

# Business Process as a Service BPaaS Offer

Training Material



funded by EC in H2020

CloudSocket

# Description of Business Process as a Service

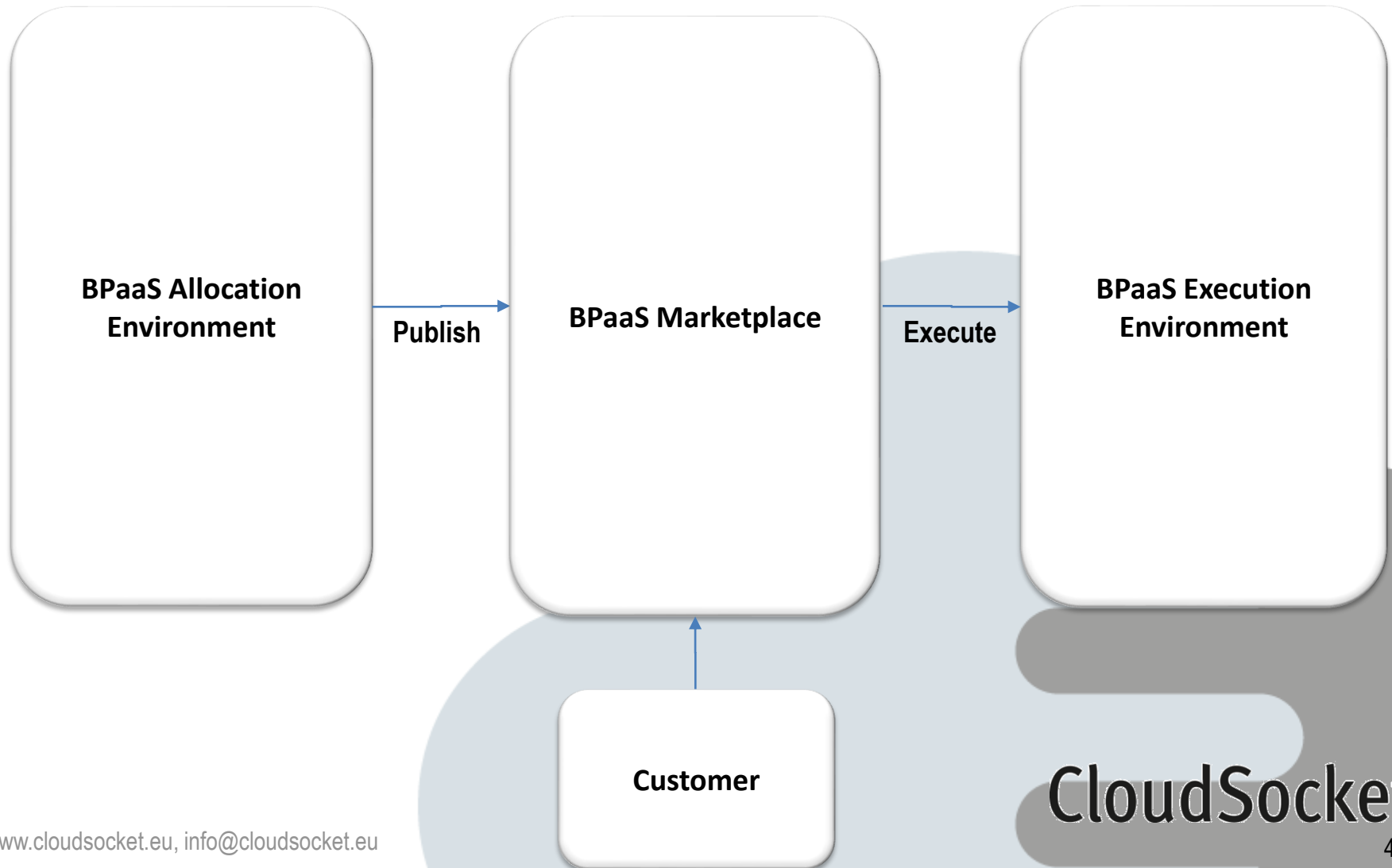


CloudSocket

CloudSocket needs a place to offer BPaaS products.

# MOTIVATION


# BPAAS MARKETPLACE



Tool Presentation

# MARKETPLACE

# BPAAS MARKETPLACE



SHOP

LOGINREQUEST BROKER ACCOUNTEnglish

0 ITEMS

Home / Processes

Status

All

Tease

Active

Tags

Apply FilterClear

Invoice Ninja


Price

Apply FilterClear

10473

## Processes

Showing 3 processes




### SEND INVOICE SAAS WORLDWIDE

The bundle provides the ability to create invoices based on customer data and the enterprise's needs. CRM service is hosted in Europe and Invoicing service is hosted in USA, both as SaaS.

€10.50

Add to cart




### SEND INVOICE SAAS EUROPE

The bundle provides the ability to create invoices based on customer data and the enterprise's needs. CRM service and Invoicing Service are hosted in Europe, both as SaaS.

€15.75

Add to cart



### SEND INVOICE IAAS EUROPE

The bundle provides the ability to create invoices based on customer data and the enterprise's needs. CRM service is hosted in Europe as SaaS and Invoicing Service is hosted in Europe as IaaS in a

€21.00

Add to cart

Showing 1–3 of 3 results

### SUPPORT

Ymens is the first cloud broker in Romania and a company dedicated to innovation. We aim to become the preferred cloud partner of any company or public institution.

**(+4) 0372 72.66.99**

office@ymens.ro

### INFORMATION

Questions?




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About us

### STAY IN TOUCH

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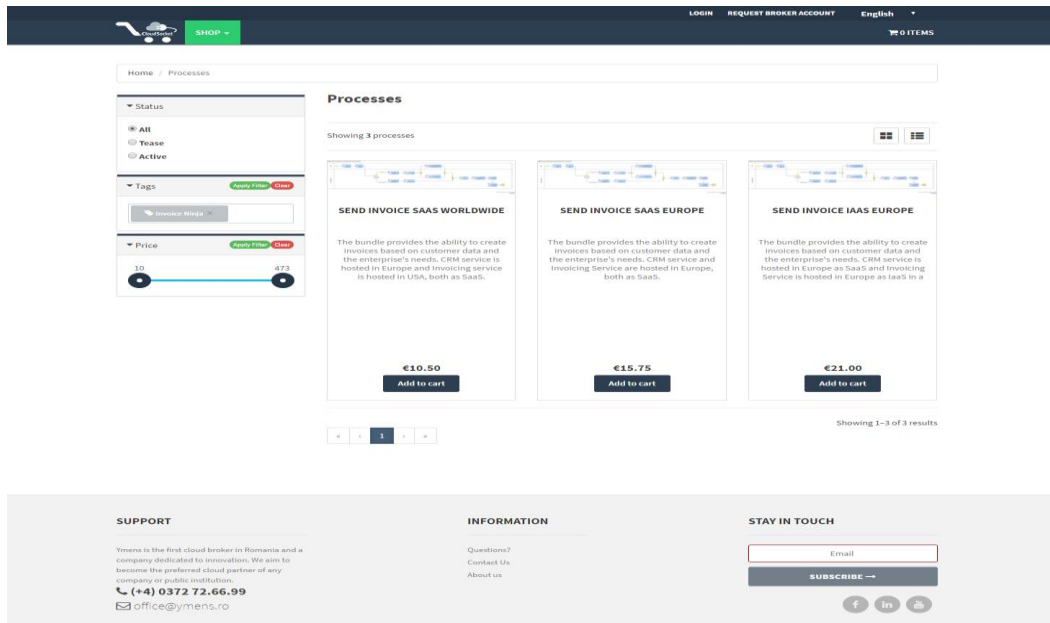
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# BPAAS MARKETPLACE

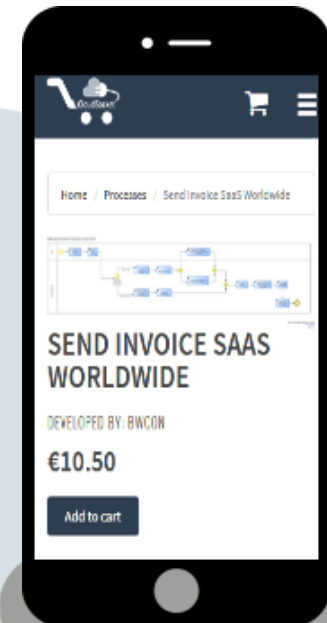
## Marketplace modules

- Registration
- Shopping
- Broker
- Administration
- Payment



Address:

<http://csmarket.ymens.com>



Mobile demo:

<https://youtu.be/dwAi7wTf47k>

# CloudSocket

# REGISTRATION MODULE

1. The Broker requests account



2. The Sistem Administrator approves broker request and creates the account

A screenshot of the CloudSocket Admin interface. The header is dark blue with a white CloudSocket logo, a 'SHOP' button, and an 'ADMIN' button. A breadcrumb trail shows 'Home / Backoffice'. Below the header, there is a section titled 'USERS REQUESTS'. Under this section is a table with the following data:

Date	Name	Email	Phone Number	Actions
Dec 22, 2016	Mathema Broker	andreeagovo@hotmail.com	0777777777	<span>✓</span> <span>✗</span>



# SHOPPING MODULE

The User can **search for BPaaS Bundles** either manually or use filtering:


- Status filter: **all, tease, active**
- Tags filter: using tags from the bundle description
- Price filter: by setting the price interval
- Business needs category filter

## Buying a bundle:

- Only Active bundles can be bought: **Add to cart**
- After this, the user goes to shopping cart and **Checkouts**
- Pays using Paypal or Bank order

Bundles with status Tease have an **I want it** button that facilitate starting a discussion with the broker

### Shopping cart

PROCESS	DETAILS	DISCOUNT	TOTAL
	Send Invoice PaaS (new)		
		0	€10.50
	bwcon		
	€10.50		

← Continue shopping

← BACK TO SHOPPING

Checkout →

Total (tax excl.)	€10.50
Total tax	€0.00
Total	€10.50

### Checkout

#### Payment method

☒ **PayPal** Checkout with Paypal

☐ Pay with bank order

☐ I have read and agree to the Terms & Conditions

Order →

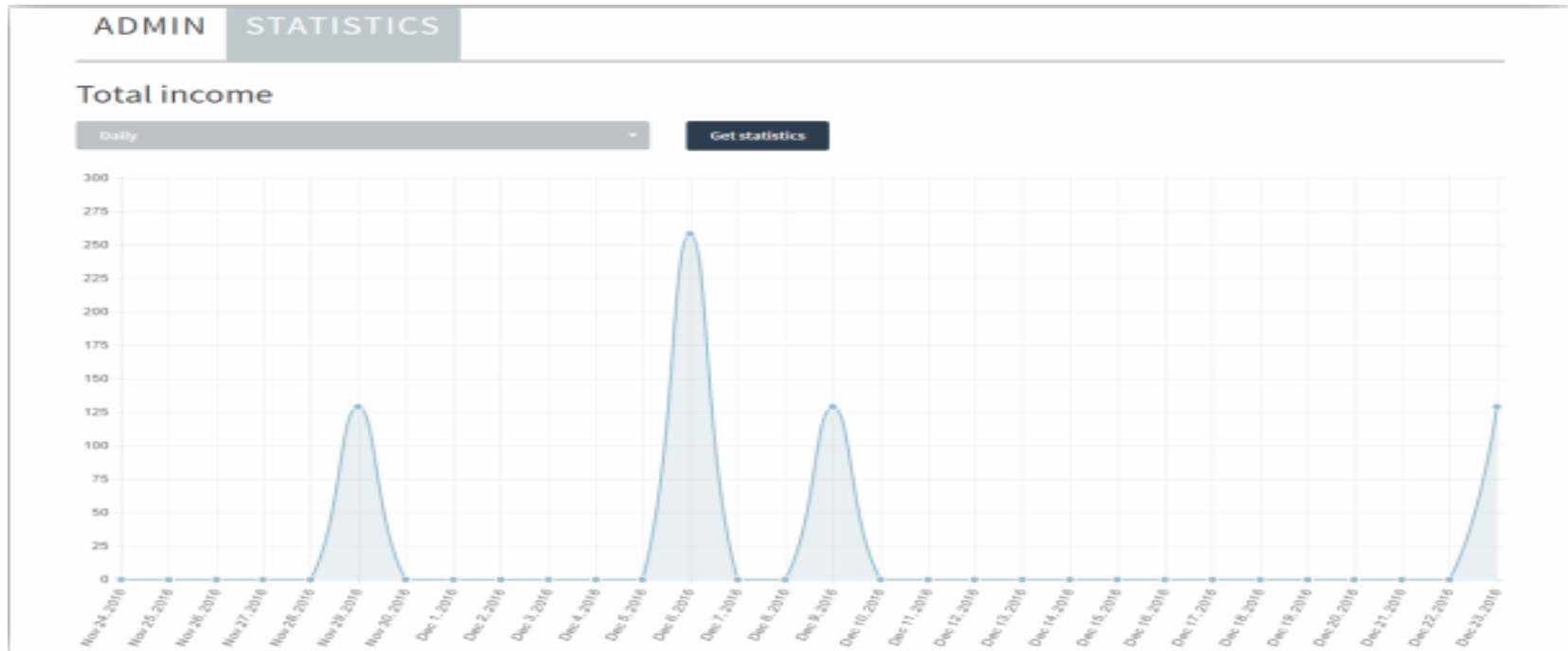
Total (tax excl.)	€10.50
Total tax	€0.00
Total	€10.50

Demo of user Susan Smidt buying a Send Invoice IaaS Europe bundle: <https://youtu.be/GeDKVHqXpbY>

# BROKER MODULE

The Broker administration has the following functionality:

1. View the list of products offered by their organizations in the Admin tab
2. View daily or monthly statistics for bought bundles
3. View the users belonging to their companies
4. View reports of the products sold between 2 dates
5. View the tools used by their managed companies



# ADMINISTRATION MODULE







The system administration module has the following functionality:

1. View the list of all users in the system – **Users** menu
2. Manage broker account requests – **Users Requests** menu
3. View all the orders made in the system and also statistics for the bundles sold – **Orders** menu
4. Register the bank order payments – **Payments** menu



Home / Backoffice

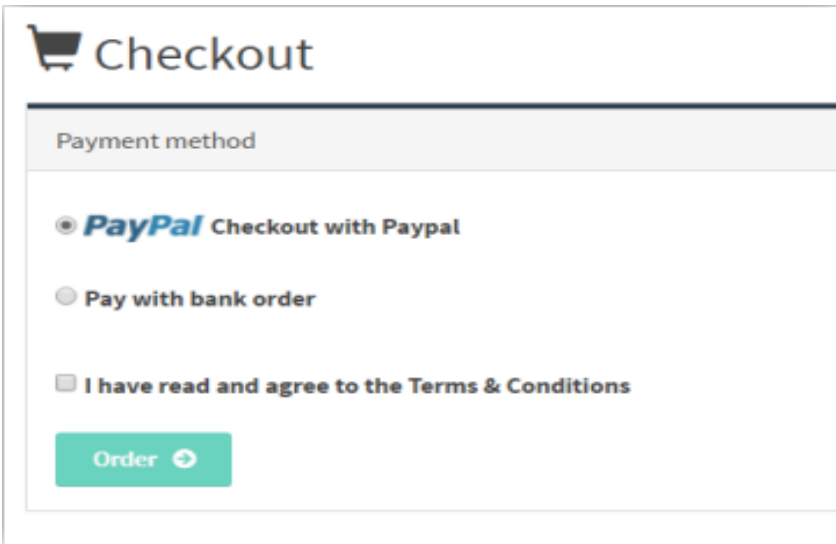
## USERS

Role ▾	Username	Name	Status ▾	Email	Phone number	Company ▾	Actions
Company User	CS.Rherrman	Robin Herrman	ACTIVE	robin.herrman.gold...	-	Golden Worm	 
Company User	juergen.jaehnert	Juergen Jaehnert	ACTIVE	juergen.jaehnert@b...	092312331	bwcon	 
Company User	MihaiP	Mihai Pavelescu	ACTIVE	constantin.tuguran@...	-	Ymens	 

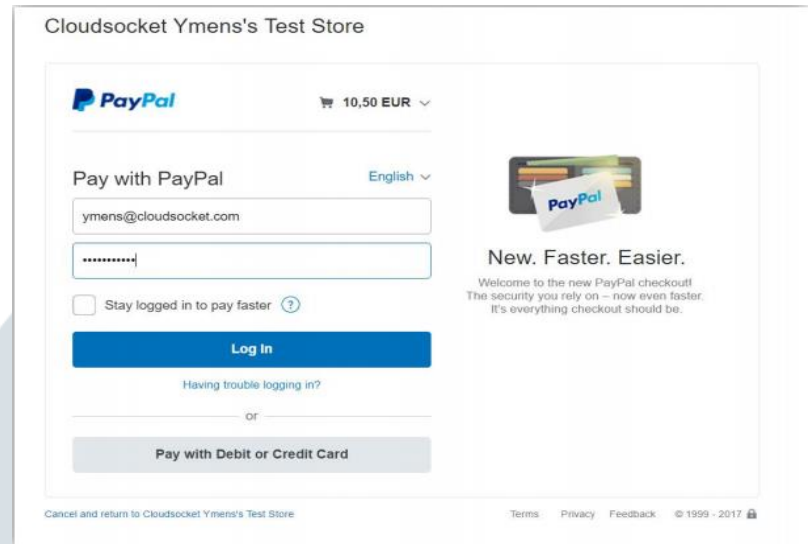
# PAYMENT MODULE

The Payment module supports:

1. Paypal – redirects to Paypal website where the user is prompted for credentials
2. Bank order – sends an email to the client with the invoice attached



The screenshot shows a 'Checkout' page with a shopping cart icon. Under the 'Payment method' section, there are two options: 'PayPal Checkout with Paypal' (selected with a radio button) and 'Pay with bank order' (unselected). Below these is a checkbox for 'I have read and agree to the Terms & Conditions'. At the bottom is a green 'Order' button with a right-pointing arrow.



The screenshot shows a PayPal login page for 'Cloudsocket Ymens's Test Store'. The total amount is 10,50 EUR. The page prompts the user to 'Pay with PayPal' and shows the email 'ymens@cloudsocket.com'. There is a password field with masked characters. A checkbox for 'Stay logged in to pay faster' is present. A blue 'Log In' button is shown, along with a link for 'Having trouble logging in?'. Below this is an 'or' separator and a grey button for 'Pay with Debit or Credit Card'. On the right, there is a PayPal logo and a message: 'New. Faster. Easier. Welcome to the new PayPal checkout! The security you rely on – now even faster. It's everything checkout should be.' At the bottom, there are links for 'Terms', 'Privacy', and 'Feedback', and a copyright notice '© 1999 - 2017'.

Present the concept behind Identity Provider.

# IDENTITY PROVIDER

# Identity Provisioning & Lifecycle Management

- ☑ Provisioning is the creation or updating of identities.
  - ☐ The purpose is to allow newly created identities to start using services or resources provided by the application and to ensure identity information is consistent across a range of distributed applications
  - ☐ Provisioning mostly concerns creating user accounts initially when the user first needs access to various applications.
  - ☐ Apart from that, it also deals with reconciliating existing user accounts from different sources and keeping user accounts up-to-date.
- ☑ Provisioning deals with the synchronization of identity information across different applications
- ☑ Federated Provisioning: Provisioning implemented within the context of a cross-organizational identity federation

# Access Management: Authentication & Authorization

## ☒ Authentication:

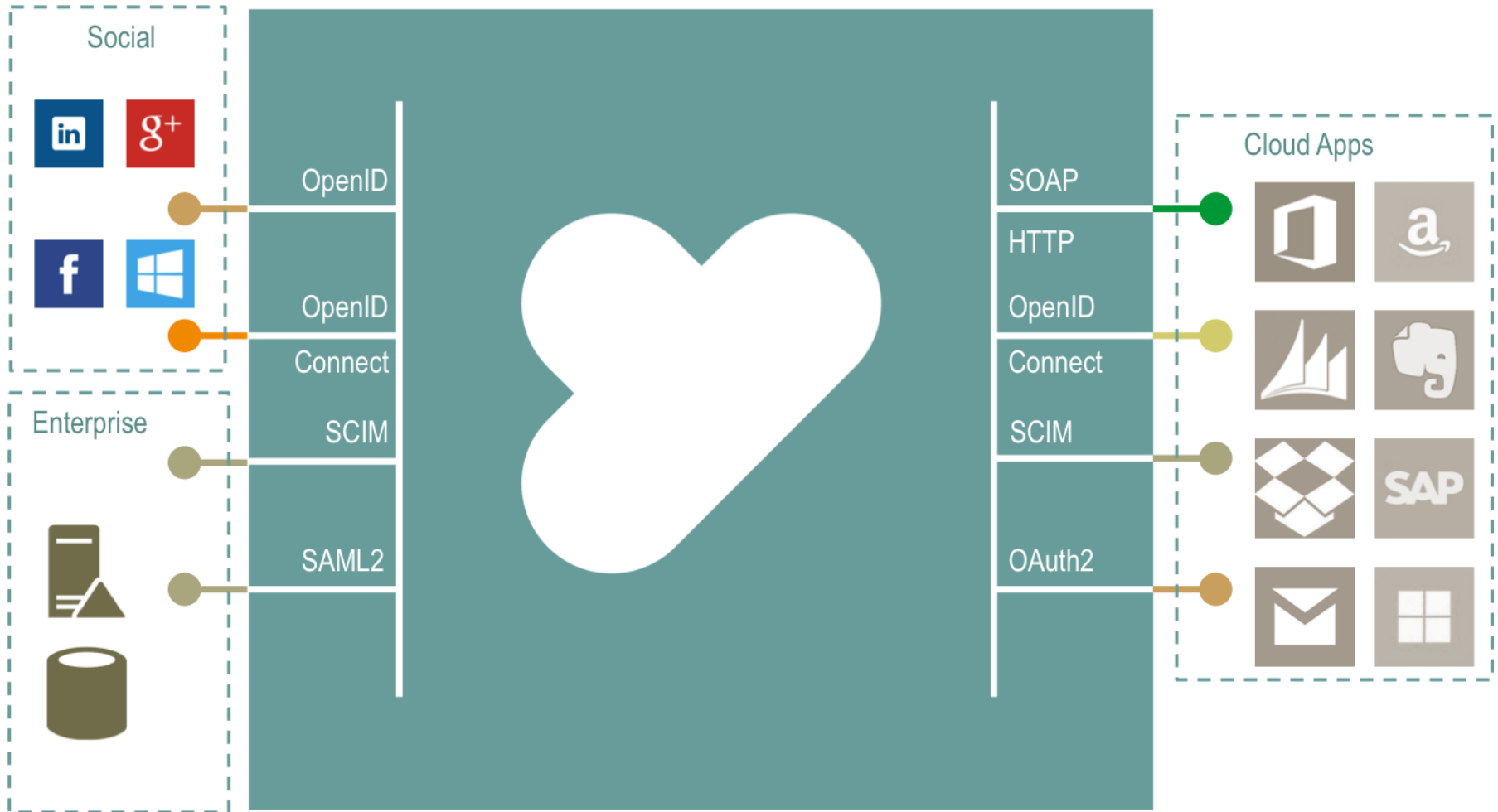
- ☐ Cross Domain Single Sign On
- ☐ Web SSO
- ☐ Social Login
- ☐ Federated SSO

## ☒ Authorization:

- ☐ Service Level (External Cloud Provider): Authorization of client (apps, systems) to access services
- ☐ User Level: Decoupled and specific for each module and/or external cloud service; typically role based access control (RBAC)

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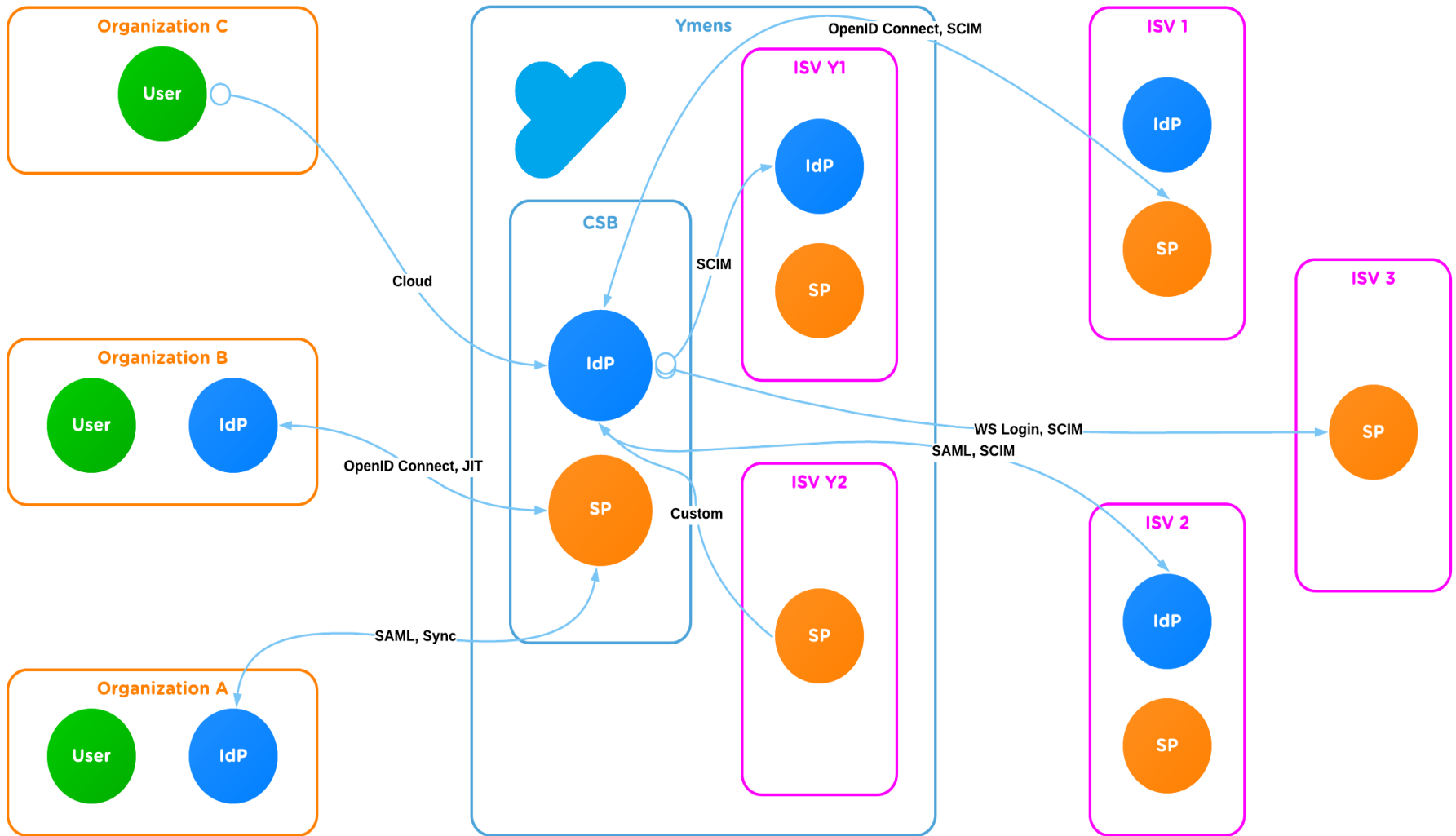
# Ymens IAM: Identity Broker



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# Ymens IAM: Cross Domain SSO



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# RELEVANT JARGON

## SAML 2.0

- Identity Provider
- Service Provider
- Attributes
- SP Metadata

## OAuth 2.0

- Auth Server
- Resource Server

## OpenID Connect 1.0

- OpenID Provider
- Relying Party
- User Claims
- Client Claims

- **Service Provider**: A web application that provides identity information via the SCIM protocol
- **Consumer**: An application that uses the SCIM protocol to manage identity data maintained by the Service Provider
- **Resource**: The Service Provider managed artifact containing one or more attributes; e.g., User or Group

SCIM

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# SCIM

- SCIM was initially created with cloud use cases in mind
- It turns out that a common language to move identities on-premises is really useful
- This is some of the first “real world” adoption of SCIM
- SaaS providers have started implementing SCIM for their identity APIs
  - Salesforce.com, Cisco Webex, etc...
- Clients call these APIs from an on-premises identity management system to manage identities

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# Use Cases: Trusted client applications

- ☑ Trusted clients include:

- ☐ Internal applications (running at the server side or client side)
- ☐ Mobile clients

- ☑ Mapping to OAuth 2.0

- ☐ Client credentials for access token (super user)
- ☐ Resource owner password credentials for access token (run as the “resource owner”)

# Use Cases: Third party applications

- ☒ Roll out web APIs to 3<sup>rd</sup> party applications
- ☒ OAuth 2.0 will be used as the Authorization mechanism
- ☒ Mapping to OAuth 2.0
  - ☐ Authorization code flow
  - ☐ Implicit grant flow

# CONCLUSION & QUESTIONS

# Conclusions

- ▶ These BPaaS bundles are ready to be purchased and run even by a non-technical customer
- ▶ Many types of BPaaS bundles offered in the Marketplace are tailored to customer needs starting from a core functionality.
- ▶ A BPaaS bundle once purchased can be run as many times as the customer wants
- ▶ Identity Provider module can be used in any project that needs SSO functionality

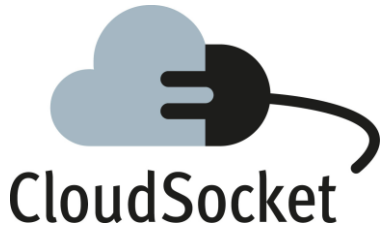
# QUESTIONS



CloudSocket



# Stay in Touch



[www.cloudsocket.eu](http://www.cloudsocket.eu)

[@CloudSocketProject](https://twitter.com/CloudSocketProject)

<https://www.youtube.com/channel/UC8qbCYS49FfG7S8j5AABpaA>

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