

Business Process as a Service BPaaS Offer

Training Material



funded by EC in H2020

CloudSocket

Description of Business Process as a Service

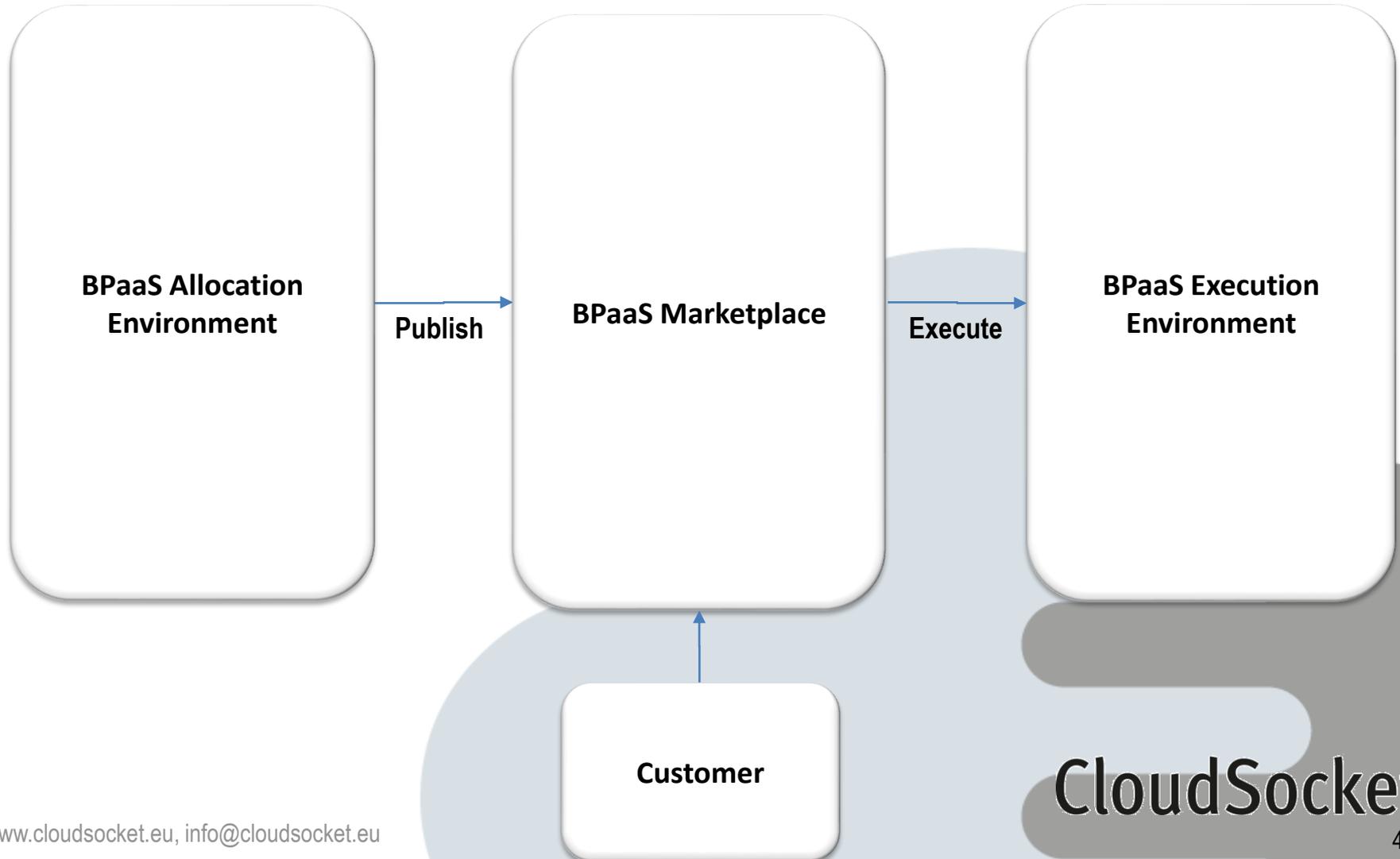


CloudSocket

CloudSocket needs a place to offer BPaaS products.

MOTIVATION

BPAAS MARKETPLACE



Tool Presentation

MARKETPLACE

BPAAS MARKETPLACE

Home / Processes

Processes

Showing 3 processes

Status

- All
- Tease
- Active

Tags Apply Filter Clear

Invoice Ninja

Price Apply Filter Clear

10 ————— 473

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.

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INFORMATION

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BPAAS MARKETPLACE

Marketplace modules

- Registration
- Shopping
- Broker
- Administration
- Payment

The screenshot displays the 'Processes' section of the marketplace. On the left, there are filters for Status (All, Toase, Active), Tags (Invoice Mngt), and Price (€10 to €77). The main area shows three process cards:

- SEND INVOICE SAAS WORLDWIDE**: Price €10.50, Add to cart.
- SEND INVOICE SAAS EUROPE**: Price €15.75, Add to cart.
- SEND INVOICE IAAS EUROPE**: Price €21.00, Add to cart.

Each card includes a description: '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.' The footer contains 'SUPPORT', 'INFORMATION', and 'STAY IN TOUCH' sections.

Address:

<http://csmarket.ymens.com>

The screenshot shows the mobile app interface for the 'SEND INVOICE SAAS WORLDWIDE' product. It features a navigation bar, a breadcrumb trail (Home / Processes / Send Invoice SaaS Worldwide), a process flow diagram, the product title, the developer 'DEVELOPED BY: BIWCON', the price '€10.50', and an 'Add to cart' button.

Mobile demo:

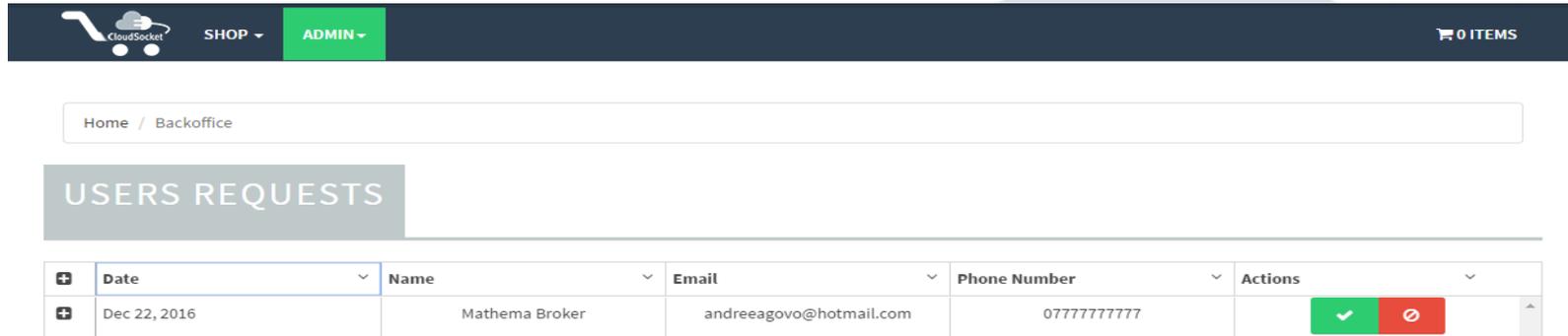
<https://youtu.be/dwAi7wTf47k>

REGISTRATION MODULE

1. The Broker requests account



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



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

The screenshot shows two parts of the user interface: the shopping cart and the checkout page.

Shopping cart: A table with columns for PROCESS, DETAILS, DISCOUNT, and TOTAL. It contains one item: "Send Invoice PaaS (new)" with a price of €10.50. A "Continue shopping" button is at the bottom left.

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

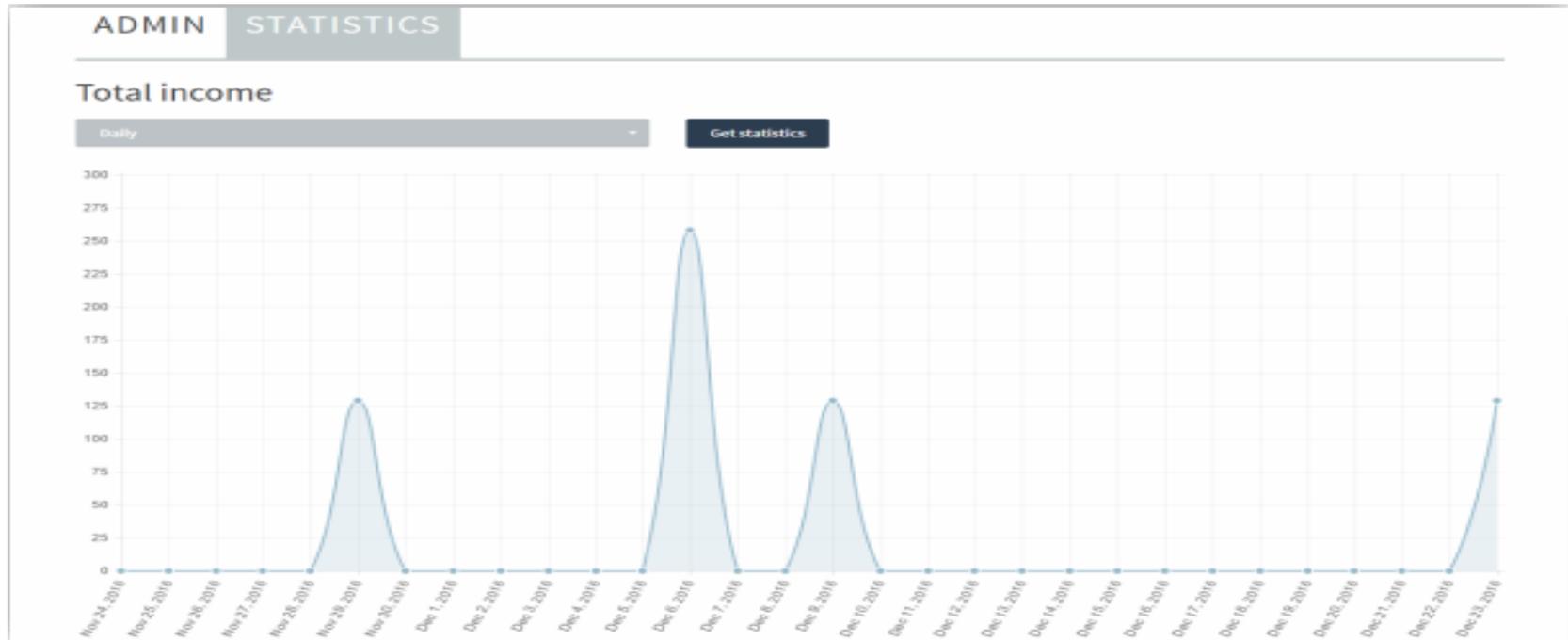
Checkout: A "Checkout" button is at the top. Below it, a summary shows: Total (tax excl.) €10.50, Total tax €0.00, and Total €10.50. The payment method section shows "PayPal Checkout with Paypal" selected, with an option for "Pay with bank order" and a checkbox for "I have read and agree to the Terms & Conditions". An "Order" button is at the bottom. A summary table on the right shows: Total (tax excl.) €10.50, Total tax €0.00, and 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

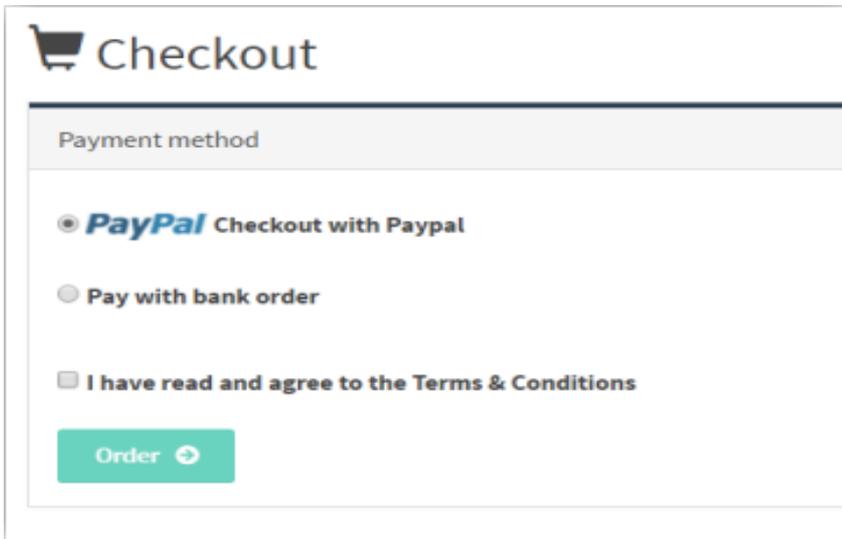
USERS

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	 

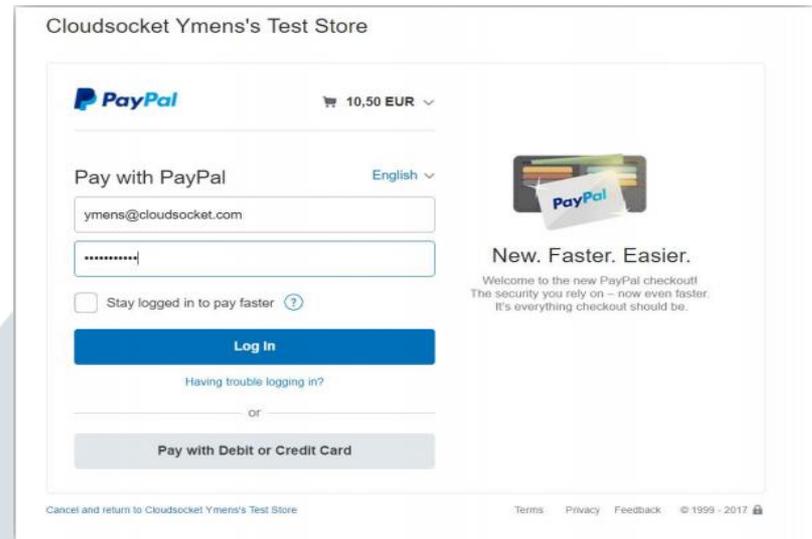
PAYMENT MODULE

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 and the word "Checkout". Below this is a section titled "Payment method" with two radio button options: "PayPal Checkout with Paypal" (selected) and "Pay with bank order". There is also a checkbox for "I have read and agree to the Terms & Conditions" and a green "Order" button with a right-pointing arrow.



The screenshot shows a PayPal login page for "Cloudsocket Ymens's Test Store". The page displays the PayPal logo, a shopping cart icon with "10,50 EUR", and the text "Pay with PayPal" with a language dropdown set to "English". There are input fields for the email address "ymens@cloudsocket.com" and a password field. A checkbox for "Stay logged in to pay faster" is present. A blue "Log In" button is prominent, 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 graphic of a smartphone with a PayPal card and the text "New. Faster. Easier." followed by a welcome message. At the bottom, there are links for "Cancel and return to Cloudsocket Ymens's Test Store", "Terms", "Privacy", "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 reconciling 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

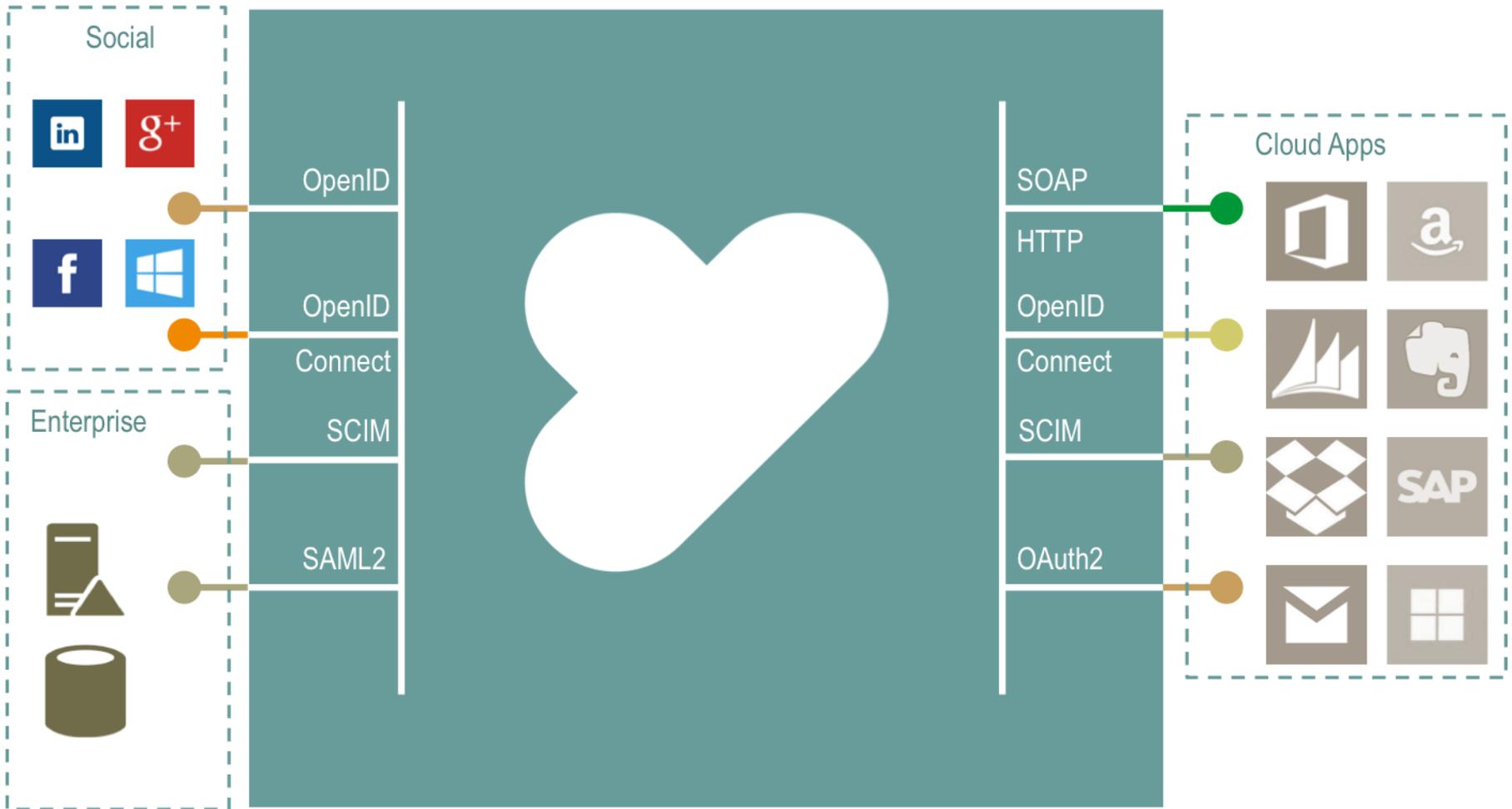
Authentication:

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

Authorization:

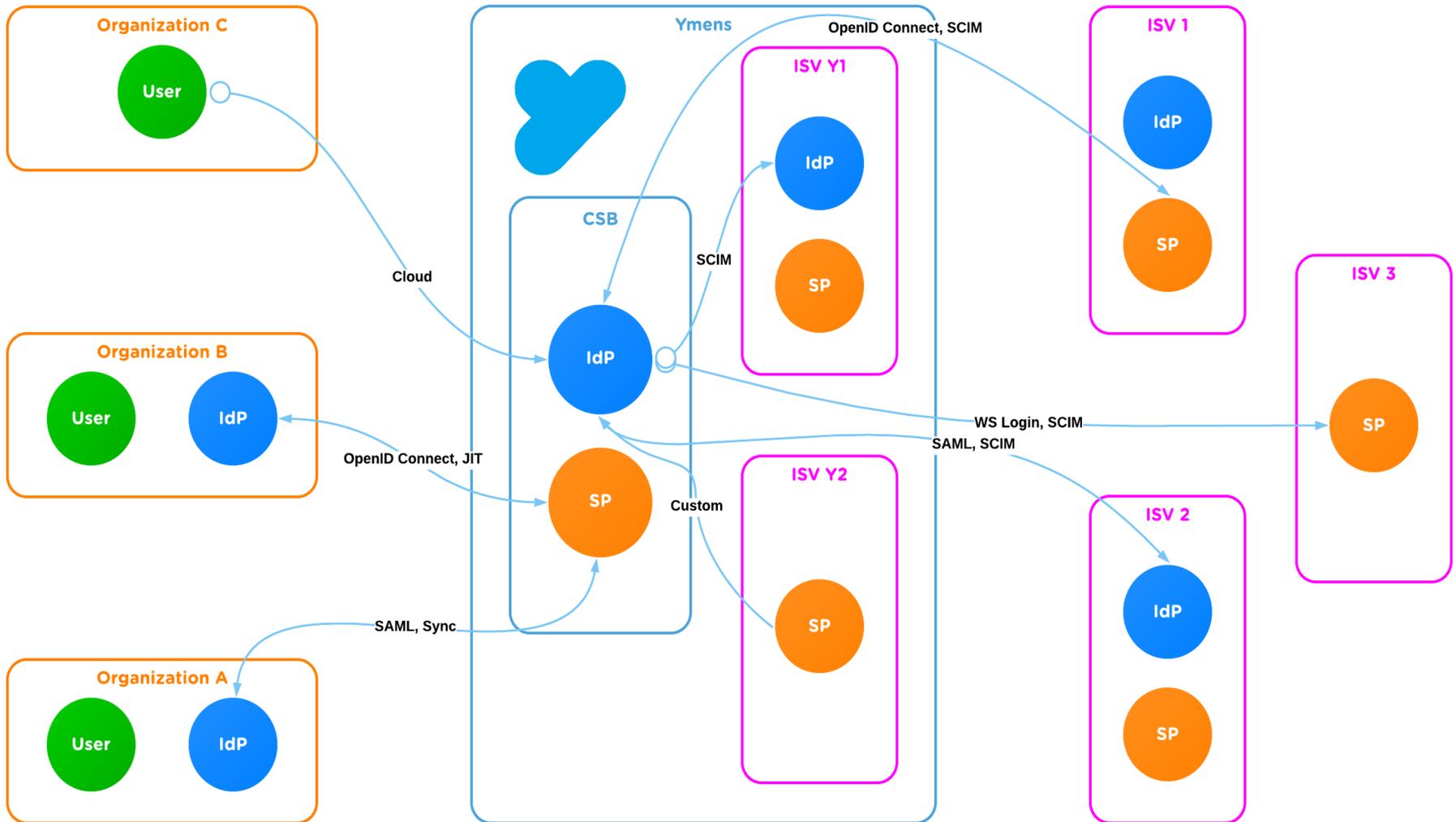
- Service Level (External Cloud Provider): Authorization of client (apps, systems) to access services
- User Level: Decoupled and specific for each module and/or external cloud service; typically role based access control (RBAC)

Ymens IAM: Identity Broker



CloudSocket

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 3rd 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

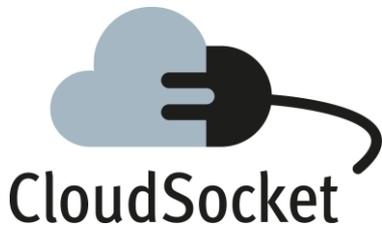
- ▶ These BPaaS bundles are ready to be purchased and run even by a non-technical customer
- ▶ Many types of BPaaS bundles offered in the Marketplace are tailored to customer needs starting from a core functionality.
- ▶ A BPaaS bundle once purchased can be run as many times as the customer wants
- ▶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

QUESTIONS



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www.cloudsocket.eu

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

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

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