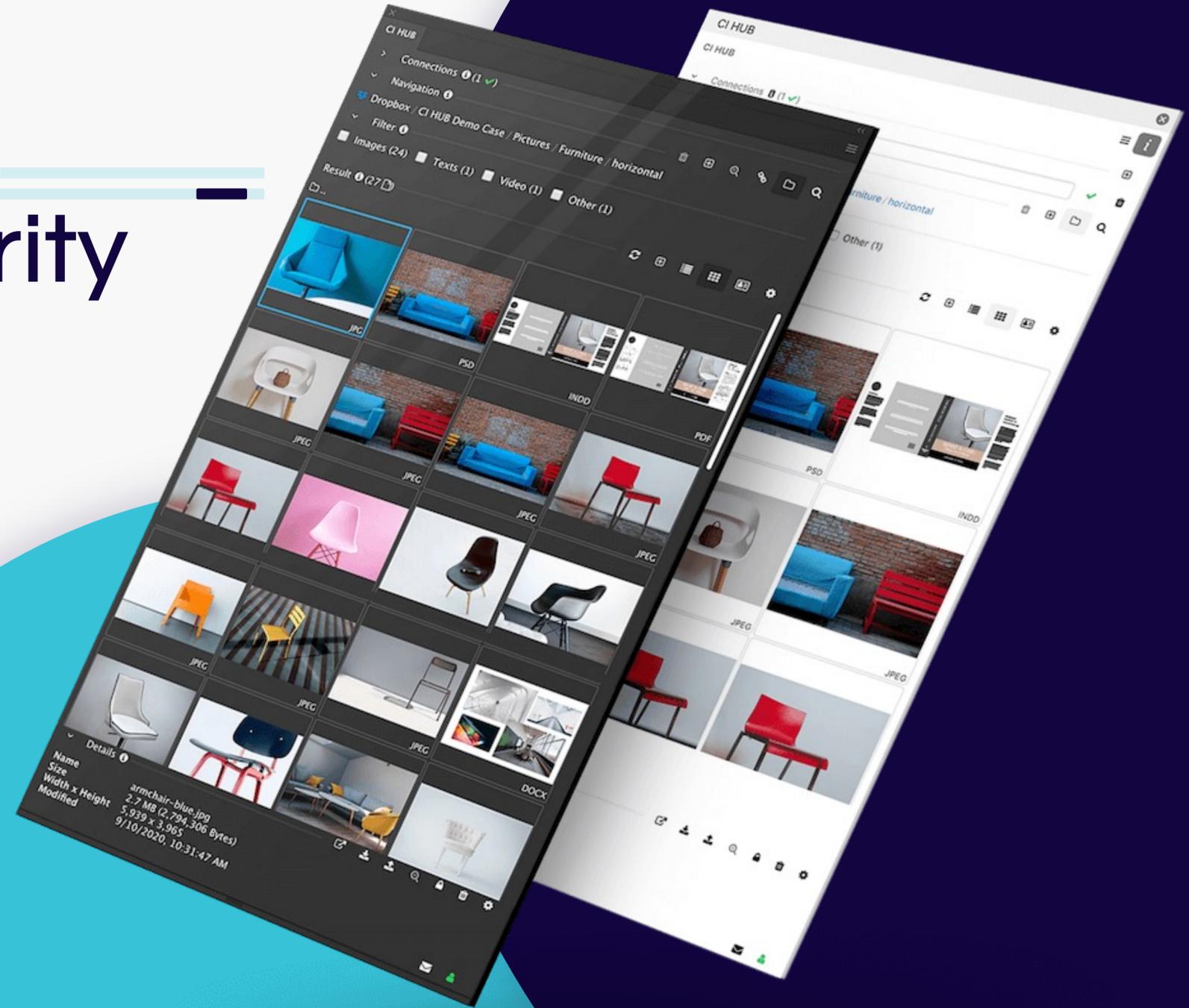




Advanced Setup & Security Information's (General Technical Information)

Creativity | Teamwork | Standardization

www.ci-hub.com



Document Version and History

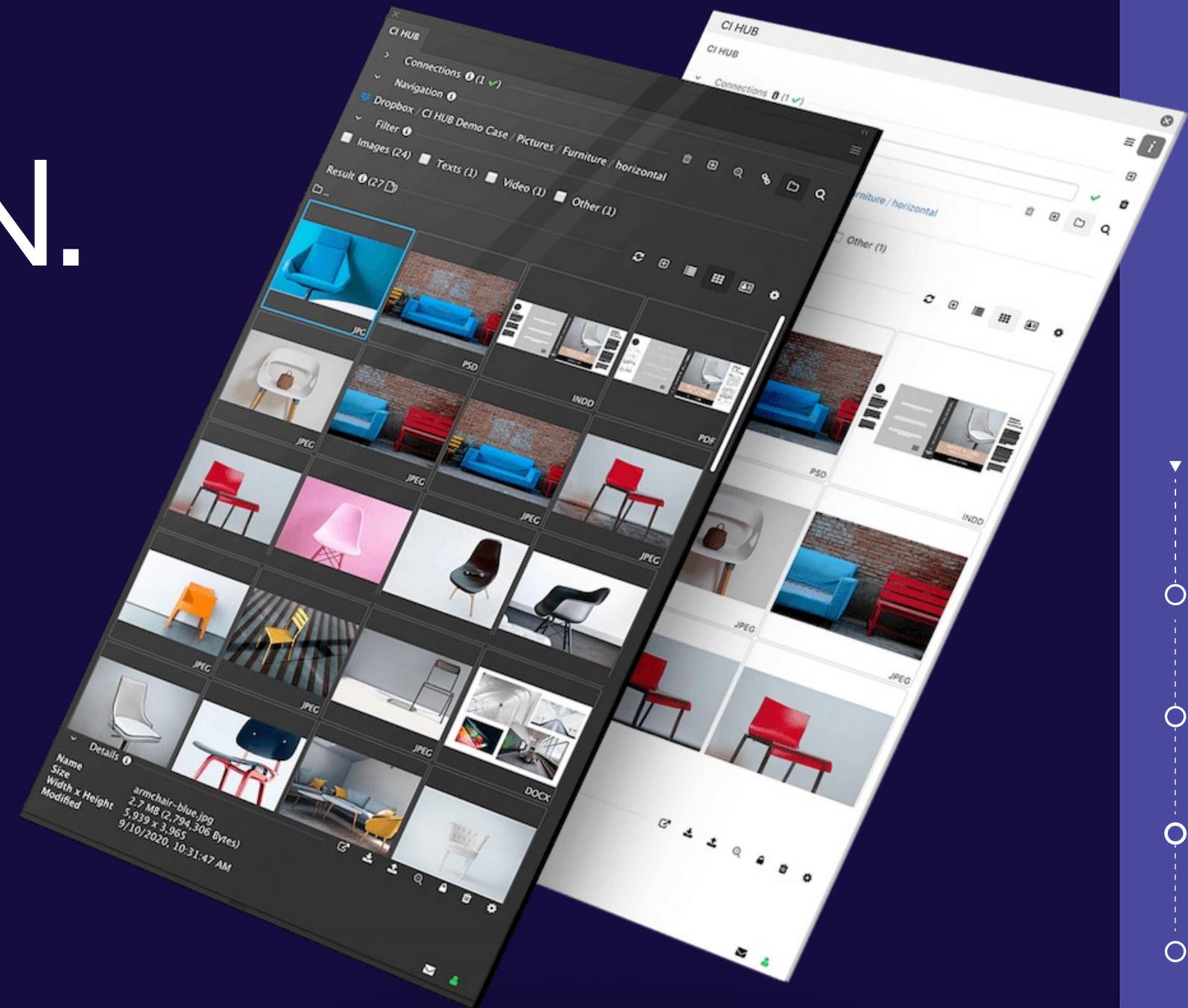
Change/Info	Editor	Date	Version	info
Updated the info for OnPremise and Multi-SaaS Setups	Andreas Michalski	20. Sep. 2023	1.2	
Updated the server URLs and IP addresses on the Firewall page & formatting	Salim Melliti	21. Sep. 2023	1.3	
Updated the Hubspot Server Location to GERMANY Added the new domains, subdomains, the new server IP addresses, and the Transactional E-Mails server to the Firewall page Updated the OAuth Redirect URLs Updated data stored by Keylight	Salim Melliti	03. Mai 2024	1.4	



INTRODUCTION.

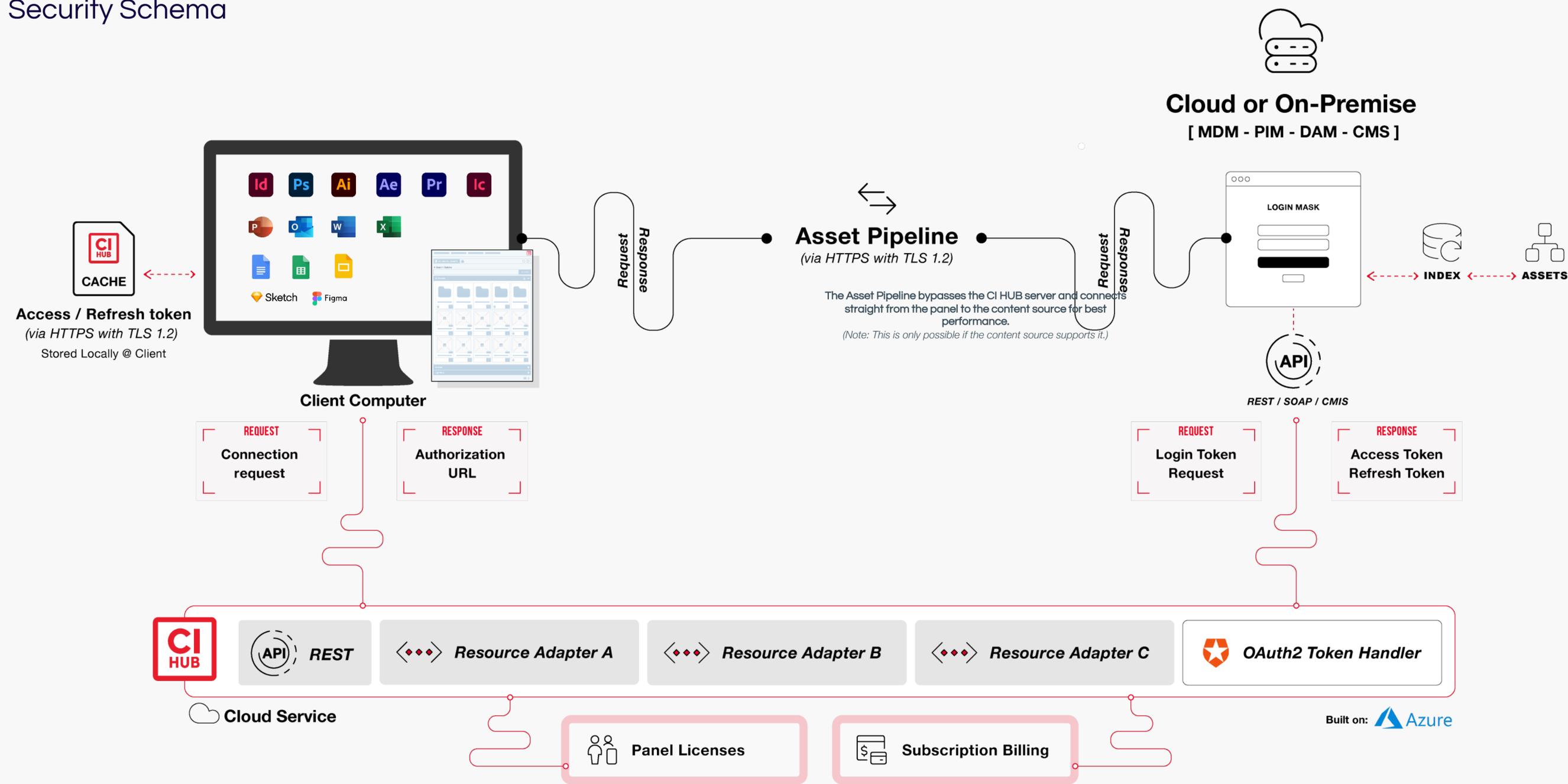
All data transfer takes place via HTTPS with TLS 1.2. There are two variants how data is transferred between CI HUB Client and Integration API:

1. Directly from CI HUB Client to Partner API. This is the case when large amounts of data need to be transferred, for example when an asset is downloaded or uploaded.
2. From the CI HUB Client via the CI HUB Server to the Partner API. This path is used to perform certain environment-dependent actions or to access secret keys stored in the server. To ensure that these keys & secrets are stored securely, they are stored in an area of our Azure server where no one except CI HUB admins have access. There is no route or similar access mechanism to get this information.



DATA POINTER

Security Schema



DATA POINTER

Security Schema

An example of this is our generic login mechanism: As soon as a user wants to login to an integrated system via CI HUB to create a connection in the CI HUB Connector, the following steps are performed:

1. The CI HUB client requests a connection for a third-party system from the CI HUB server.
2. The server creates an authorization URL for the Integration system.
3. This authorization URL is passed on to the client so that it can log in to the Integration system within a browser window.
4. Upon successful login in the integration login mask, the Integration system sends a code to the CI HUB server, which exchanges the code for an Access Token and a Refresh Token.



FOR ADOBE PRODUCTS, WE STORE THE ACCESS / REFRESH TOKEN IN A SETTINGS FILE IN A LOCAL USER DIRECTORY, ONLY THE USER HAS ACCESS TO THIS.

Windows: C:\Users\\AppData\Roaming\CI-Hub

Mac: Mac HD/User/<username>/Library/ApplicationSupport/CI-Hub/

DATA POINTER

Security Schema

In all other products:

Here we store access/refresh token in the **"localStorage"** of the browser in which CI HUB is running. This storage is linked to the origin of the azure system of CI HUB. Other web applications have no access to this information because it can only be used by the CI HUB application via the current user. Since no information is stored on our server that can be queried, we consider both options to be secure.

With both options above there is the possibility to delete a connection. This will delete the local entries again. A security conscious user can delete the connection after use.

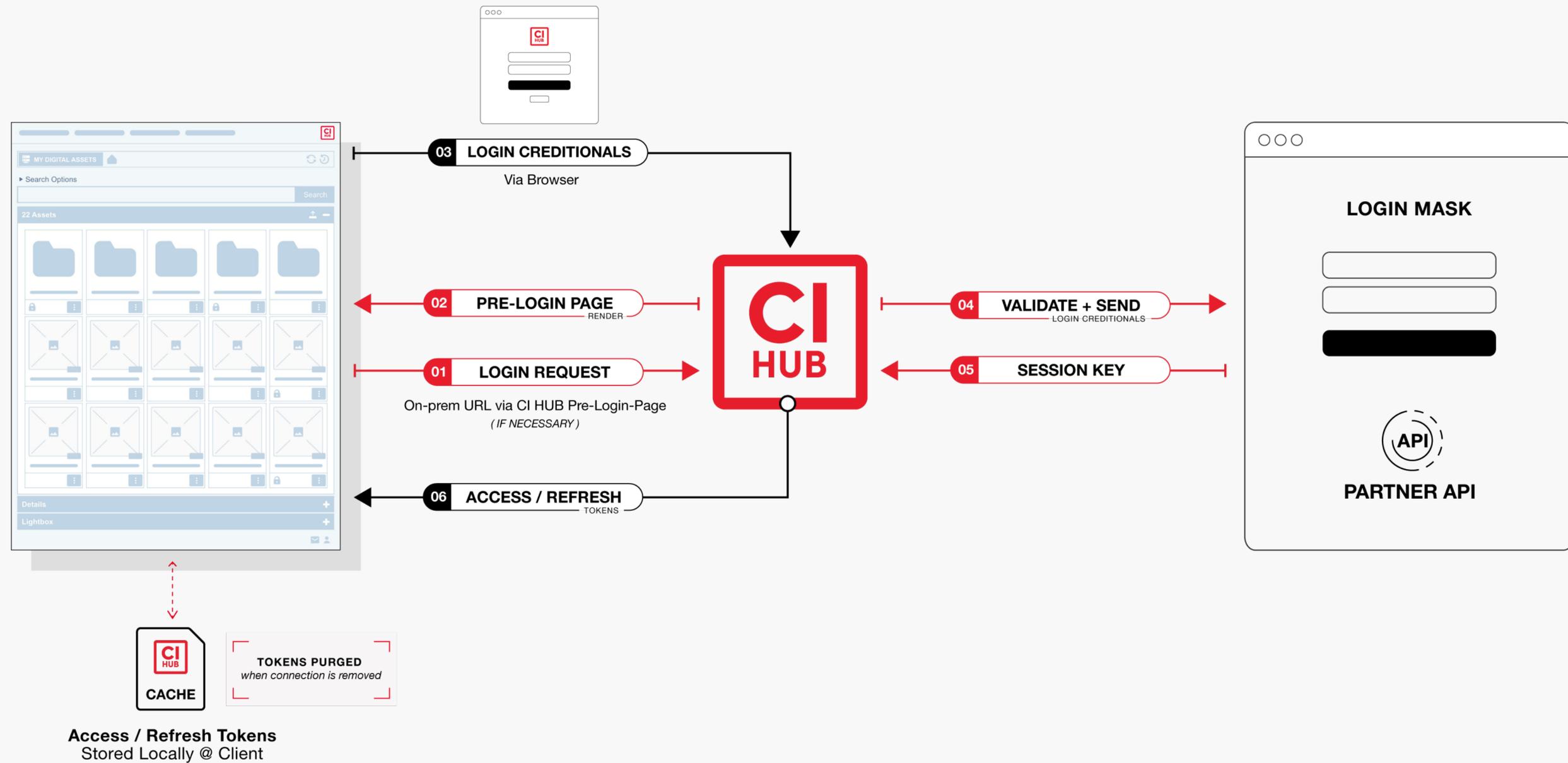
With the Load / Save Connections feature, we store connection data with a password and a symmetric AES-256 crypto algorithm encrypted in Okta. This can be loaded and decrypted with the password. The data leaves the panel only encrypted. There is only one encrypted string in Okta. This mechanism is used only if the user uses the Load / Save Connections feature.

For more Information about oAuth2, see <https://datatracker.ietf.org/doc/html/rfc6749>.

For more information about AES256 encryption, see <https://www.atpinc.com/blog/what-is-aes-256-encryption>

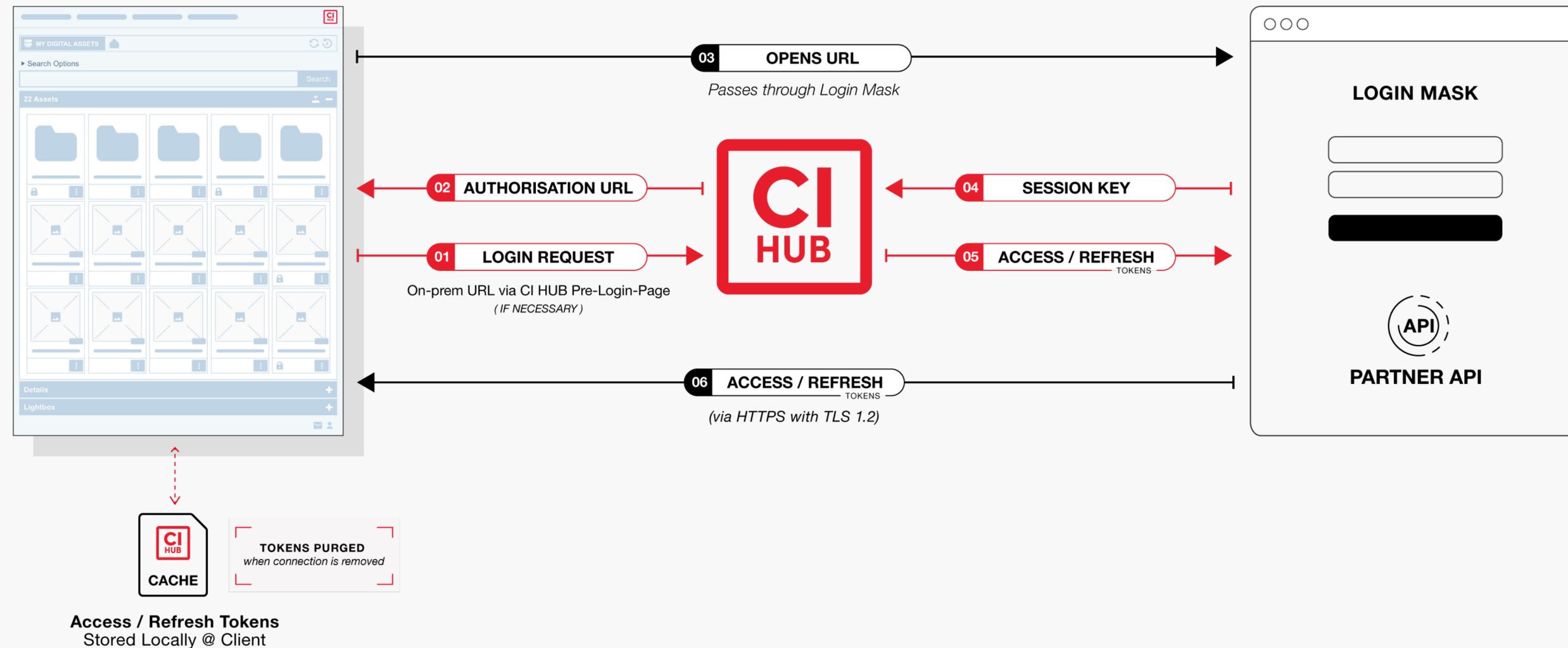
DATA POINTER

Security Schema | Basic



DATA POINTER

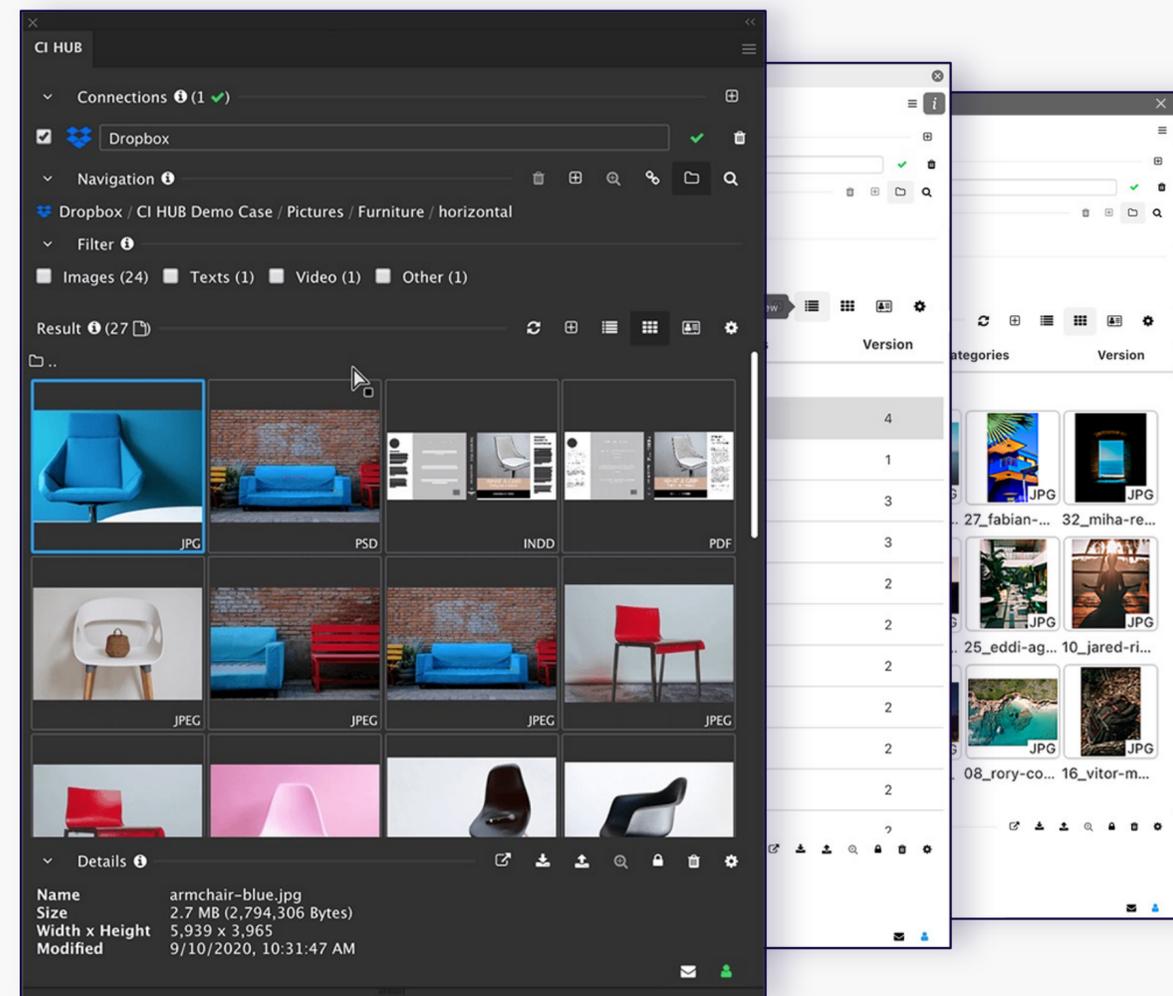
Security Schema | OAuth2



DATA POINTER

Security Schema

1. Neither CI HUB panel nor CI HUB server save any assets at any given time
2. Data access happens purely via content source API
3. Data access permissions apply for connected users as configured in content source system and made available via the API
4. Data transfer (uploads and downloads) takes place between client computer and content source data repository*
5. CI HUB server provides a stateless service to the CI HUB panel and acts only on requests triggered by a user on the client side
6. CI HUB server only maps client requests, as submitted from the CI HUB panel to the content source's specific API resources and vice versa
7. Any communication between CI HUB panel and CI HUB server as well as between CI HUB server and content source takes place on secured network connections (https)*



FIREWALL

Requirements for Firewalls and Ports

COMMUNICATION: HTTP and HTTPS “standard” Ports

DOMAIN & SUBDOMAINS TO INCLUDE:

ci-hub.com	ci-hub.azurewebsites.net	live.ci-hub.com	api.ci-hub.com
ci-hub.net	ci-hub-test.azurewebsites.net	stage.ci-hub.com	app.ci-hub.com
ci-hub.io	ci-hub-beta.azurewebsites.net	dev.ci-hub.com	admin.ci-hub.com

If wildcard whitelisting is possible, add:

*.ci-hub.com

*.ci-hub.net

CI HUB SERVER USES FOLLOWING OUTBOUND IP ADDRESSES: (Your Inbound)

104.40.158.55	23.97.174.44	104.40.211.253	20.101.152.141
104.46.42.104	23.97.177.139	137.117.175.38	20.76.7.76
23.101.67.154	104.40.213.244	20.73.114.74	20.109.202.102
			20.212.132.38

TRANSACTIONAL E-MAIL SERVER IP:

Please whitelist this IP on your E-Mail Server to ensure the delivery of critical E-Mails (Invoices & Account Management)

143.244.87.193



GENERAL OnPremise

Information

For Systems that are not supporting a „true“ SaaS Solution or that are run in an OnPremise Environment there are some configurations needed.

HERE WE PROVIDE THE GENERAL OVERVIEW:

To setup these Systems you need to talk to your System Vendor or your System Partner. They can Provide all necessary information.

To setup these Systems you need to order the CI HUB OnPrem/MultiSaas Installation.

Please email: sales@ci-hub.com.

PLEASE PROVIDE US WITH:

The URL to the System: in the form „subdomain.domain.tld“ (e.g. <https://fotoweb.company.com> or <https://myCompany.com>)

Your Client Key: „string“

You client Secret: „string“

Note: *Please send these details to support@ci-hub.com and include the Order + Payment information that you have received from our CI HUB Sales Team.*

GENERAL OnPremise & OAuth

Information

In addition, we will provide a set of redirect URLs that need to be configured in your OAuth settings.

These are maybe System specific.

- A. How and where to setup these, please refer to your System Provider or Partner.
- B. The URLs will be as follows. The URLs are System Specific.

GENERAL SCHEME:

[https://ci-hub.azurewebsites.net/api/v1/auth/login/"SYSTEM"](https://ci-hub.azurewebsites.net/api/v1/auth/login/)

[https://ci-hub-beta.azurewebsites.net/api/v1/auth/login/"SYSTEM"](https://ci-hub-beta.azurewebsites.net/api/v1/auth/login/)

[https://ci-hub-test.azurewebsites.net/api/v1/auth/login/"SYSTEM"](https://ci-hub-test.azurewebsites.net/api/v1/auth/login/)

[http://localhost:8080/api/v1/auth/login/"SYSTEM"](http://localhost:8080/api/v1/auth/login/)

[https://live.ci-hub.com/api/v1/auth/login/"SYSTEM"](https://live.ci-hub.com/api/v1/auth/login/)

[https://stage.ci-hub.com/api/v1/auth/login/"SYSTEM"](https://stage.ci-hub.com/api/v1/auth/login/)

[https://dev.ci-hub.com/api/v1/auth/login/"SYSTEM"](https://dev.ci-hub.com/api/v1/auth/login/)

[https://ci-hub.net/api/v1/auth/login/"SYSTEM"](https://ci-hub.net/api/v1/auth/login/)

[https://api.ci-hub.com/auth/login/"SYSTEM"](https://api.ci-hub.com/auth/login/)

SPECIFIC OnPremise & OAuth

Information for FOTOWARE

Example OAuth Redirect Settings for Fotoware:

<https://ci-hub.azurewebsites.net/api/v1/auth/login/fotoware>

<https://ci-hub-beta.azurewebsites.net/api/v1/auth/login/fotoware>

<https://ci-hub-test.azurewebsites.net/api/v1/auth/login/fotoware>

<http://localhost:8080/api/v1/auth/login/fotoware>

<https://live.ci-hub.com/api/v1/auth/login/fotoware>

<https://stage.ci-hub.com/api/v1/auth/login/fotoware>

<https://dev.ci-hub.com/api/v1/auth/login/fotoware>

<https://ci-hub.net/api/v1/auth/login/fotoware>

<https://api.ci-hub.com/auth/login/fotoware>

FAQ

Frequently Asked Questions

Q: Which cloud platform or hosting provider is the application operated?

A: Currently we use Microsoft Azure Services. CI HUB is built in a way to support multiple Providers. User can choose between Azure, Amazon AWS or Custom Providers.

Q: Which certificates does the SaaS provider or platform providers have? For example: ISO Certificate 27001

A: Information about the Compliance provided by Microsoft can be found at: <https://learn.microsoft.com/en-us/compliance/regulatory/offering-home>

Q: Are all data transmitted between end users and providers encrypted?

A: CI HUB uses an HTTPS protocol for transferring data. If the Integration used by the User is supporting these options depends on the possibilities offered by the Integration. *Please contact the respective integration software provider.*

FAQ

Frequently Asked Questions

Q: In which countries / regions are data held?

A: No data is kept

Q: Which authentication options does the provider support? Which of the following possibilities for data interfaces to other systems are offered if needed?

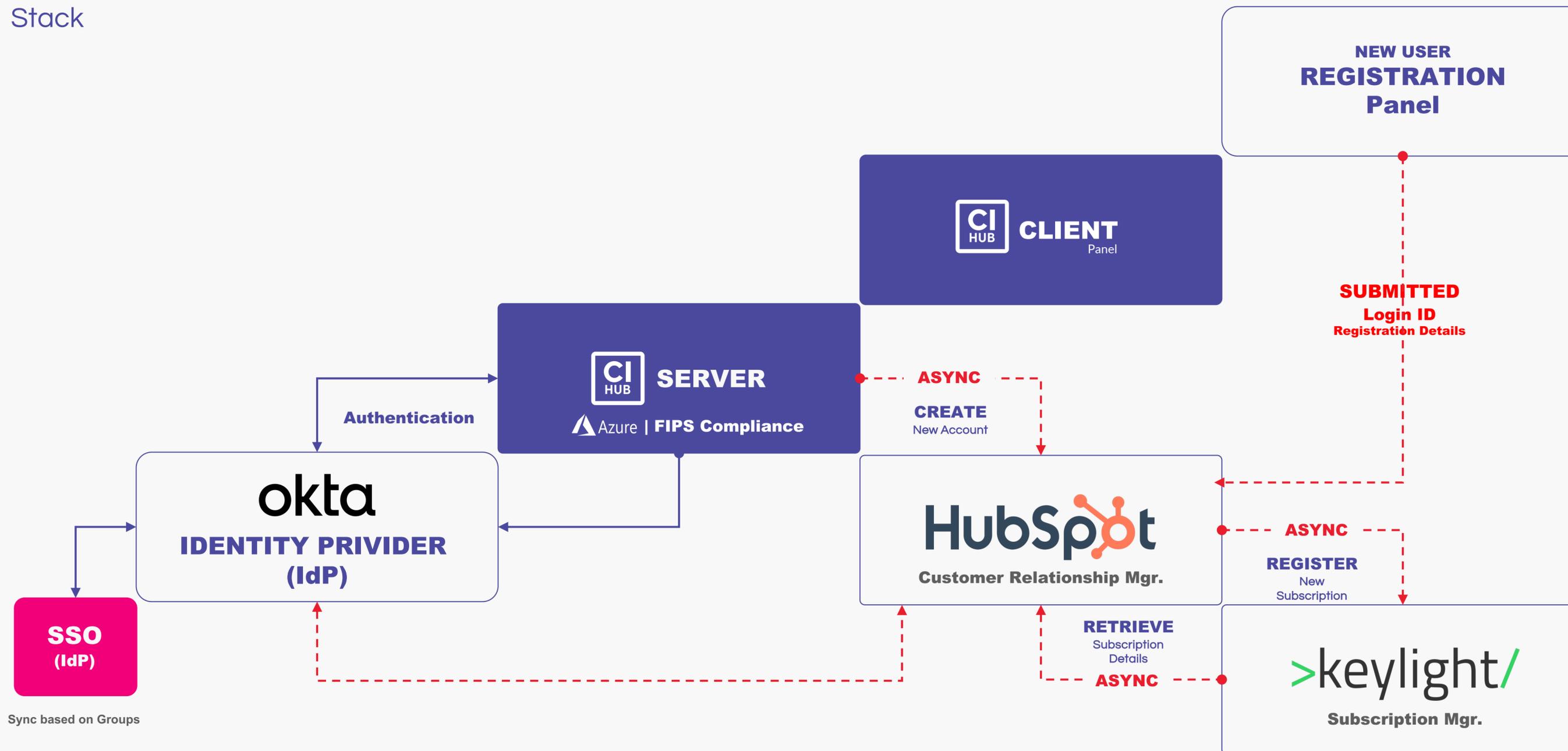
Basic, Client Certificate, MFA, SAML 2.0, OAuth, None

A: We use a full OKTA system for all AIM tasks. All available options of the OKTA offering can be found on the integration software provider website. www.okta.com

Some of the additional options come with additional cost and services. Please refer to our Sales Department.

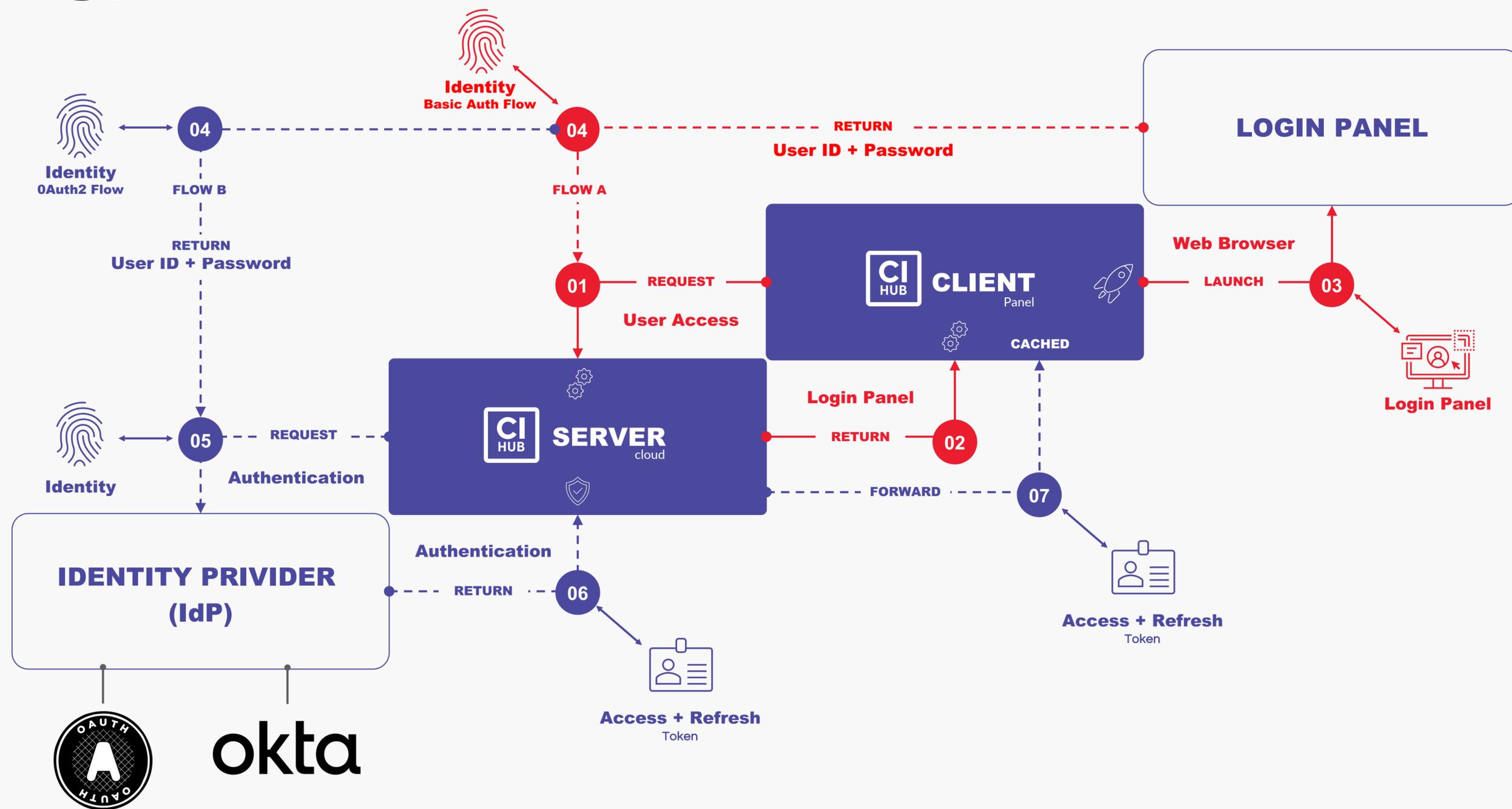
REGISTRATION

Stack



LOGIN

Flows



LOGIN

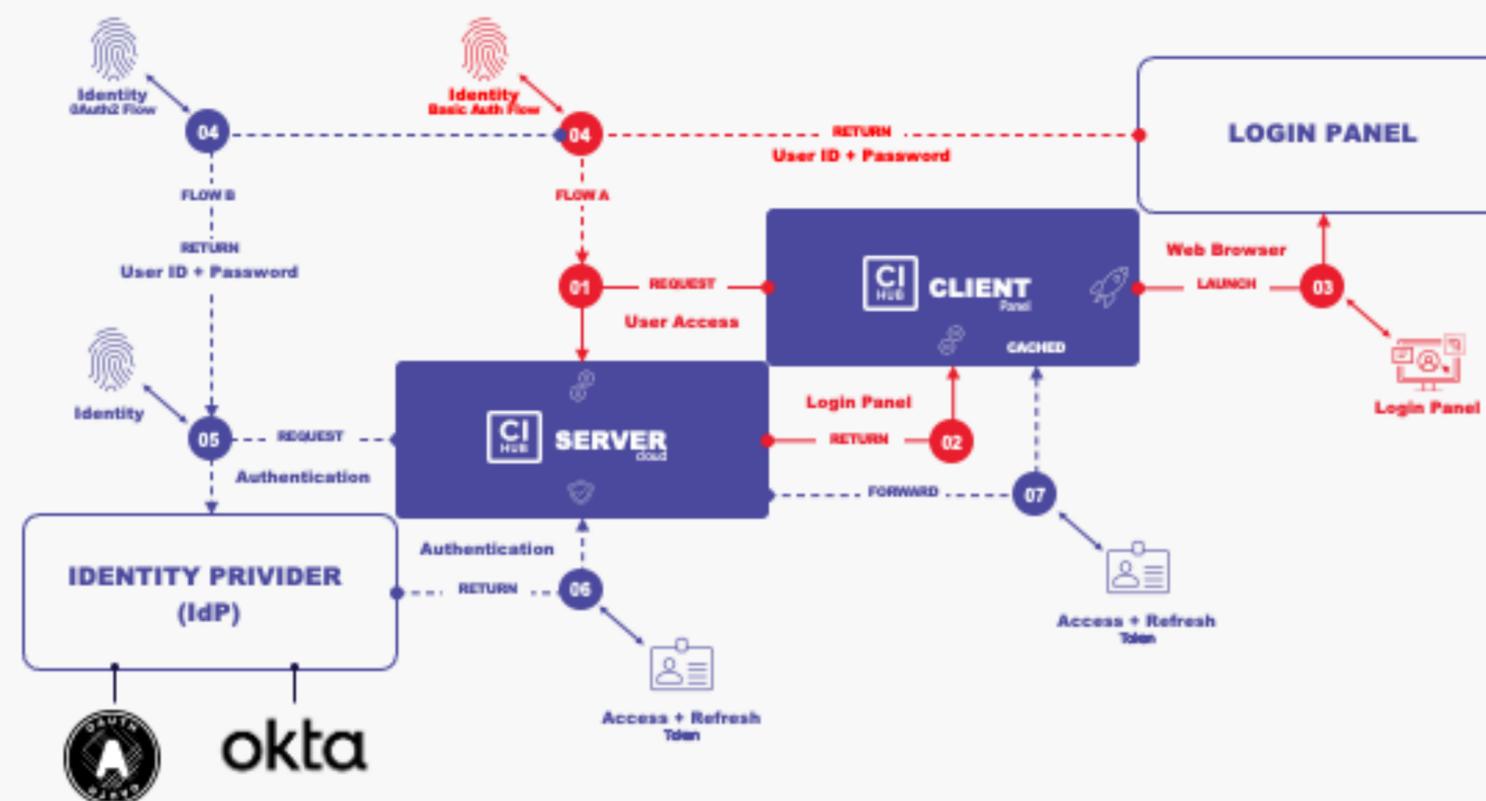
Flows

1. The client requests either login to the CI HUB Panel or integration to the CI HUB Server.
2. The server responds by providing the correct login panel information, including the authentication URL.
3. The user opens the login panel, which can be either the CI HUB Okta Login Panel or the Integration Login Panel.

4. **FLOW A:** In the case of basic authentication integrations, after the user enters their credentials in the panel, the username and password are passed to the CI HUB Server.

FLOW B: Alternatively, if the integration supports OAuth2, the user enter their credentials in the OAuth2 login page provided by the partner, customer IDP, or integration partner OAuth2. Our Okta then validates the request.

5. Security information is exchanged between our server and the IDP/partner using the OAuth2 protocol.
6. Upon successful security check, the partner IDP/OAuth2/Okta login returns the access and refresh tokens to our server.
7. The access and refresh tokens are then forwarded directly to the client, where they are cached for future use.



Auth Flow Availability	IdP Identity Provider	Credentials Source	Login Panel Provider	SSO Support
01	okta		okta	-
02	okta	PARTNER Platform	okta	✓
03		PARTNER Platform		✓
04*	Basic Auth Legacy			-

DSP DATA SUB-PROCESSOR



Type: Hosting & Infrastructure | LOCATION: ECC Netherlands

DATA TYPE	PROFILE:	USAGE	CLIENT CONFIGURATION	LICENSE INFORMATION:
Stored Operational	none	none	none	none
Passed-through Operational	<ul style="list-style-type: none"> User Identifier for the Integration (e.g., e-mail) CI HUB ID 	All data is secured by TLS 2.x	none	none
Bypassed Operational (Client/Integration)	none	Based on Integration capabilities. Min. Standard Requirement is TLS 2.x	none	none



DSP DATA SUB-PROCESSOR



Type: CRM | LOCATION: Germany

DATA TYPE	PROFILE:	USAGE	CLIENT CONFIGURATION	LICENSE INFORMATION:
Stored Operational	<ul style="list-style-type: none"> Names (SSO: Provided by IDP) E-Mail Addresses (SSO: Provided by IDP) Company Names SSO only: Group Name 	<ul style="list-style-type: none"> Used Host Systems, Used Content Integrations 	<ul style="list-style-type: none"> STAGE System assignment (Demo Server) Connector Black / Whitelist 	<ul style="list-style-type: none"> Expiry dates Product EAN
Passed-through Operational	none	none	none	none
Bypassed Operational (Client/Integration)	none	none	none	none



DSP DATA SUB-PROCESSOR

>keylight/

Type: Provisioning System | LOCATION: AWS Frankfurt

DATA TYPE	PROFILE:	USAGE	CLIENT CONFIGURATION	LICENSE INFORMATION:
Stored Operational	<ul style="list-style-type: none"> Names of License (only Admin and Customer Rep). CI HUB ID (e.g., e-mail Addresses) First name last name, and e-mail of invited license user Company Names Company Domain Company address (opt) 	none	none	Not assigned to a CI HUB ID (user) <ul style="list-style-type: none"> Expiry dates Product EAN
Passed-through Operational	none	none	none	none
Bypassed Operational (Client/Integration)	none	none	none	none



DSP DATA SUB-PROCESSOR

okta

Type: IAM | LOCATION: AWS Frankfurt

DATA TYPE	PROFILE:	USAGE	CLIENT CONFIGURATION	LICENSE INFORMATION:
Stored Operational	<ul style="list-style-type: none"> Names (if SSO: filled by IDP, based on Customer decision) CI HUB ID (if SSO: filled by IDP, based on Customer decision) If SSO: filled by IDP, based on Customer decision with Group assignment required by CI HUB 	<ul style="list-style-type: none"> Authentication Timestamps 	<ul style="list-style-type: none"> OPT. IF USER OPTS FOR THE CLIENT CONFIGURATION. TO BE INTERCHANGEBEL BETWEEN HOSTSYSTEMS. Connector Black / Whitelist 	<ul style="list-style-type: none"> Expiry dates Product EAN
Passed-through Operational	none	none	none	none
Bypassed Operational (Client/Integration)	none	none	none	none



SSO - General

SSO - IDP'S

PROCESS:

- 1: Check if your SSO setup is supported by CI HUB
2. Order Setup and Required Users.
3. The CI HUB Team will setup a Preparing Call as soon as the Order is Recived and we have reived all ness Informations from the Customer.
4. CI HUB will involve our Implementation Partner "xxxxxx" to lead the implementation.
5. Signoff

COST:

There is a Setup Fee of 6.500 € that needs to be paid before the Process. This fee also applies to changes

In addition there is a Yearly SaaS Fee per User and Month, based on a yearly prepayment

Both SSO Products are managed via the License Admin System or via email sales@ci-hub.com.

The SaaS Fee for the users we need a fixed amount for, are based on the required 'UserLicences not on the actual

PLEASE REFERRE TO THE SPECIFIC SSO INFO DOCUMENT

You have an SSO? (ex. AWS, Microsoft, Google cloud identity management...)

Send an email to sales@ci-hub.com



SSO - IdP Requirements

GROUPS

To effectively manage licenses, the Identity Provider (IdP) needs to provide the Service Provider (SP) with the required groups. These groups are specifically named as follows:

[COMPANY_NAME]-SSO-[HOST APPLICATION]

Examples.

MY-CORPORATION-AG-SSO-ADOBE

MY-CORPORATION-AG-SSO-MICROSOFT

SG-MY-CORPORATION-AG-DEPARTMENT-1-SSO-SKETCH

SUPPORTED HOST APPLICATIONS:

ADOBE

Any of the following Adobe products (Photoshop, InDesign, Illustrator, After Effects, Acrobat, InCopy)

MICROSOFT

Any MS Office Application (Word, excel, outlook...)

GOOGLE-WORKSPACE

the good old google products (sheets, docs, slides...)

WORDPRESS

SHAREPOINT:

Microsoft SharePoint

ADOBEEXPRESS

The Adobe Express Web App.

SUPPORTED IDP'S

SAML 2.0

Any OpenID Connect (OIDC)

✓ Amazon

✓ Apple

✓ Discord

✓ Facebook

✓ GitHub

✓ GitLab

✓ Google

✓ LinkedIn

✓ Login.gov

✓ Microsoft

✓ PayPal

✓ Salesforce

✓ Xero

✓ Yahoo

✓ Yahoo Japan

If your Identity Provider (IdP) is not included in the list, it is not possible to implement the Single Sign-On (SSO) Integration.

SAML 2.0 REQUIREMENTS

(ex. AWS IAM, Google cloud identity management...)

It is important that the SAML 2.0 protocol includes the user's email address, first name, last name, and relevant CI HUB groups in the SAML response. To guarantee a flawless setup, kindly furnish us with your Metadata XML file as soon as you receive ours. Furthermore, it is crucial that the **relayState** is transmitted as a **POST** parameter when sending the SAML response.

PLEASE REFERRE TO THE SPECIFIC SSO INFO DOCUMENT

SSO Implementation flow

Using CI HUB made easy



CI HUB tells if there are changes to the standard offer



Focus on your creativity.

Creativity | Teamwork | Standardization

www.ci-hub.com

