER FORM  CREATE ORDER FORM

PRODUCT IDS ONLY

Apparel Site UK | Homepage Order Forms | Powertools Site Not secure | localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/search/advanced?keywords=4567174%2C4567162%2C4567181&onlyProductIds=true&\_onlyProduct...

### SEARCH

3 Products found

ITEM (STYLE NUMBER)	PRICE	PRODUCT DETAILS	ITEM ID	QTY	TOTAL
 GST 75 BE	\$128.00		<input checked="" type="checkbox"/> 4567162		
 GEX 125-1 AE	\$105.00		<input checked="" type="checkbox"/> 4567174		
 GWS 24-230 LVI	\$210.00		<input checked="" type="checkbox"/> 4567181		

CREATE ORDER FORM

3 Products found

Activate Windows  
Go to settings to activate Windows.

CREATE ORDER FORM

## Scenario = Pick Up In Store

B2C

£28.31

The Ginga Cap by Quiksilver won't only protect you from the sun, it's also  
70% Cotton 27% Polyester 3% Elastane

COLOUR: white

SIZE: SM

SIZE SM, £28.31 2

- 1 +

ADD TO BAG

PICK UP IN STORE

Activate Win

B2B Accelerator

I'm looking for

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

HOME / OPEN CATALOGUE / TOOLS / POWER DRILLS / GSR 12 V

GSR 12 V | ID 4567192

Product review summary

★★★★★ | Write a Review

\$131.00

GSR 12 V Professional

- 1 +

65 In Stock Future Availability

Activate Windows  
Go to Settings to activate Windows.

ADD TO CART

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## Scenario = Request A Quote [Cart Page]

B2C = No Request A Quote

B2B = Request A Quote

This screenshot shows a B2C shopping cart page. At the top, there are two tabs: "Your Shopping Bag | Apparel Site" and "Your Shopping Cart | Powertools". The cart tab is active, showing a warning: "⚠️ Not secure | localhost:9002/yacceleratorstorefront/en/cart". The page title is "B2C Accelerator". The header includes a search bar, location services, and a sign-in link. Below the header, there's a navigation menu with categories: BRANDS, STREETWEAR, SNOW, ACCESSORIES, and YOUTH. The breadcrumb navigation shows "HOME / BAG". On the left, there's a sidebar with a "Bag" section containing ID: 00000001 and a "NEW CART" button. In the center, there are "CONTINUE SHOPPING" and "CHECK OUT" buttons. A "EXPORT CSV" link is available. The main content area displays a single item in the cart:

ITEM (STYLE NUMBER)	PRICE	QTY	DELIVERY	TOTAL
Ginga Cap white SM 300604627 Size: SM Style: white In Stock	£28.31	1	SHIP	£28.31

On the right, there's a note: "Activate Windows Go to Settings to activate Windows." A "More" options menu is shown next to the total.

This screenshot shows a B2B shopping cart page. The layout is similar to the B2C page, with tabs for "Your Shopping Bag | Apparel Site" and "Your Shopping Cart | Powertools". The cart tab is active, showing a warning: "⚠️ Not secure | localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/cart". The page title is "B2B Accelerator". The header includes a search bar, location services, and a sign-in link. Below the header, there's a navigation menu with categories: POWER DRILLS, ANGLE GRINDERS, SCREWDRIVERS, SANDERS, MEASURING & LAYOUT TOOLS, HAND TOOLS, and SAFETY. The breadcrumb navigation shows "HOME / CART". A large banner at the top says "Order before 6pm for NEXT DAY DELIVERY" with an arrow pointing to a delivery truck icon. On the left, there's a sidebar with a "Cart" section containing ID: 00000000 and a "NEW CART" button. In the center, there are "CONTINUE SHOPPING", "REQUEST A QUOTE", and "CHECK OUT" buttons. A "EXPORT CSV" link is available. The main content area displays a single item in the cart:

ITEM (STYLE NUMBER)	PRICE	QTY	DELIVERY	TOTAL
Trenchtown Jacket blackout S				

A large yellow arrow points down to the "REQUEST A QUOTE" button. On the right, there's a note: "Activate Windows Go to Settings to activate Windows." A "More" options menu is shown next to the total.

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# Scenario = Checkout

B2C = 4 Checkout Steps

B2B = 5 Checkout Steps

Checkout | Apparel Site UK    x    Checkout | Powertools Site    x    +

Not secure | localhost:9002/yacceleratorstorefront/en/checkout/multi/delivery-address/add

## B2C Accelerator

I'm looking for

(2 ITEMS) £141.67

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

HOME / CHECKOUT / SHIPMENT/PICK UP LOCATION

**Secure Checkout**

**Checkout Steps**

1. Shipment/Pick Up Location

2. Shipping Method

3. Payment & Billing Address

4. Final Review

## Order Summary

Items to be delivered



Trenchtown Jacket blackout S

Item Price: £113.36

QTY: 1

Size: S

Style: blackout

£113.36



Ginga Cap white SM

Item Price: £28.31

QTY: 1

Size: SM

£28.31

Checkout | Apparel Site UK    x    Checkout | Powertools Site    x    +

Not secure | localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/checkout/multi/payment-type/choose

## B2B Accelerator

I'm looking for

(14 ITEMS) \$2,052.00

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

HOME / CHECKOUT / PAYMENT TYPE

**Secure Checkout**

**Checkout Steps**

1. Payment Type

2. Shipping Address

3. Shipping Method

4. Payment & Billing Address

5. Final Review

## Order Summary

Items to be delivered



GST 85 PE

Item Price: \$172.00

QTY: 1

\$172.00



CD12CE

Item Price: \$79.00

QTY: 1

\$79.00

## Scenario = Checkout & Order

B2C = Guest customer (or) Login customer can checkout & place order.

B2B = Login customer can checkout & place order.

The screenshot shows the B2C Checkout page for Apparel Site UK. It features two main sections: 'Returning Customer' on the left and 'New to Apparel Site UK?' on the right. Both sections have large blue arrows pointing downwards towards their respective 'LOG IN AND CHECK OUT' and 'CHECK OUT AS A GUEST' buttons. The 'Returning Customer' section includes fields for Email Address and Password, and links for 'Forgot your password?' and 'EXPRESS CHECKOUT'. The 'New to Apparel Site UK?' section includes fields for Email Address and Confirm Email Address. At the bottom right, there is a note about activating Windows.

The screenshot shows the B2B Accelerator Checkout page. On the left, the 'Secure Checkout' section displays a 'Payment Type' step with options for 'CARD PAYMENT' (selected) and 'ACCOUNT PAYMENT'. It also has a 'P.O. NO.' input field and a 'NEXT' button. On the right, the 'Order Summary' section shows three items: 'GST 85 PE' (Item Price: \$172.00, QTY: 1), 'CD12CE' (Item Price: \$79.00, QTY: 1), and 'GST 75 BE' (Item Price: \$128.00, QTY: 2). The total value is \$256.00. There is also a note about activating Windows at the bottom right.

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## Scenario = Notify Me When In Stock

Product review summary

Write a Review

£20.21

Your pants are always sliding down? Well, the Lenus belt is your solution, with this Billabong belt your trousers will remain where it is meant to be.

Cotton

COLOUR: kelly

SIZE: Uni

SIZE UNI, £20.21 0

- 1 +

OUT OF STOCK

Activate Windows  
Go to Settings to activate Windows.

NOTIFY ME WHEN IN STOCK

## Scenario = Reviews & Rating

GEX 125-1 AE | Sanders | Tools |

416 In Stock Future Availability

ADD TO CART

BOSCH GEX 125-1 AE Professional

PRODUCT DETAILS | SPECS | REVIEWS | DELIVERY

REVIEWS

WRITE A REVIEW

Activate Windows  
Go to Settings to activate Windows.

## Scenario = Languages

B2C Apparel = For each Lang & Curr we have 1 separate website.

Example = Apparel UK Site & Apparel DE Site.

Apparel Site UK | Homepage | Powertools Site | Homepage | +

Not secure | https://localhost:9002/yacceleratorstorefront/?site=apparel-uk&clear=true

B2C Accelerator

I'm looking for  English & Pounds

BRANDS STREETWEAR SNOW ACCESSORIES YOUTH

Bekleidungs-Website DE | Startse | Powertools Site | Homepage | +

Not secure | localhost:9002/yacceleratorstorefront/?site=apparel-de&clear=true

B2C Accelerator

Ich suche  German & Euro

MARKEN STREETWEAR SNOW ACCESSORIES JUGEND

B2B = Languages are dropdown selectable.

Not secure | localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/

PSR 960	PSR 10.8 LI	PSR 14.4 LI-2	BT-HS 12	LABORATORY BOTTLE
\$79.00	\$96.00	\$149.00	\$28.00	\$4.00

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

SAP Commerce Cloud About SAP Commerce Cloud Documentation SAP Customer Experience Visit SAP Contact Us Follow Us Agile Commerce Blog LinkedIn Facebook Twitter ENGLISH 日本語 ENGLISH DEUTSCH 中文 Activate Windows Go to Settings to activate Windows.

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## Scenario = Languages & Currencies

B2C Electronics = Language & Currencies – Both are dropdown selectable.

B2B = Language is dropdown selectable.

The screenshot shows a B2C Electronics website with a top navigation bar indicating 'Not secure' and the URL 'localhost:9002/yacceleratorstorefront/?site=electronics&clear=true'. Below the header, there are four product cards: 'Samsung NV10 Compact Camera', 'Logitech QuickCam for Notebook Pro', 'Canyon Web Camera 100Kpixel CMOS', and 'Sony Light HVL-20DW2'. Each card has a 'VIEW' button. A banner below the products states 'FREE SHIPPING ON ALL ORDERS THIS WEEKEND' with a 'READ MORE' link. At the bottom, there are links for SAP Commerce Cloud, SAP Customer Experience, and social media follow options. On the right side, there are two dropdown menus for language ('ENGLISH', '日本語', 'DEUTSCH', '中文') and currency ('\$ USD', '¥ JPY', '\$ USD'). Yellow arrows point from the text labels 'Language is dropdown selectable.' to these dropdown menus.

The screenshot shows a B2B Powertools website with a top navigation bar indicating 'Not secure' and the URL 'localhost:9002/yb2bacceleratorstorefront/powertools/en/USD/'. The main content displays five product rows with details like PSR 960, PSR 10.8 LI, PSR 14.4 LI-2, BT-HS 12, and LABORATORY BOTTLE, along with their prices (\$79.00, \$96.00, \$149.00, \$28.00, \$4.00). Below the products, there are promotional banners for 'Great Prices & Great Deals' (25%), 'Shop with Confidence Easy 30-Day Return Policy' (30 day), 'Order by 6PM Same Day Shipment' (6 pm), and 'Great Service After You Buy' (24/7). At the bottom, there are links for SAP Commerce Cloud, SAP Customer Experience, and social media follow options. A large orange arrow points from the text label 'Language is dropdown selectable.' to a single language dropdown menu at the bottom right, which includes 'ENGLISH', '日本語', 'DEUTSCH', and '中文'.

## eCom Types / Classifications?

**1) B2B** = Companies doing business with each other

Examples: - McMaster ... Dell ...

**2) B2C** = Business selling to public without human interaction (through s/w).

Example: - Flipkart ... Amazon ...

3) C2B = Consumer post his project details online ... Companies bid for the project .... Consumer reviews & select the company.

Example: - elance.com / upwork.com

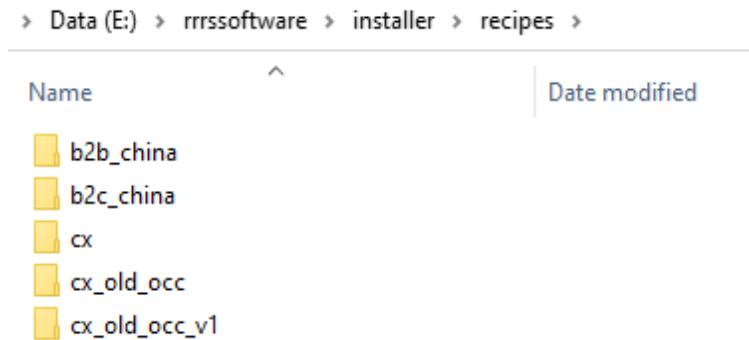
4) C2C = Place ADS online where individuals can buy & sell their goods.

Example: - Olx.com ...

5) ===

**Note** = “SAP Comm” majorly focus on B2B & B2C.

That's means ... “SAP Comm” providing ready to use flavoured (or) Quick start eComm called it “**Accelerators**”.



## B2C Registration – OOTB Vs OCM Company LAF: -

**Create an Account Registration - OOTB**

For a fast checkout, easy access to previous orders, and the ability to create an address book and store settings. Register below.

TITLE  
PLEASE SELECT

FIRST NAME

LAST NAME

**REGISTER**

Email\*

FirstName\*

LastName\*

Password\*

I am a...

By registering, you agree to OCM.com

## B2B – Registration

**Sol1** = Some companies allow the “Self-registration”.

Even though it's self-registration, they would be asking lots of Q.

You need to fill all those Q & Submit it.

After you submit, other company reviews info & provide / create the account.

Mercado\*

Ind-plastics-rubber

What is Your Company Size?

Seleccionar um

What is Your Industry / Company Type?

Seleccionar um

What is Your Role / Job Function?

Seleccionar um

What is Your Reason for Contacting Us?

Seleccionar um

Where are You in Your Purchase Process?

Seleccionar um

What is Your Preference for Follow-up?

Seleccionar um

Company (Customer / IBM) have to fill all these information & submit the registration form.

After submitting the form, there are 2 possibilities: -

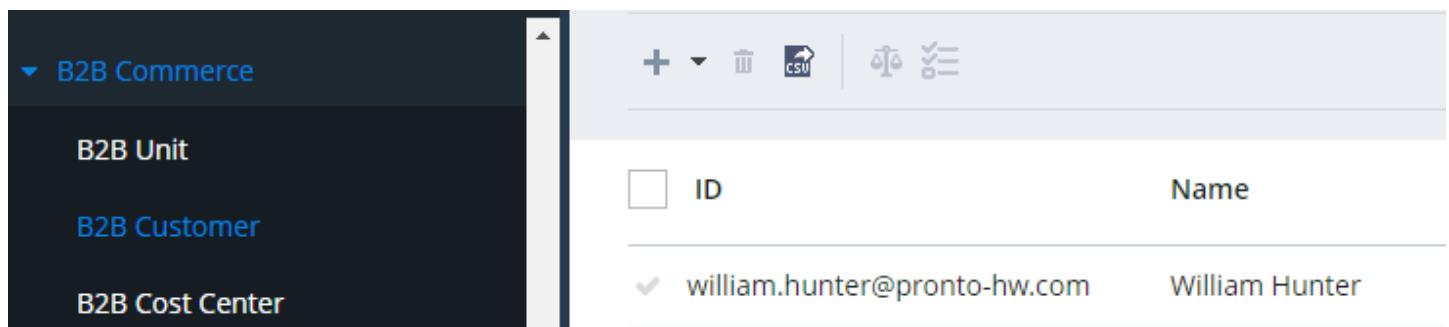
- 1) Create account without validations / verification (or)
- 2) Create account after verification of all the information

**Sol2** = Some companies will have “Registration by invite”.

That means ... IBM company & Oracle company doing the business each other. Oracle company can send the registration invite for IBM company.

IBM company people can use that invite & register them self.

**Sol3** = Company itself create account for you.



The screenshot shows a user interface for managing B2B commerce entities. On the left, a sidebar lists categories: B2B Commerce, B2B Unit, B2B Customer, and B2B Cost Center. The B2B Customer category is selected. On the right, a main panel displays a list of users. The columns are ID, Name, and Email. One user is listed: william.hunter@pronto-hw.com, Name: William Hunter. The user's email address is highlighted in orange.

ID	Name
william.hunter@pronto-hw.com	William Hunter

**Q** = What are the default steps available in checkout process for B2C?

- Shipping / Pickup Location
- Shipping Methods
- Payment & Billing Address
- Final Review

## B2C Payment Integration =

Paypal ... Paymetric ... CardConnect ... WePay ...

The screenshot shows a "Secure Checkout" page with the following structure:

- Checkout Step 1:** 1. Shipment/Pick Up Location
- Checkout Step 2:** 2. Shipping Method
- Checkout Step 3:** 3. Payment & Billing Address (This step is currently active, indicated by a blue underline)
- Checkout Step 4:** 4. Final Review

Below the steps, there is a section titled "Payment & Billing Address". Under "CARD TYPE", a dropdown menu displays "PLEASE SELECT A CARD TYPE".

← → ⌂ https://www.flipkart.com/checkout/init

The screenshot shows a "Flipkart" checkout page with the following sections:

- ORDER SUMMARY:** 3 items
- PAYMENT OPTIONS:** 4. PAYMENT OPTIONS

Two payment methods are highlighted with green boxes:

- WePay:** Shows fields for Credit card info, Pay with bank instead, Billing address, Name, Street address, Credit Card Number, City, State, Zip, MM, YY, CVV, and United States.
- Card Connect:** Shows fields for My Products, Credit Card, First Name, Last Name, Credit Card Number, Security Code, Expiration Month, and Expiration Year.

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**Note** = After entering “Shipping methods” & click next, we need to hit WePay URL.

Above WePay screen will be the results for us.

Get we WePay payment screen as iFrame.

We need to take that WePay iFrame & render in our “SAP Comm” checkout process.

**Note:** As payment screen is an iFrame provided by WePay... So, card security and .... are responsible by WePay.

**Note** = If we are going with this kind of integration (WePay).... Then rule is ... we should not store any of the card information in “SAP Comm”.

The image displays two side-by-side screenshots of a SAP Commerce checkout process. The left screenshot shows a 'Secure Checkout' page with four steps: 1. Shipment/Pick Up Location, 2. Shipping Method, 3. Payment & Billing Address (highlighted with a red box), and 4. Final Review. Step 3 is further divided into 3.1 Payment and 3.2 Billing Address. A large red X is drawn over the 'Payment & Billing Address' section. A note says: 'In real time, we will be using different Payment Integration "WePay / CardConnect" ...'. The right screenshot shows a 'Buy Corn from Sunshine Farms for \$20.00' payment screen with fields for Name, Street address, Credit Card Number, City, State, Zip, MM/YY, CVV, and United States. A green box highlights the payment form with the note: 'This is WePay provided payment Screen.' Both screenshots show a 'Not secure' warning in the browser address bar.

**Note** = You should not store the Credit Card Info in “SAP Comm” system. If you store, then it's security compliance.

## **B2B Pricing =**

In case B2B, Pricing varies from: -

- Customer – Customer
- Region – Region
- Based on Volume

**Note** = There is another factor which impact the B2B Pricing (Pricing Option).

**Q** = What are the different pricing options?

- 1) Customer Specific Pricing
- 2) End User Pricing
- 3) Marketing Pricing
- 4) Contract Pricing
- 5) =====

That is why implementing Pricing in B2B is complex.

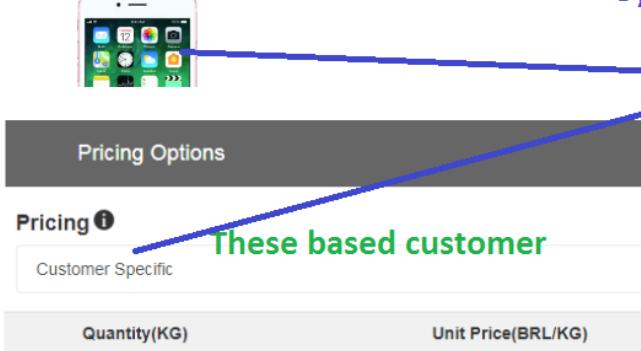
Hence, most of companies will go with Sync Integration for Pricing Impl. (or) Near real time Pricing Integration Impl.

Near Real Time – You can implement by using Kafka / .... Technology.

Kafka – Supports “Sub ... and ... Pub” mechanism.

In case of Near real time, we need to store the prices in “SAP Comm”.

You selected this item



Syn Pricing Impl.

```
<tns:PriceRequest  
  <tns:Language>en</tns:Language>  
  <tns:PriceDate>2017-11-14</tns:PriceDate>  
  <tns:Material>4024035</tns:Material>  
  <tns:Currency>EUR</tns:Currency>  
  <tns:Quantity>1</tns:Quantity>  
  <tns:SalesUnit>DR</tns:SalesUnit>  
  <tns:Customer>  
    <tns:ShipTo>82623</tns:ShipTo>  
    <tns:SalesOrg>A742</tns:SalesOrg>  
    <tns:DistChannel>10</tns:DistChannel>
```

In SAP  
we already  
have the Logic  
to find the  
Price

SAP

Note: - In case of Syn Pricing Impl. we no  
need to store price of the product in  
Hybris.

Note: - If SAP is down then we can't do anything.

```
<ns1:PriceResponse  
  <ns1:Pricing>  
  <ns1:Price>  
    <ns1:UnitPrice>85,49</ns1:UnitPrice>  
    <ns1:Currency>EUR</ns1:Currency>  
    <ns1:PriceUnit>KG</ns1:PriceUnit>  
    <ns1:QuantityScales>  
      <ns1:QuantityScale>  
        <ns1:QuantityFrom>0.001</ns1:QuantityFrom>
```

Note = SAP Comm also provides "Price Settings"

The screenshot shows the SAP Fiori interface. On the left, there is a navigation tree with a yellow box highlighting the 'Prices' section under 'Price Settings'. The 'Prices' section contains links for 'Product Price Classes', 'Customer Price Lists', 'Price Rows', 'Taxes', 'Discounts', and 'Delivery Costs'. Below this is a 'SAVED QUERIES' section with a message 'No queries'. On the right, there is a list of products with their corresponding prices:

Product	Product Price C
Home Theater System [CONF_HOME_THEATER_ML] - Electronics Product...	
Digital Camera Standard Metallic [CONF_CAMERA_SL-STD-METALLIC] ...	
Digital Camera Standard Black [CONF_CAMERA_SL-STD-BLACK] ...	
Digital Camera Professional Metallic [CONF_CAMERA_SL-PROF-METALLIC]...	
Digital Camera Professional Black [CONF_CAMERA_SL-PROF-BLACK] ...	
Digital Camera [CONF_CAMERA_SL] - Electronics Product Catalog : Online	
Digital Camera Standard Metallic [CONF_CAMERA_SL-STD-METALLIC] ...	

**Scenario = SAP Comm is delivered for us as a “ZIP File / Suite”.**

Local Disk (E:) > Softwares > Hybris-All > 2011 >	
Name	Date modified
 CXCOMM201100P_6-70005693	21-04-2021 17:55

SAP Comm = Is also called as “Platform”.

Whenever we say YYY is the platform.

Meaning is – By using YYY we can develop “End – End” solution.

That means – By using “SAP Comm” – We can develop “End – End” solution.

**Q =** Can we develop “End – End” solution by using “Java / .NET”?

**Q1 =** How to write the code?

**Ans =** Java / .NET provides to API to write the code.

**Q2 =** After writing the code – How to do the build?

For build purpose – We can use tools like “ANT / Maven / ...”.

Java / .NET will not provide any “ANT / Maven / ...”.

That's why – In case of Java / .NET project we separately download “ANT Tool / Maven Tool / ...” & attach / use it.

**Q3 =** After build – How to deploy the code into Server?

We generally deploy the code into “Tomcat / Web logic / ....”.

Java / .NET will not provide any Servers like “Tomcat / Web Logic ...”.

That's why – In case of Java / .NET project we separately download “Tomcat / JBoss / ...” & attach / use it.

**Q4** = After deploying – It requires some kind of Database?

Database = Oracle / MS SQL / HSQL / HANA / ...

Java / .NET **will not provide** any Databases.

That's why – In case of Java / .NET project we separately download “Oracle DB / MS SQL DB / ...” & attach / use it.

== That means - To develop a Site [End – End solution], what are the minimum things required?

- 1) For Coding Purpose = API \*Java / .NET / ...+
- 2) For Build Purpose = ANT / Maven / ...
- 3) For Deploy Purpose = Tomcat / JBoss / ...
- 4) For Database Purpose = Oracle / MS SQL / ....

**Note** = Java / .NET **provides only API**. That's why by using “Java / .NET” **we can't develop** “End – End” solution.

**Q** = Can we develop “End – End” solution with “SAP Comm”? = Yes.

**Q1** = How to write the code?

“SAP Comm” provides Exts for writing the code.

Java / .NET = We create project & write the code.

“SAP Comm” = We create Exts & write the code.

Java / .NET – Projects == “SAP Comm” – **Exts**

Local Disk (E:) > rrrssoftware > hybris > bin > modules > base-accelerator >		
Name	Date modified	Type
deprecated		Folder
yacceleratorbackoffice		Folder
yacceleratorcore		Folder
yacceleratorfacades		Folder
<b>Exts</b>		
yacceleratorfulfilmentprocess		Folder
yacceleratorinitialdata		Folder
yacceleratorstorefront		Folder
yacceleratortest		Folder
yaddon		Folder

**Q2 = After writing the code – How to do the build?**

For build purpose – We can use tools like “ANT / Maven / ...”.

“SAP Comm” by default comes with “**ANT Tool**” for build purpose.

**Q = Where can we see the “ANT” details?**

Local Disk (E:) > rrrssoftware > hybris > bin > platform >		
Name	Date modified	
.externalToolBuilders	02-11-2020 16:57	
.settings	02-11-2020 16:57	
apache-ant	02-11-2020 16:57	

**Q3 = After build – How to deploy the code into Server?**

We generally deploy the code into “Tomcat / Web logic / ....”.

“SAP Comm” by default comes with “**Hybris Server**” for deployment.

This “**Hybris Server**” is built on top of “Apache”.

**Q = Where can we see the “Hybris Server” details?**

Local Disk (E:) > rrrssoftware > hybris > bin > platform >		
Name	Date modified	Type
.externalToolBuilders	02-11-2020 16:57	File folder
hybrisserver	02-11-2020 16:12	Windows Batch File
hybrisserver.sh	02-11-2020 16:12	SH File
license	02-11-2020 16:12	Windows Batch File
license.sh	02-11-2020 16:12	SH File

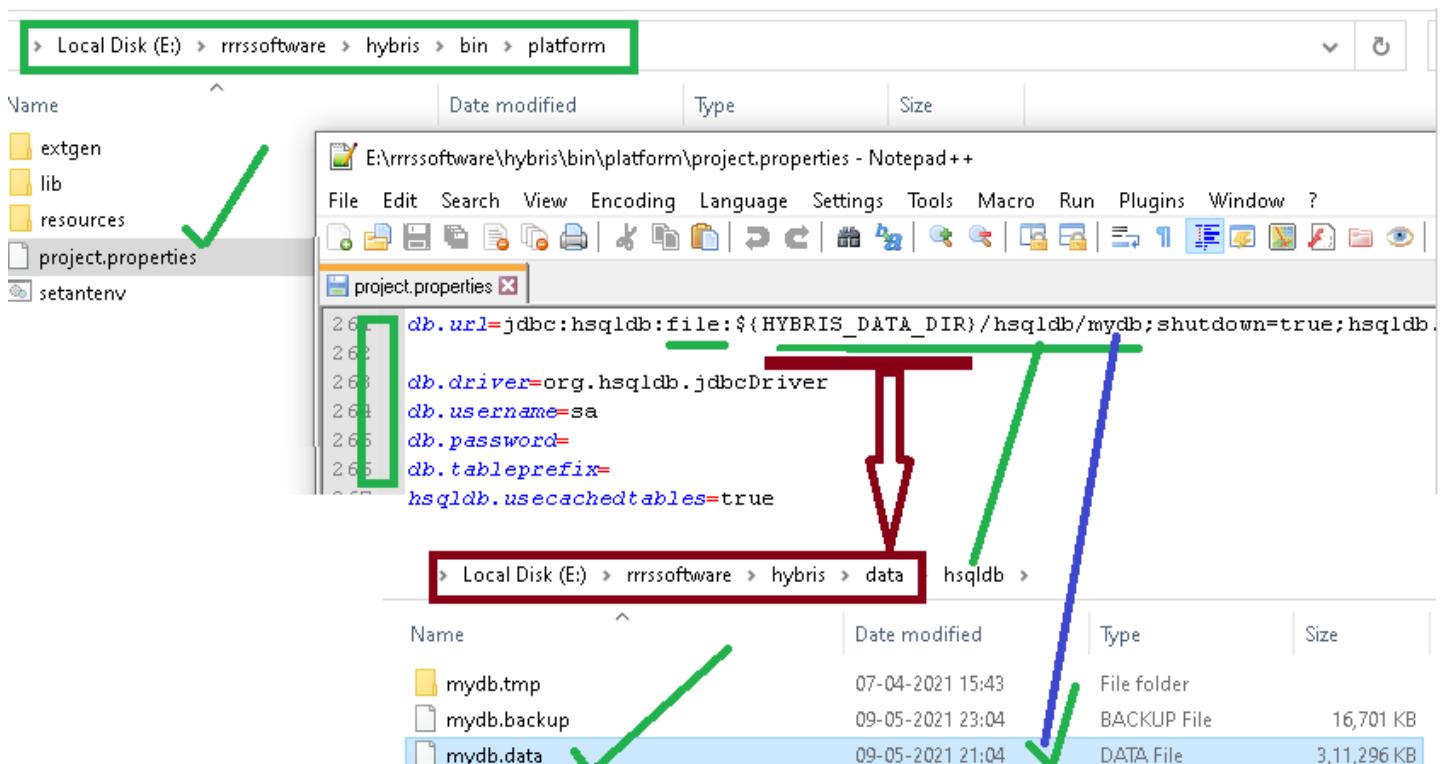
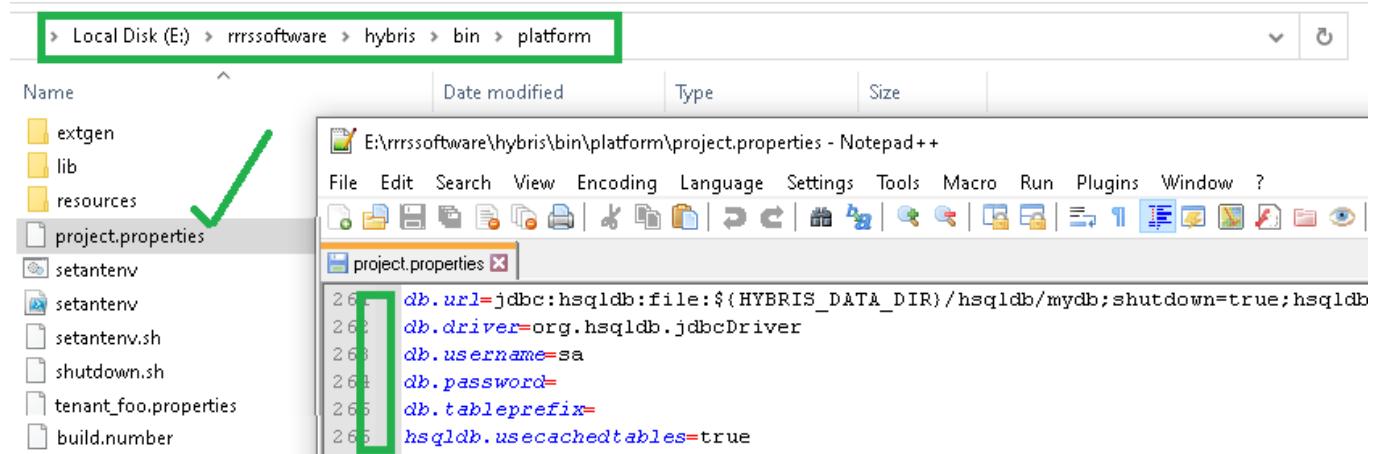
**Q4 = After deploy – It requires some kind of Database?**

Database = Oracle / MS SQL / HSQL / HANA / ...

“SAP Comm” by default comes with “**HSQL DB**”.

HSQLDB (HyperSQL DataBase) is the leading SQL relational database system written in Java. HSQLDB is completely free to use.

**Q = Where can we see the “HSQL DB” settings / details?**



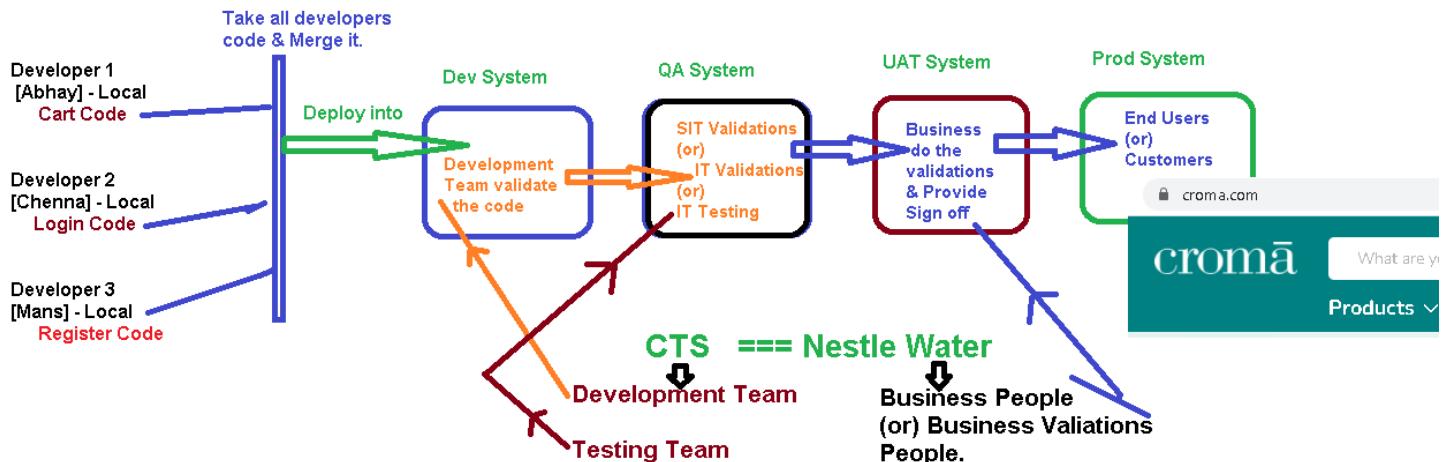
**In this file -- We have all the "SAP Comm" DB tables.  
Example = Cart ... Order ... User ... Product ...**

## Conclusion =

By using “SAP Comm” – We can write the code [Exts] ... We can do the build [ANT]... We can deploy into Server [Hybris Server] ... We can connect DB [HSQL DB] ...

===== By using “SAP Comm” – We can develop “End – End” solution.

Q = Explain Environments?



In case of Cloud – We will be having: -

Development

Staging

Production

**Note** = If we want extra then we can request /subscribe.