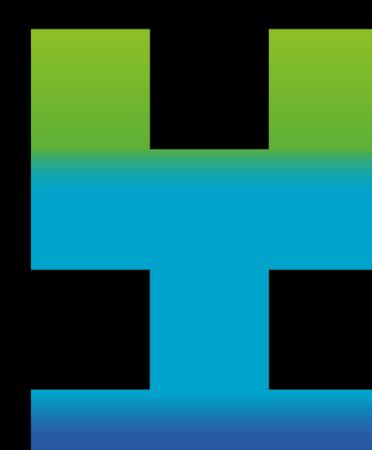
Welcome to the webinar Adjustment of header requirements for Documedis API platform and web app

06.02.2025 Jean-Yves Reutter, Developer Horia Mut, Developer

Agenda

- 1. Various integrations of Documedis & CDS
 - –Light VS deep integration–Resources
- 2. Documedis authentication
 - -Difference between our environments -HTTP Headers
- 3. Some examples
 - –with Swagger –with Curl
- 4. Questions
- 5. Miscellaneous

The session is being recorded

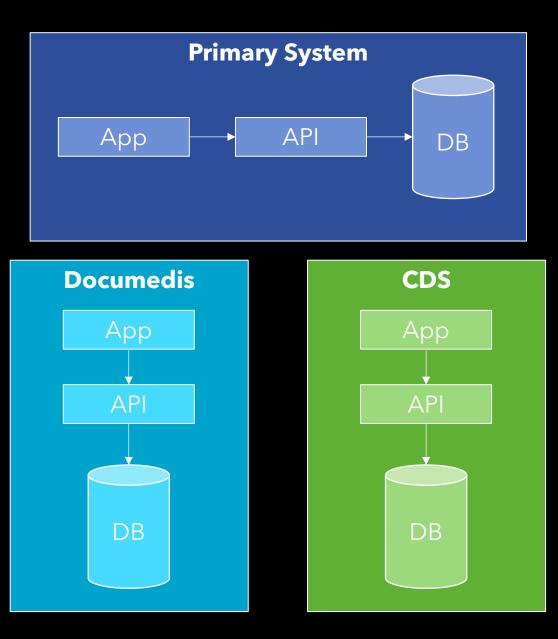


Various integrations of Documedis & CDS

Jean-Yves Reutter, Developer

HCI HIS solutions

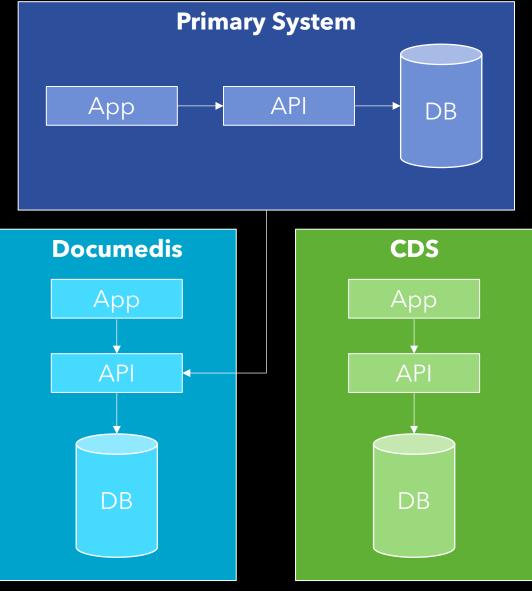
Architecture





Integration with Documedis API

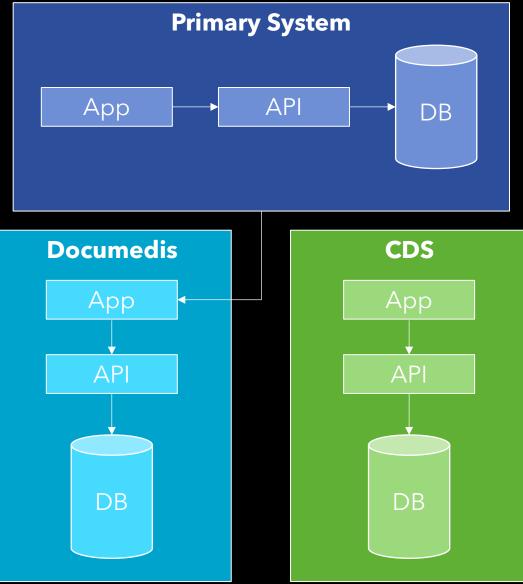
Deep Integration





Integration with Documedis App

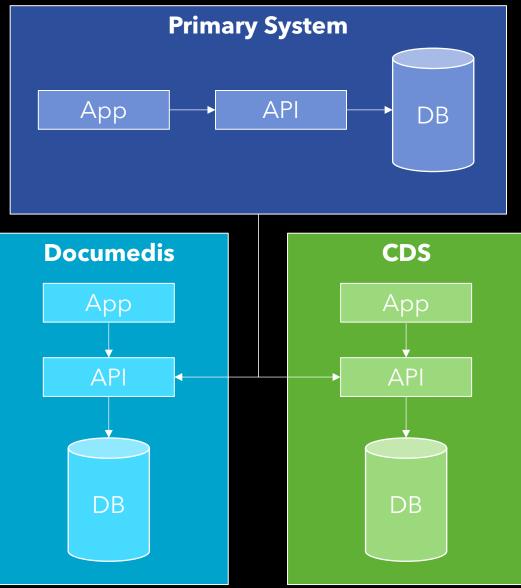
Light Integration





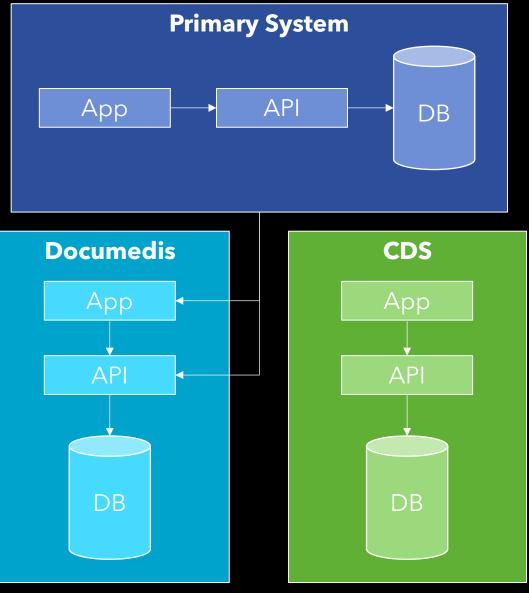
Integration with Documedis API and CDS API

Deep Integration



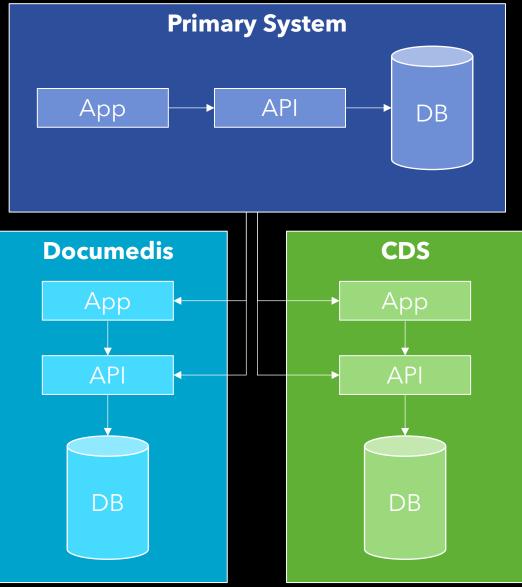


Mixed Integration





Mixed Integration with CDS

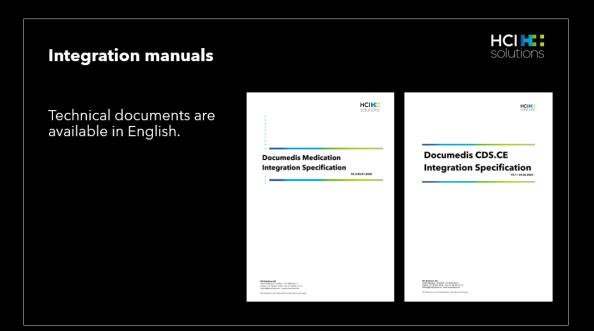




HCI Solutions' Support pages

Manuals and examples https://www.hcisolutions.ch/de/support/dokumentationen/manuals.php

Curl examples		HCI HE solutions				
Check Prescription	+					
Check Prescription Editor	+					
GetProduct	+	Check Prescription -				
Merge eMediplan in Editor	+	<pre>corllocationrequest POST 'https://ist.documedis.bcisolutions.ch/2020-01/api/sign/him/verify` \ bader 'Accept'.acguige: do: O' bader 'Accept'.templose'. 'L' bader 'Accept'.templose'. 'L' bader 'Accept'.templose'. 'L' </pre>				
Print and Sign Prescription	+					
Print eMediplan	+					
Print Prescription	+	G facerer				
Print Signed Prescription	+					
Show eMediplan in Editor	+					
Show Prescription in Editor	+					
Sign Prescription	+					





Curl examples

Check Prescription –					
Check Prescription Editor -	+				
GetProduct -	F	Check Prescription —			
Merge eMediplan in Editor –	ł	<pre>curllocationrequest POST 'https://int.documedis.hcisolutions.ch/2020-01/api/sign/hin/verify' \header 'Accept-Language: de-CH' \header 'Content-Type: application/json' \header 'accept: text/html' \header 'Action: Bearer XXXXXXXX-XXXX-XXXX-XXXXXXXXXXXXXXXXX</pre>			
Print and Sign Prescription –	┢				
Print eMediplan –	F	header 'HCI-SoftwareOrg: YOUR SOFTWARE ORG' \data-raw '{ "signedChmed" : "https://eprescription.hin.ch/#CHMED16A1H4sIAAAAAAACr1V32/aMBD+Vyq/jqz+nThvY4g0qe0ioH3YxIOTGIgCDnJMp67if+85KWhPLZNQJSzOn7/zfXccv }'			
Print Prescription -	F				
Print Signed Prescription –	⊦				
Show eMediplan in Editor –	F				
Show Prescription in Editor –	ł				
Sign Prescription -	+				

Integration manuals



Technical documents are available in English.



HCI Solutions AG Untermattweg 8 - Postfach - CH-3000 Bern 1 Telefon +41 58 851 26 00 - Fax +41 58 851 27 10 hotline®hcisolutions.ch - www.hcisolutions.ch

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Documedis Authentication

Horia Mut, Developer

What you need to know



- The **Int**egration testing environment is protected against unauthenticated calls.
- Our **Prod**uction environment will follow suit.
- You will need to send us the correct HTTP Request with the correct HTTP headers on production to get in.
- You have time to adapt.

General information



- Communicating with Documedis requires the caller to define dedicated Headers of the HTTP Post/Get request.
- The headers are described in detail in the Integration Specification Documedis Medication manual mentioned previously. (Chapter 4.2 Integrating the Documedis medication software into your clinical information system).
- The specification is in English.
- Let's go over the most important ones you must provide!

The important HTTP Headers



Header field	What is it	Example
HCI-CustomerId	GLN of the healthcare organization	7601234567890
HCI- SoftwareOrgId	Partnerld of the software manufacturer	1234
HCI-SoftwareOrg	Name of the software manufacturer	YourCompany
HCI-Software	Name of the application	NameOfYourApplication
HCI-Index	The Index you have a contract for	MedIndex
Authorization	The bearer token	Bearer 12345678-1234-1234-1234- 123456789012

Providing the headers Example 1 - .net



1	private HttpClient GetHttpClient(IHciHttpHeaders headers, string acceptLanguage = "", string accept = "application/json")
2	{
3	var client = new HttpClient();
4	client.DefaultRequestHeaders.Authorization = new AuthenticationHeaderValue("Bearer", headers.Token);
5	
6	client.DefaultRequestHeaders.Accept.Clear();
7	client.DefaultRequestHeaders.Accept.Add(new MediaTypeWithQualityHeaderValue(accept));
	<pre>client.DefaultRequestHeaders.AcceptLanguage.Add(new StringWithQualityHeaderValue(acceptLanguage));</pre>
9	
10	client.DefaultRequestHeaders.Add("HCI-CustomerId", Base64EncodeHeaderValue(headers.CustomerId));
11	<pre>client.DefaultRequestHeaders.Add("HCI-Index", Base64EncodeHeaderValue(headers.Index));</pre>
12	client.DefaultRequestHeaders.Add("HCI-SoftwareOrgId", Base64EncodeHeaderValue(headers.SoftwareOrganizationId));
13	client.DefaultRequestHeaders.Add("HCI-SoftwareOrg", Base64EncodeHeaderValue(headers.SoftwareOrganization));
14	<pre>client.DefaultRequestHeaders.Add("HCI-Software", Base64EncodeHeaderValue(headers.Software));</pre>
15	<pre>client.DefaultRequestHeaders.Add("HCI-UserId", Base64EncodeHeaderValue(headers.UserId));</pre>
16	client.DefaultRequestHeaders.Add("HCI-UserName", Base64EncodeHeaderValue(headers.UserName));
17	client.DefaultRequestHeaders.Add("HCI-UserAccessType", Base64EncodeHeaderValue(headers.UserAccessType));
18	client.DefaultRequestHeaders.Add("HCI-UserAuthenticationLevel", Base64EncodeHeaderValue(headers.UserAuthenticationLevel));
19	client.DefaultRequestHeaders.Add("HCI-UserHealthProfession", Base64EncodeHeaderValue(headers.UserHealthProfession));
20	client.DefaultRequestHeaders.Add("HCI-SubCatalogId", Base64EncodeHeaderValue(headers.SubCatalogId));
21	client.DefaultRequestHeaders.Add("HCI-WholesalerGln", Base64EncodeHeaderValue(headers.WholesalerGln));
22	return client;
23	}
24	
	private string Base64EncodeHeaderValue(string value)
26	
27	<pre>var valueAsBytes = Encoding.UTF8.GetBytes(value);</pre>
28	return \$"[{Convert.ToBase64String(valueAsBytes)}]";
29	}

Providing the headers Example 2. Rust



```
use base64::prelude::*;
     use reqwest::{
         blocking::{Client, Request, Response},
         header,
     };
     use std::time::Duration;
     fn main() -> Result<(), Box<dyn std::error::Error>> {
         let mut headers = header::HeaderMap::new();
10
         headers.insert("HCI-SoftwareOrgId",header::HeaderValue::from str(&std::env::var("HCI SOFTWAREORGID")?)?);
11
12
         let software name = BASE64 STANDARD.encode("Not an äscii name");
13
         headers.insert("HCI-Software",header::HeaderValue::from_str(&format!("[{}]", software_name))?);
15
         let client: Client = request::blocking::Client::builder().default headers(headers)
17
             .user agent("headers in rust").build()?;
         let req: Request = client.get("https://int.documedis.hcisolutions.ch/2020-01/api/products/1383139")
             .bearer_auth(std::env::var("HCI_AUTHTOKEN")?).timeout(Duration::from_secs(60 * 2))
             .build()?;
21
22
         let res: Response = request::blocking::Client::execute(&client, req)?;
23
         println!("Success? {:?}", res.status().is_success());
         println!("Response: {:?}", res);
25
         println!("Response content: {:?}", res.text());
         Ok(())
```

Providing the headers Example 3. HTML form



15	<form <="" action="@string.Concat(ApplicationSettings.Value.CE.PrimaryCareAlgorithm.ViewerUrl, Model.AcceptLanguage)" th=""></form>
16	<pre>method="post" id="pcaForm" name="pcaForm" target="pca_frame"></pre>
17	<input id="post2documedis_Accept" name="Accept" type="hidden" value="text/html"/>
18	<input id="post2documedis_access_token" name="access_token" type="hidden" value="@Model.AccessToken"/>
19	<input id="post2documedis_HCI-CustomerGLN" name="HCI-CustomerId" type="hidden" value="@Model.CustomerId"/>
20	<input id="post2documedis_HCI-Index" name="HCI-Index" type="hidden" value="@Model.Index"/>
21	<input id="post2documedis_HCI-SoftwareOrgId" name="HCI-SoftwareOrgId" type="hidden" value="@Model.SoftwareOrganizationId"/>
22	<input id="post2documedis_HCI-SoftwareOrg" name="HCI-SoftwareOrg" type="hidden" value="@Model.SofwareOrganization"/>
23	<input id="post2documedis_HCI-Software" name="HCI-Software" type="hidden" value="@Model.Sofware"/>
24	<input id="post2documedis_HCI-StyleColor1" name="HCI-StyleColor1" type="hidden" value="@Model.StyleColor1"/>
25	<input id="post2documedis_HCI-StyleColor2" name="HCI-StyleColor2" type="hidden" value="@Model.StyleColor2"/>
26	
27	<input id="post2pca" name="medication" type="hidden" value="@Model.Medication"/>
28	<input id="post2pcaTargetOrigin" name="targetOrigin" type="hidden" value="@Model.TargetOrigin"/>
29	
30	<iframe frameborder="0" id="pca_frame" name="pca_frame" src="" style="width:100%;"></iframe>
31	
32 >	<script type="text/javascript">···</th></tr><tr><th>62</th><th></script>
63	}



Adaptation phases

- Both environments validate headers mentioned
- Access depends on the current phase and environment
- An information message is present in response header : Header-Validation-Result
- An error message is displayed along with a 401 HTTP Status code
- Information & Error messages are described in specification

	Phase 1	Phase 2
Header validation performed	Yes	Yes
Can I get in	Yes (Yes/No on Integration)	No on both environments
	Information Message in Header-Validation-Result	Error Message

Adaptation phases



- We log all requests that are being sent to Documedis
- We log your
 - Token,
 - SoftwareOrgId,
 - SoftwareOrg,
 - Software
 - Index,
 - CustomerId
- So we can contact customers that have not adapted before the deadline

Wrap up



- Our **Prod**uction environment is going to require correct HCI HTTP Headers
- You can already test the HTTP Headers on **Int**egration.
- In the future if you can not access **Int**, you can not access **Prod**!
- You have time to adapt.

Postman & DID Demo Time

Questions, ideas or suggestions?

Thanks for your attention!