

Vælkomin á verkstovu um Heldina (Dagur 1)

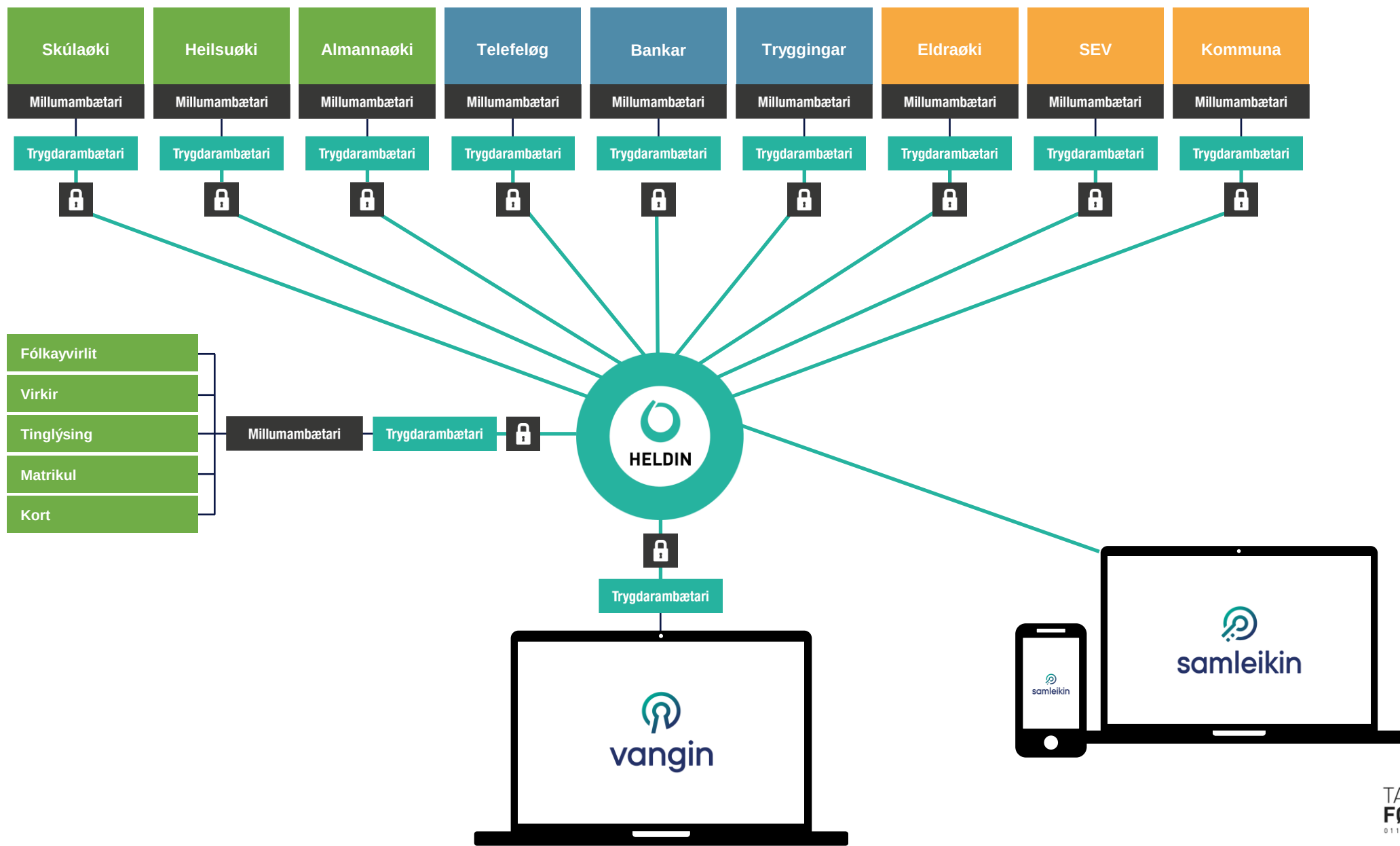
TALGILDU
FØROYAR
01100110 01101111

Skrá – Dagur 1

09:00	Intro
09:15	Heldin fyrisiting
10:00	Steðgur
10:10	Heldin fyrisiting
11:00	Steðgur
11:10	Heldin fyrisiting
11:40	Dømi um uppseting frá Vanganum
12:00	Døgurðasteðgur
13:00	Umsiting av trygdarambætarum
13:50	Steðgur
14:05	Umsiting av trygdarambætarum
15:00	Liðugt

Stutt um Heldina

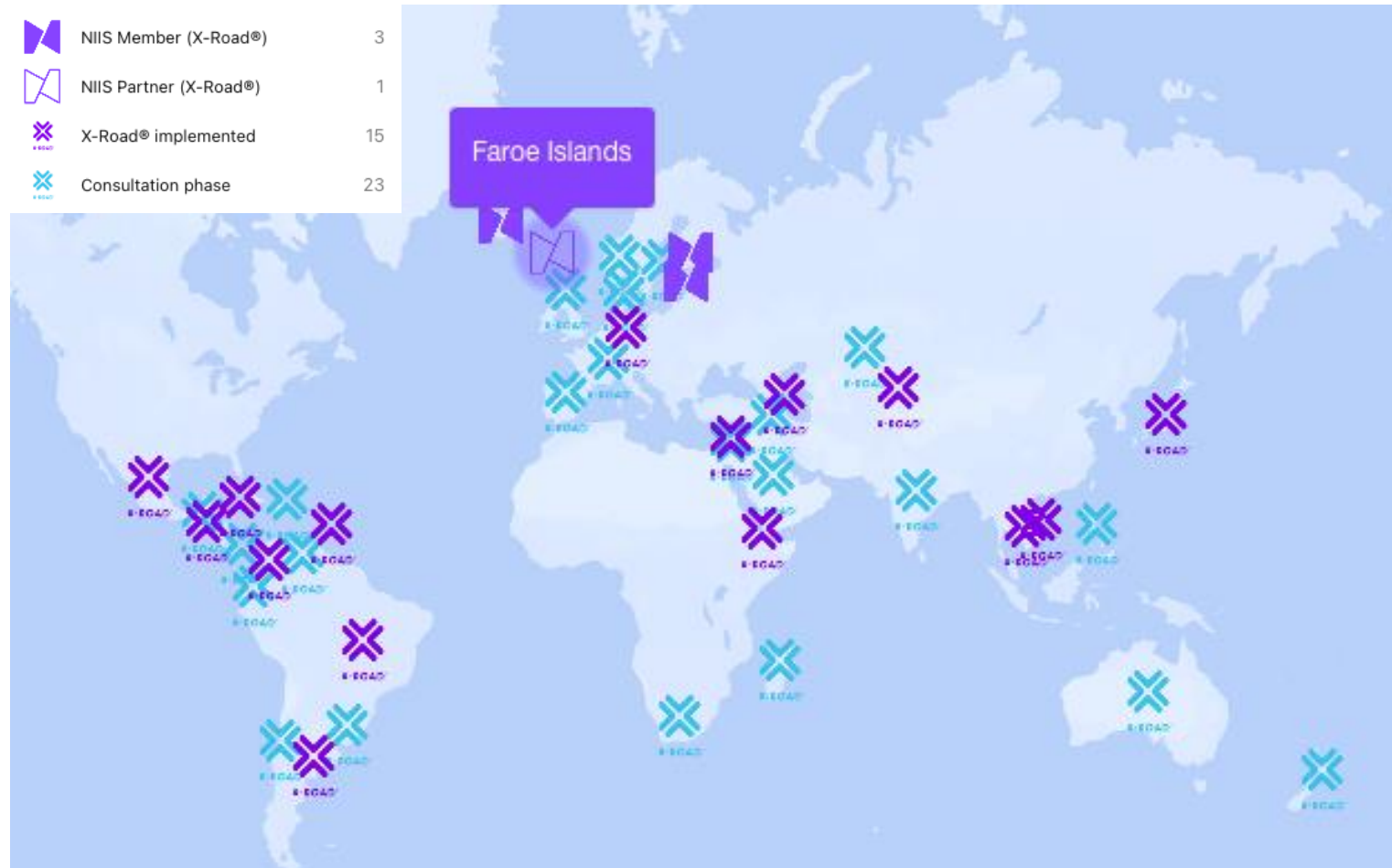
- Tryggur samskiftispallur
- Grundað á estlenska samskiftispallin X-Road
- Bleiv íverksett í Føroyum í 2015
- Í 2016 kom rundskriv um at allir almennir stovnar skulu brúka Heldina til dátusamskifti
- Í dag eru 43 luttakarar og uml. 50 vevtænastur á Heldini



Stutt um Heldina

- Nordic Institute for Interoperability Solutions, [NIIS](#), eigur og víðarimennir [X-Road](#).

Stutt um Heldina



Stutt um Heldina

- Heldin uppstiga
 - Lættari umsiting av trygdarambætarum
 - Nú eisini við REST
 - Grundað á nýggjari tøkni
- Nýggj umsitingarskipan ment

Hví Heldin?

- Trygt samskipti, ið er lætt at íverkseta
- Standardisera samskipti
 - Endurnýtsla av útstillaðum dátum
 - Lættari at knýta í við tíðini

Hugtøk á Heldini

Vevtænasta (Webservice)

Vevtænasta verður brúkt til dátusamskipti á Heldini.

Luttakari (Member)

Ein luttakari er ein myndugleiki, virki ella felag, sum hevur knýtt eina ella fleiri KT skipanir í Heldina.

Heldarábyrgdari (Delegate)

Persónur, ið hevur at gera bindandi avtalur á Heldini vegna stovnin.

KT Skipan (Subsystem/Client)

Fyri at samskipta á Heldini skal luttakarin tilmelda eina KT Skipan (subsystem/client).

Vevtænastubrúkarari (Consumer)

Tá ein luttakari hevur eina skipan, sum kallar eina vevtænastu hjá einum vevtænastuveitara, verður hann umrøddur vevtænastubrúkarari.

Vevtænastuveitari (Producer)

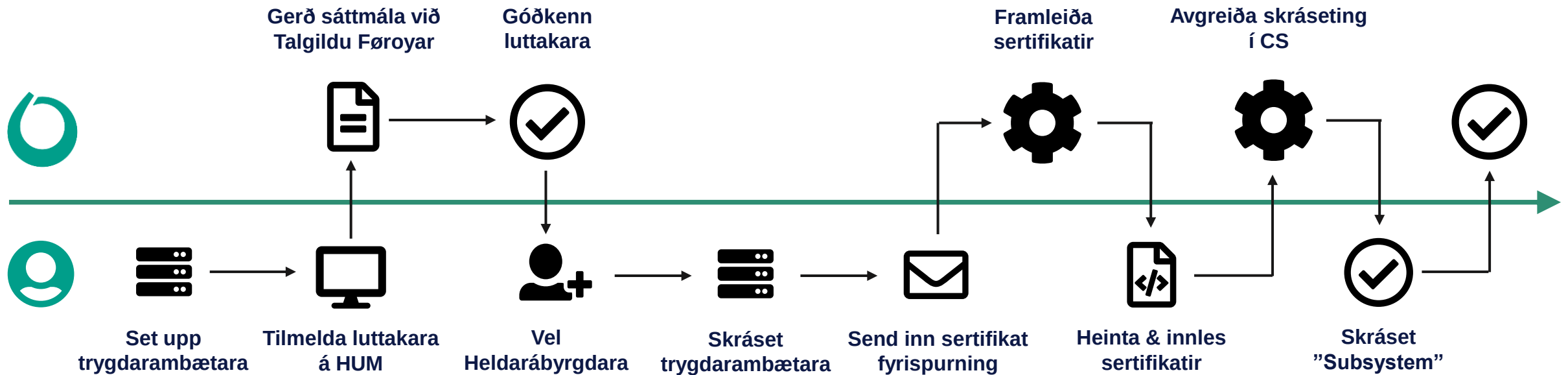
Tá ein luttakari eigur eina vevtænastu, sum umsitur dátur sum aðrir myndugleikar kunnu umbiðja, verður hann umrøddur vevtænastuveitari.

Sí fleiri hugtøk á [heimasíðuni](#)

Ábyrgdir og rollir

	Stjóri	Heldarábyrgdari	Teknisk rolla
Fyrisiting			
Sáttmála við Talgildu Føroyar	X		
Góðkenna Heldarábyrgdarar	X		
Góðkenna tekniskar rollur	X	X	
Skráseting			
Gera fyrispurningar	X	X	X
Góðkenna fyrispurningar	X	X	
Leggja upp CSR	X	X	X
Heinta sertifikatir	X	X	X

Innlimingar mannagongdin

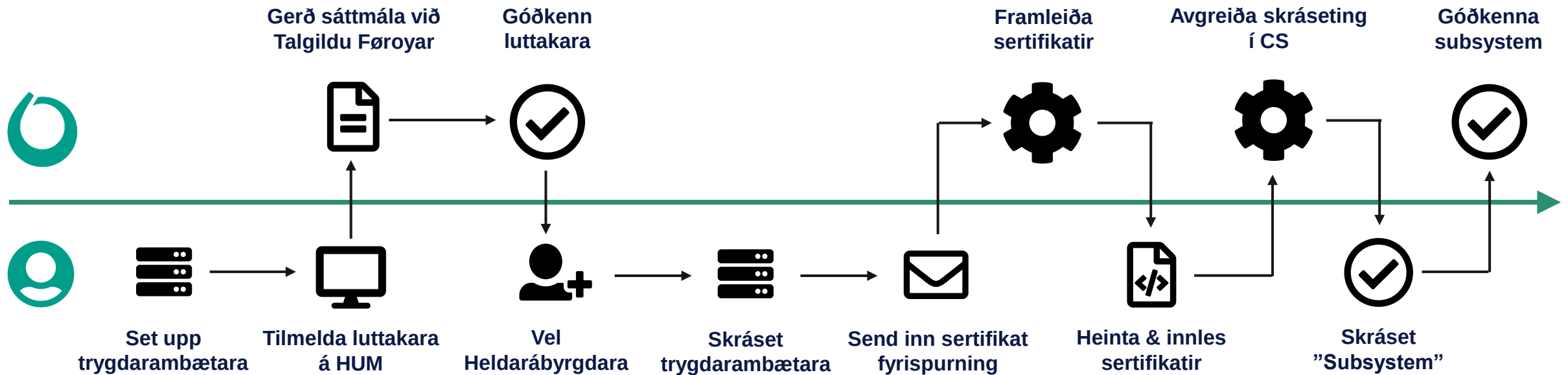


Mannagongdin – Hvat skal gerast eftir innliman

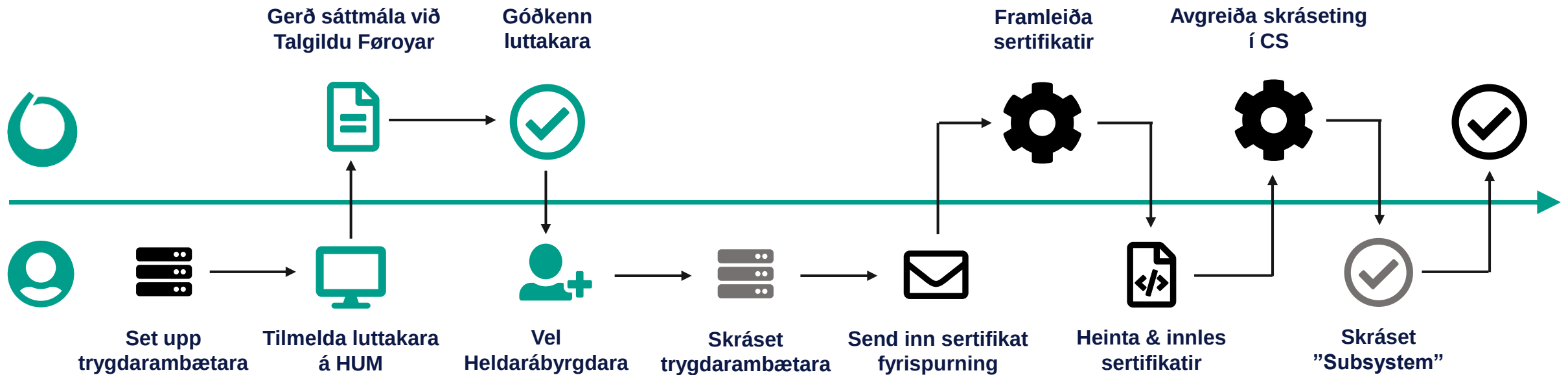
- Vevtænastubrúkari**
- Avtala við vevtænastuveitara
 - Fyrirspurningur um atgongd til vevtænastu sendast til vevtænastuveitara
-

- Vevtænastuveitari**
- Skráset vevtænastu á KT skipan (Subsystem)

Innlimingar mannagongdin



Innlimingar mannagongdin – fyrisitingarligar uppg.



Fyrisitingarligar uppgávur á Heldini

- Skráseting av luttakarum
- Sáttmálaviðurskiftir
 - Talgildu og luttakarín
 - Luttakara til luttakara
- Brúkarastýring
 - Viðlíkahalda av rollum
- Skráseting av servarum
- Skráseting av KT skipanum (Subsystemum)

Logging

- Tað eru einstøku trygdarambætararnir sum logga
- Eingin logging á felags trygdarambætarum
- Sløg av logging
 - Full logging
 - Metadata logging
 - Ongin logging
- Nær er umráðandi at logga?

Les meira um logging [her](#)

Heldarumsitingarskipanin – HUM

- Umsitingarskipan til fyrisitingarligar uppgávur
- Hentleikar
 - Betri yvirlit yvir luttakarar
 - Lættari tilmelding av nýggjum luttakarum
 - Lættari tilmelding av trygdarambætarum
 - Lættari skráseting av nýggjum KT skipanum (Subsystems)
 - Betri brúkarastýring
- Er at finna á www.heldin.fo
- Er tøk frá í dag!

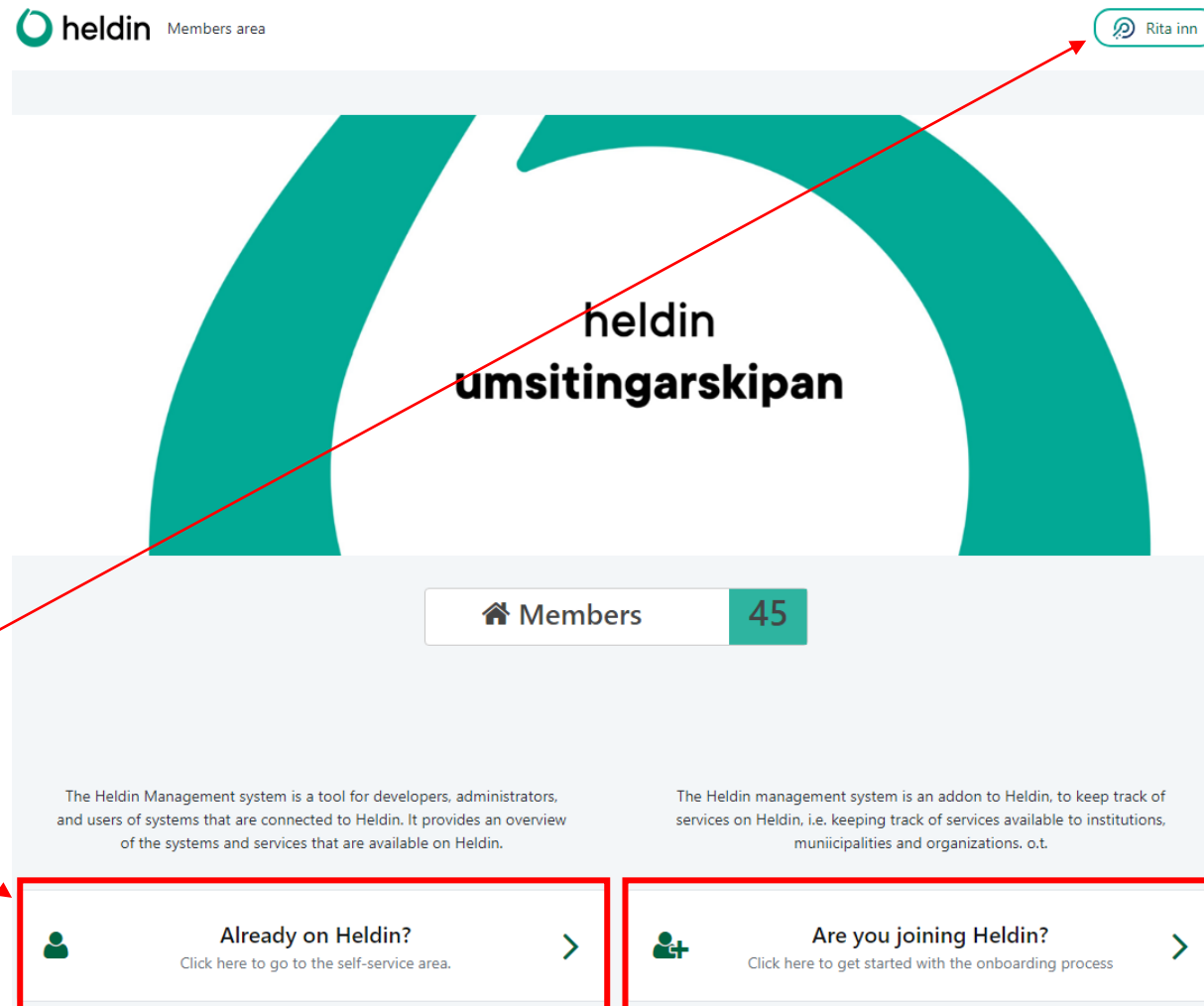
Heldarumsitingarskipanin – Framtíðarætlanir

Vit arbeiða víðari uppá HUM fyri at skapa eina enn betri uppliving!

M.a. arbeiða vit við:

- Betri brúkarauppliving / nýggjum hentleikum
- Talgild undirskrift av sáttmálum
- Automatisering av ávísum uppgávum

Heldarumsitingarskipanin – Forsíðan



Vel hetta um tú longu ert luttakari á Heldini

Vel hetta um tú ert nýggjur luttakari

Heldarumsitingarskipanin – Skráset nýggjan luttakara

The image shows a web form for requesting membership in X-Road. The form is titled "Specify your organization code" and contains several input fields and a submit button. Red boxes and arrows highlight specific parts of the form with explanatory text in Faroese.

Specify your organization code

Please enter company registration number (v-tal) below:

You are requesting to join X-Road on behalf of

0

Alment ella privat? → Specify this member's classification:

Please select a Member Type ▼

You are requesting this membership as the following user:

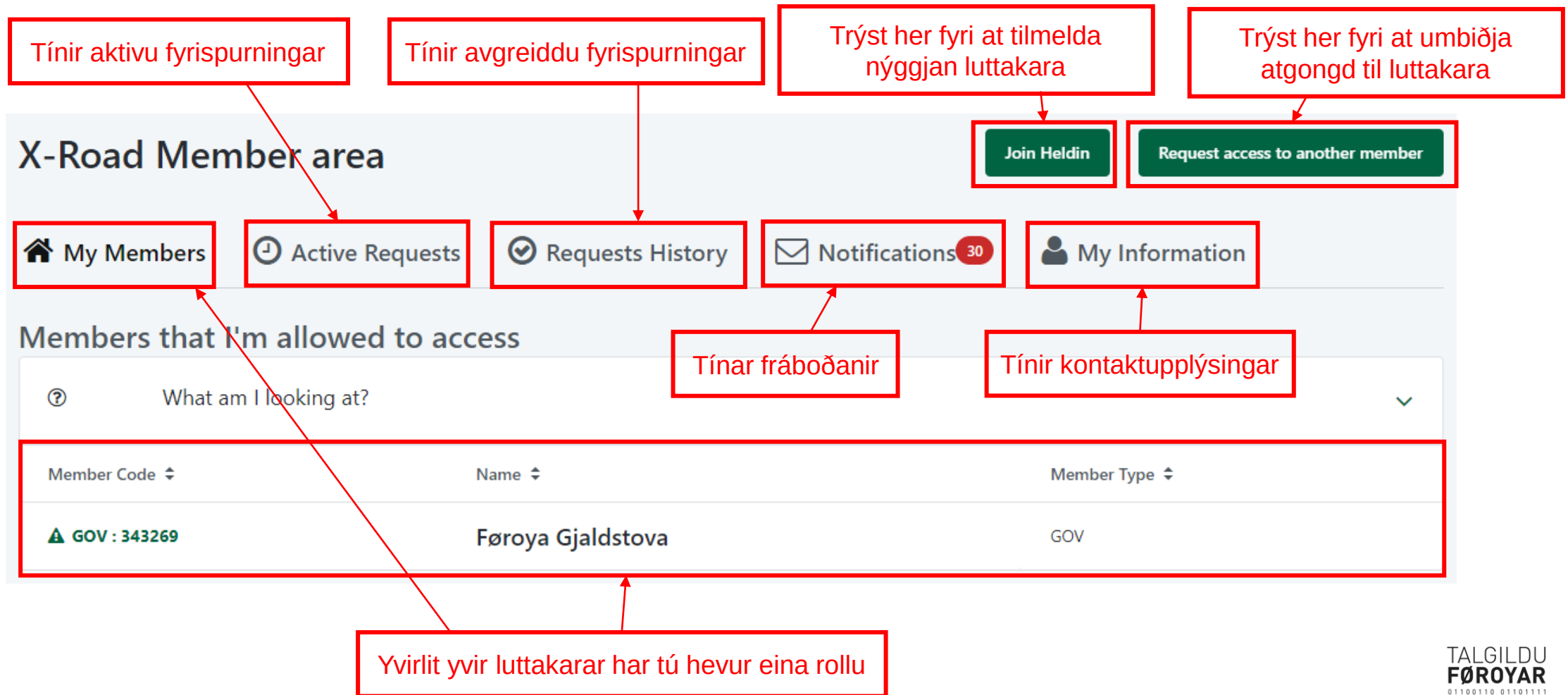
Jens Petur Andreassen (271084099)

Hvør er tín rolla? → What is your role in this organization?

Please select the correct role ▼

V-tal hjá luttakara → (points to the company registration number input field)

Heldarumsitingarskipanin – Títt yvirlit



Heldarumsitingarskipanin – Bið um atgongd til luttakara

The image shows a web form titled "Specify member code" with several fields and a submit button. Two red boxes with arrows point to specific parts of the form: one points to the "V-tal" input field, and the other points to the role selection dropdown.

Specify member code

Please enter company registration number (v-tal) below:

You are requesting access to

0

You are requesting this membership as the following user:

Jens Petur Andreasen (271084099)

What is your role in this organization?

Please select the correct role

Submit membership request

V-tal hjá luttakara

Hvør er tín rolla

Heldarumsitingarskipanin – Luttakara yvirlit

343269 : Føroya Gjaldstova

No requests waiting for me to take action

General Information Security Servers Subsystems/Clients Webservices Requests

Member Information

Grund upplýsingar Yvirlit yvir trygdarambætarar Yvirlit yvir KT skipanir Yvirlit yvir fyrispurningar Yvirlit yvir vevtænastur

Member Code
343269

Name
Føroya Gjaldstova

Start Date
4 Mar 2020

Address Street Name
- KVÍGGJARTÚN 1

Address House No

Address Unit Name

Post Code
160

City
ARGIR

Refresh

Internet Url

English Name

Is Validated In Public Register
✓

Activated By Approval Flow

Is Validated By Member Manager

Is Validated By Backoffice
✓

Heldarumsitingarskipanin – Ambætara yvirlit

343269 : Føroya Gjaldstova

No requests waiting for me to take action

General Information **Security Servers** Subsystems/Clients Webservices Requests

Owned Security Servers **Joined Security Servers** [Get the anchor files here](#)

Trýst her fyri at tilmelda nýggjan trygdarambætara

Trýst her fyri at síggja ella knýta í felags trygdarambætara

Create a new security server

Security Server Code	Dns	Heldin Environment
Servara yvirlit		

Heldarumsitingarskipanin – Skráseting av trygdarambætara

Please specify the environment that this server will operate in

Umhvørvið (Dev, Test ella Prod.)
FO-DEV

Server Host Name (what is the server's actual OS hostname) *

Hostnavn á trygdarambætara

DNS name (Fully qualified domain name) *

DNS navn, ið er stovnað IP til addressuna

Security Server Code ? *

Eyðmerking av servara

Server Internal IP (for your own reference)

Interna IP addressan

Server Hosting Physical Location *

Hvar verður serverin hýstur?

Server Notes

Intern nota um, hvat hesin ambætarin verður brúktir til

Cancel

Save

Heldarumsitingarskipanin – Skráseting av trygdarambætara

Trýst her fyri at melda nýggja KT skipan til

343269 : Føroya Gjaldstova

No requests waiting for me to take action

General Information

Security Servers

Subsystems/Clients

Webservices

Requests

Member Clients

+ Add client/subsystem

Environment ⇅

Subsystem Identifier ⇅

On Security Server ⇅

Yvirlit yvir KT skipanir (subsystems)

Heldarumsitingarskipanin – Skráseting av KT skipan (subsystem)

Use the form below to request a subsystem for member: **GOV:343269**

Subsystem name: Navn á KT skipan	X-Road Environment: FO-DEV Umhvørvið ▼	Server that will host the subsystem: dev-mss.heldin.fo Hvønn servara hoyrir hetta til? ▼
Description Lýsing av KT skipan		
Subsystem User Friendly Name		Hide On Public Site ☐
Submit client/subsystem request		

Skal hetta síggjast á almenna yvirlitinum?

Heldarumsitingarskipanin – Skráseting av KT skipan (subsystem)

Requests waiting for me

 **Kim Wang** is requesting the role of **Delegated X-Road Manager Role** in your company Show Request

General Information Security Servers **Subsystems/Clients** Webservices Requests

Member Clients Add client/subsystem

Environment Subsystem Identifier On Security Server

No items to show...

Member Client Requests

Date submitted	Environment	Subsystem Name	Request Status	Show On Public Site	Server Host Name
21-09-2022 22:06:43	FO-DEV	Test1	pending	✓	test-av-hum

Fyrirspurningur um skráseting av KT skipan skal góðkennast áðrenn hann verður sendur til avgreiðslu

Confirm client

Heldarumsitingarskipanin – DEMO

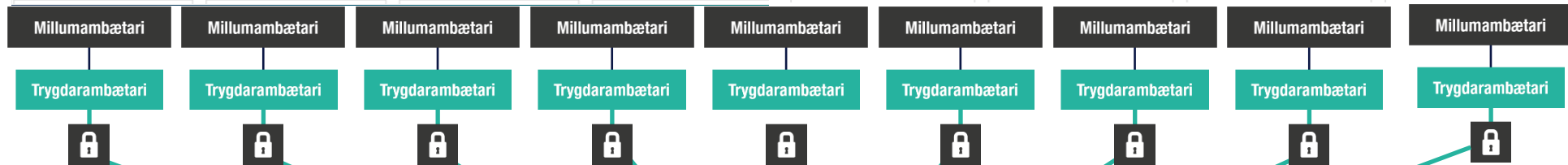
- Sí HUM vegleiðing [her](#)

Vangaumhvørvið & Heldin

Vangin hevur nógv markamót yvir Heldina

Knýti til 36 Tænastuveitarar og vaksandi 😊

- Ein TV kann hava fleiri skipanir/vevtænastur
- Ein TV kann hava vevtænastur á ymiskum trygdarambætarum
- Vangin sjálvur útstillar 2 vevtænastur
 - Kalendarin
 - Brúkaraskráin



- Fólkayvirlit
- Virkir
- Tinglýsing
- Matrikul
- Kort

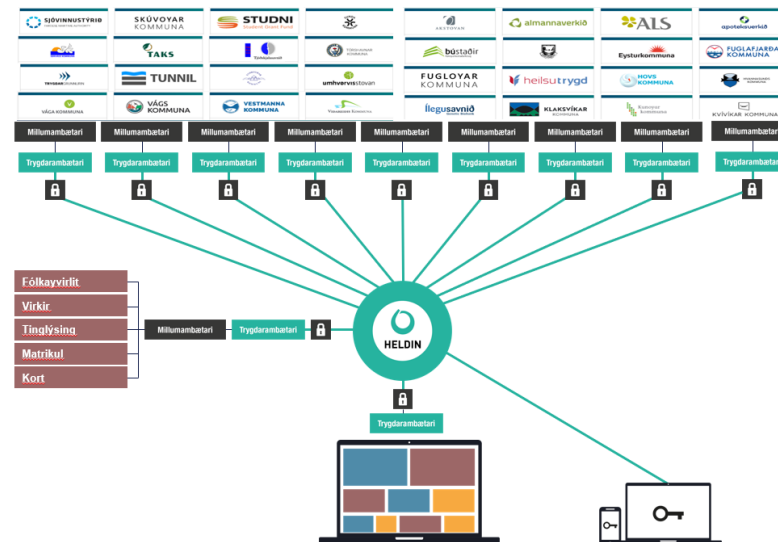
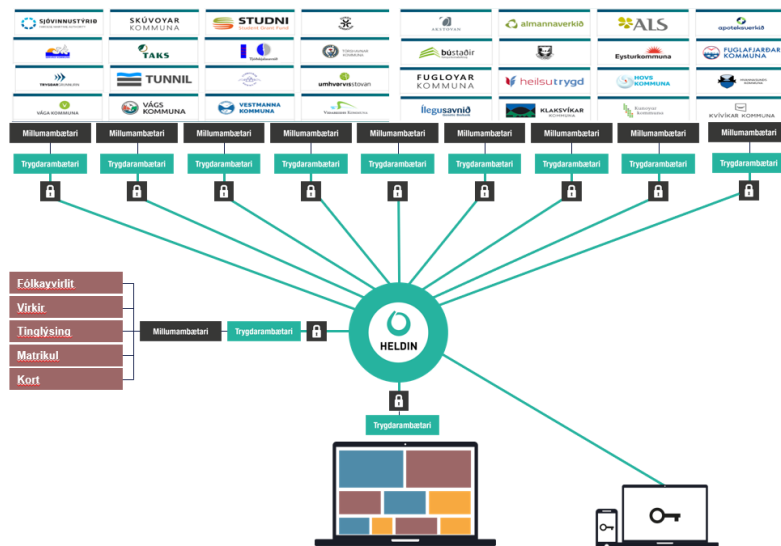
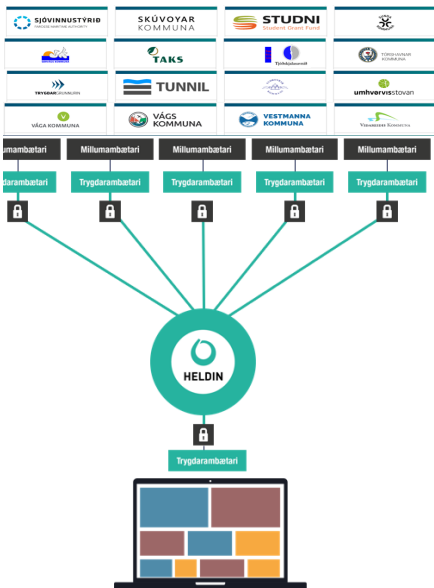


VANGIN

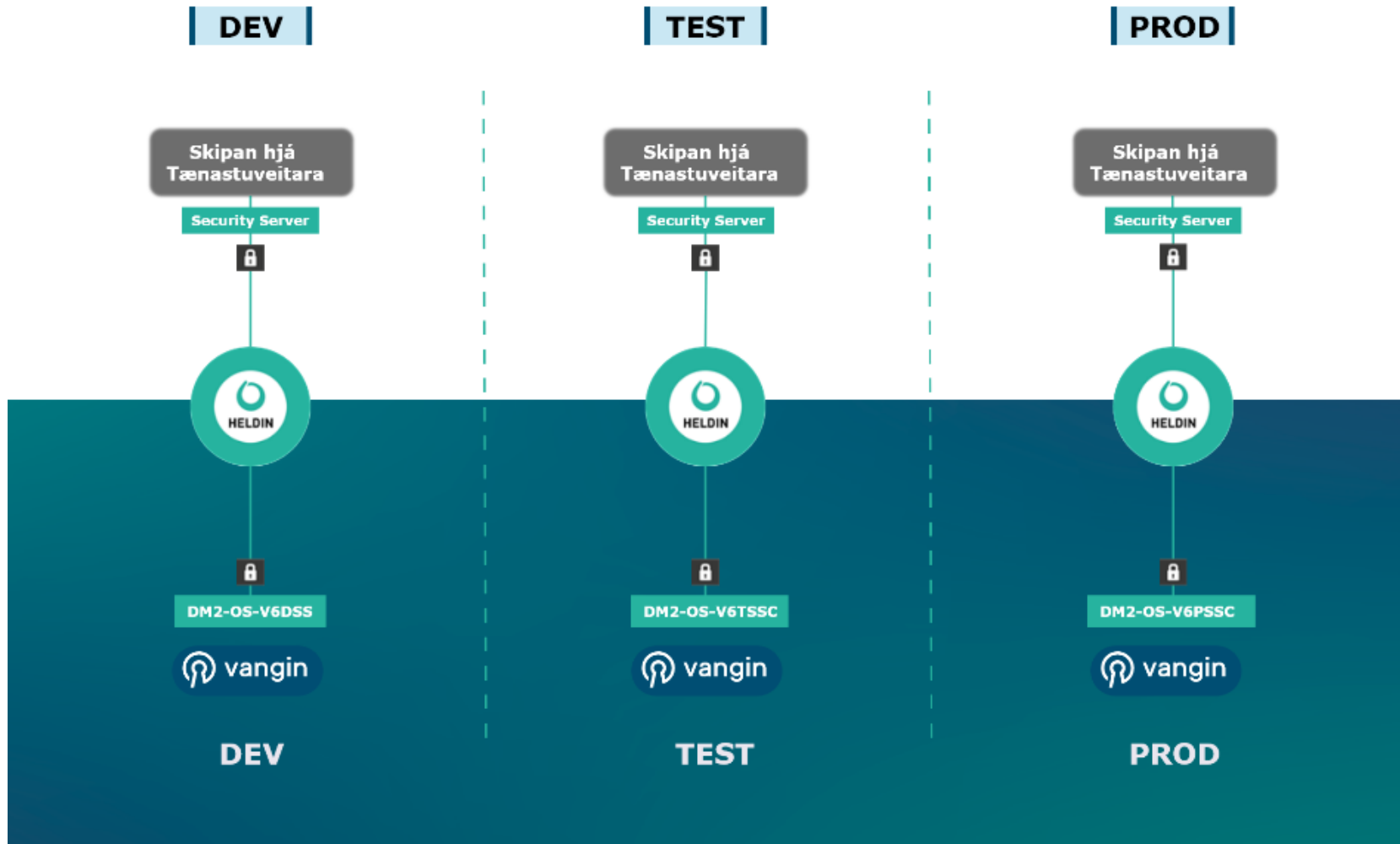


SAMLEIKIN

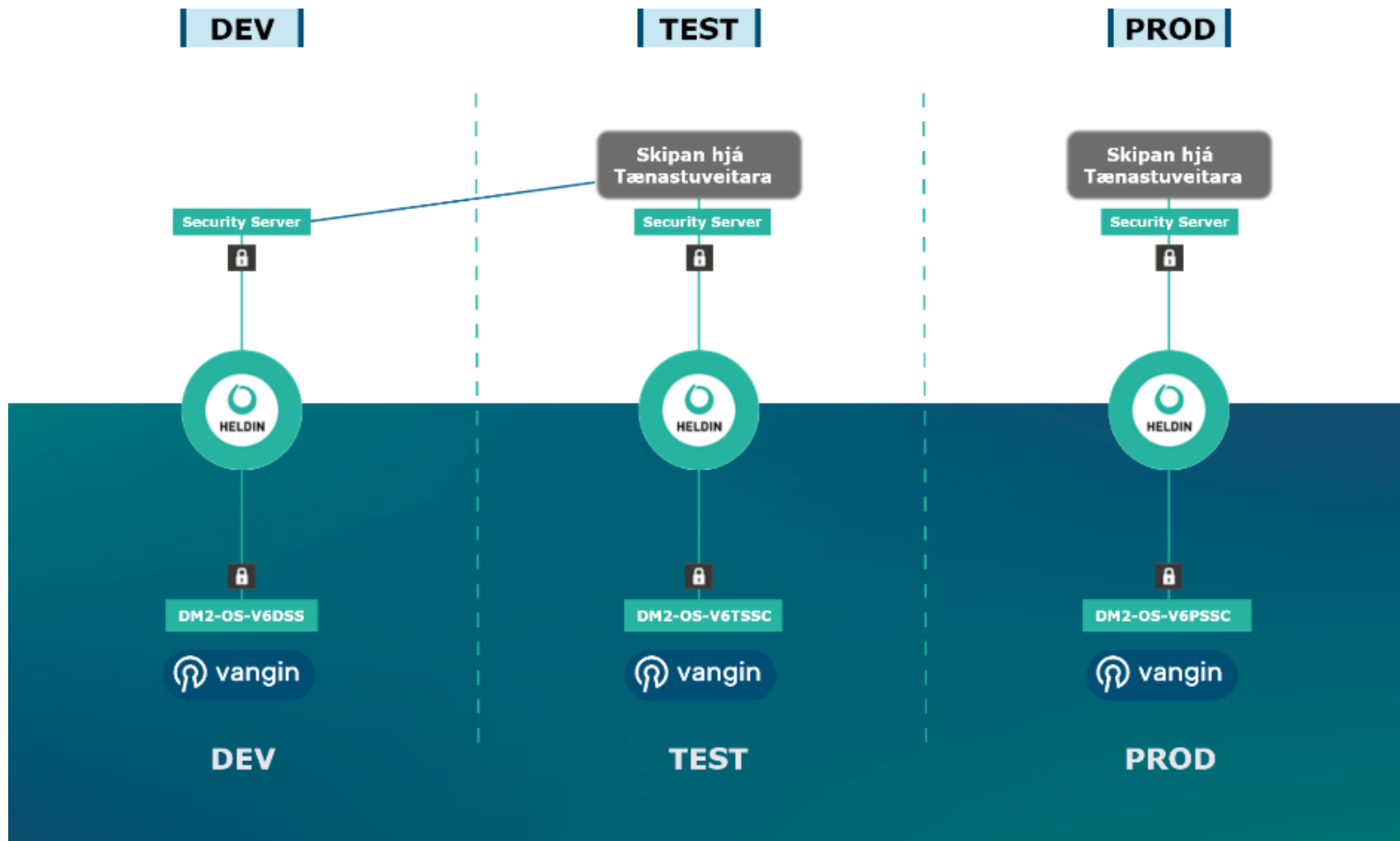
Vangin hefur 3 umhvørvir



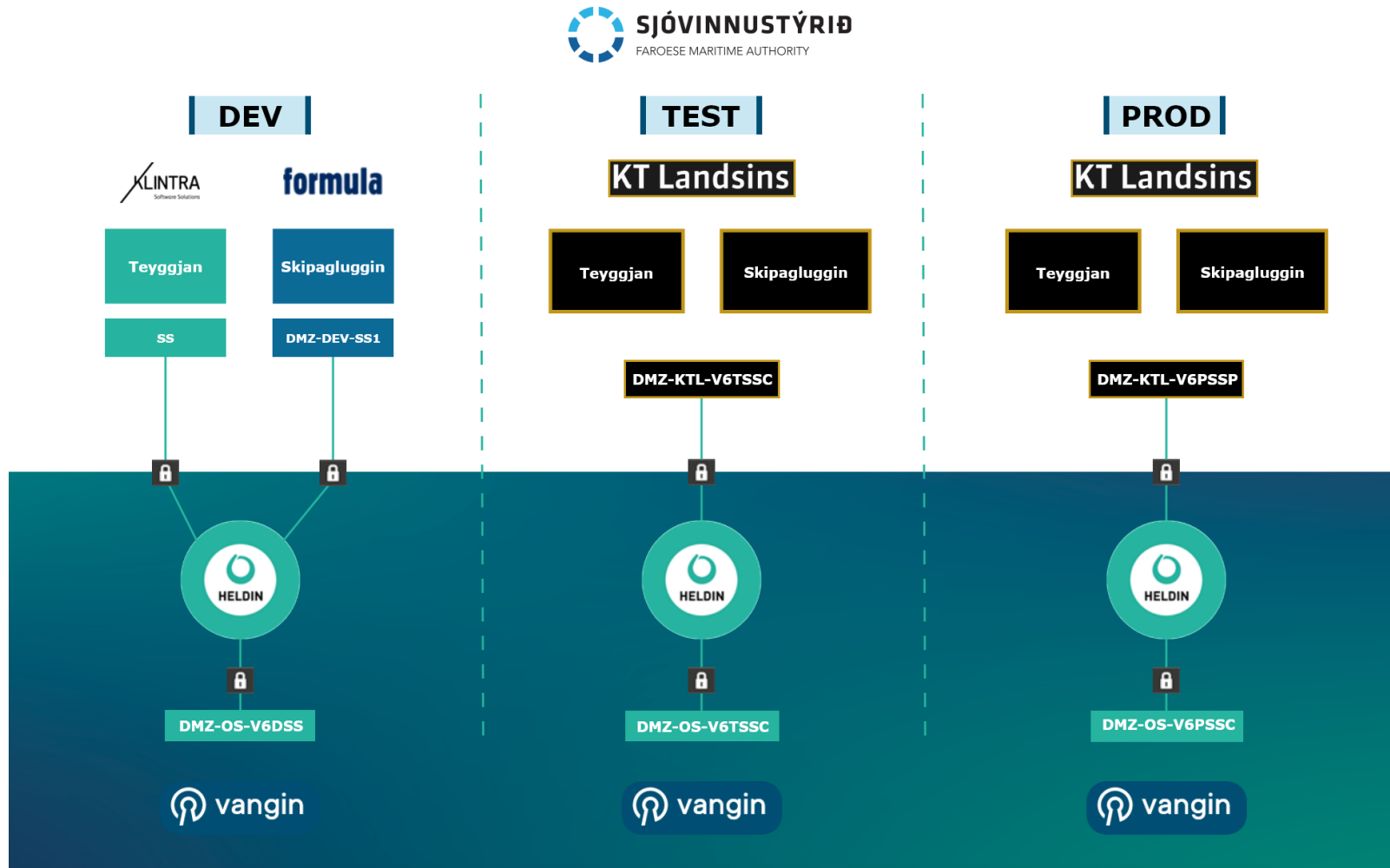
Vangin hevur 3 umhvørvir



Tænastuveitari kann hava 2 umhvørvir

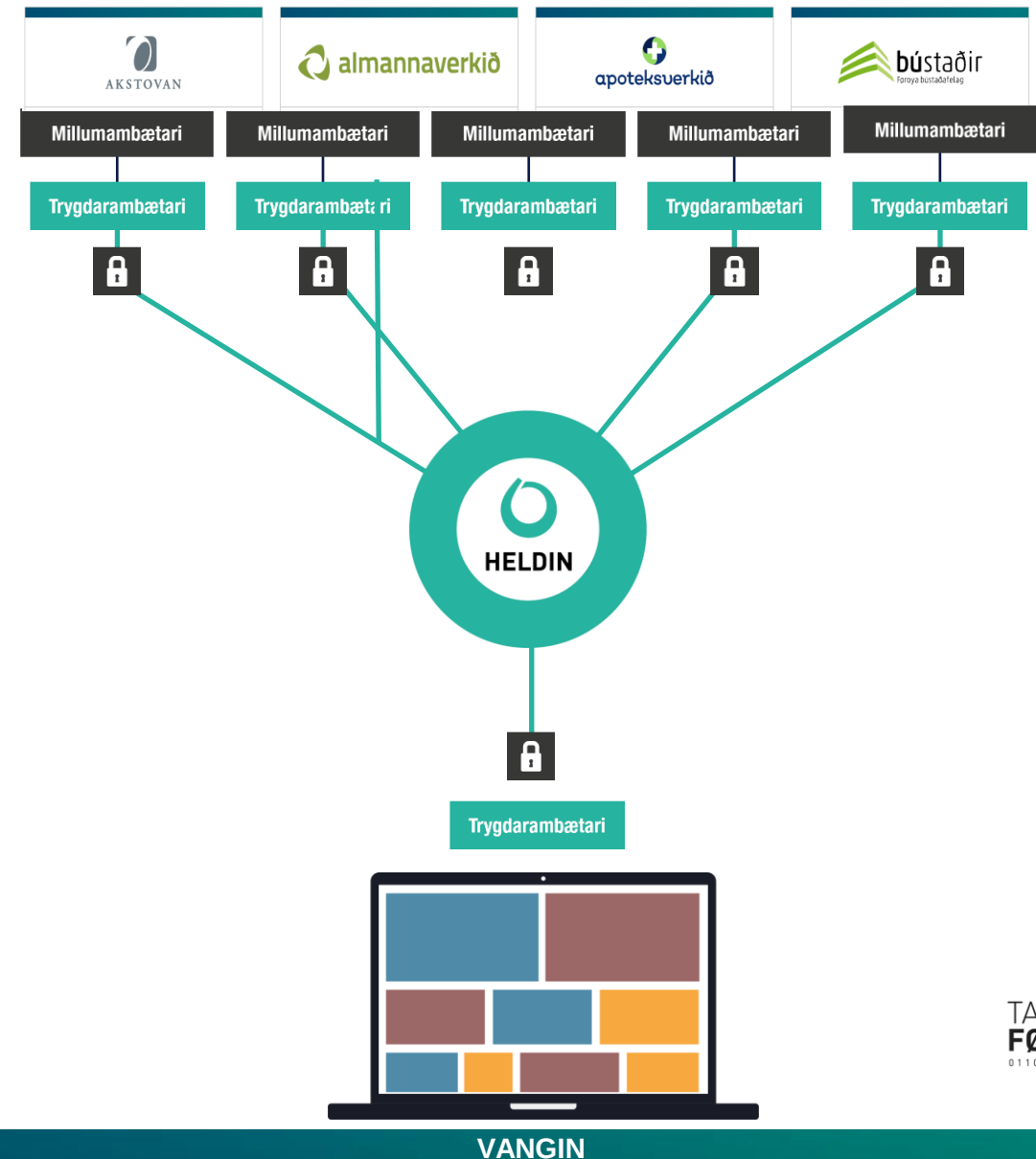


Tænastuveitari hjá fleiri KT veitarum



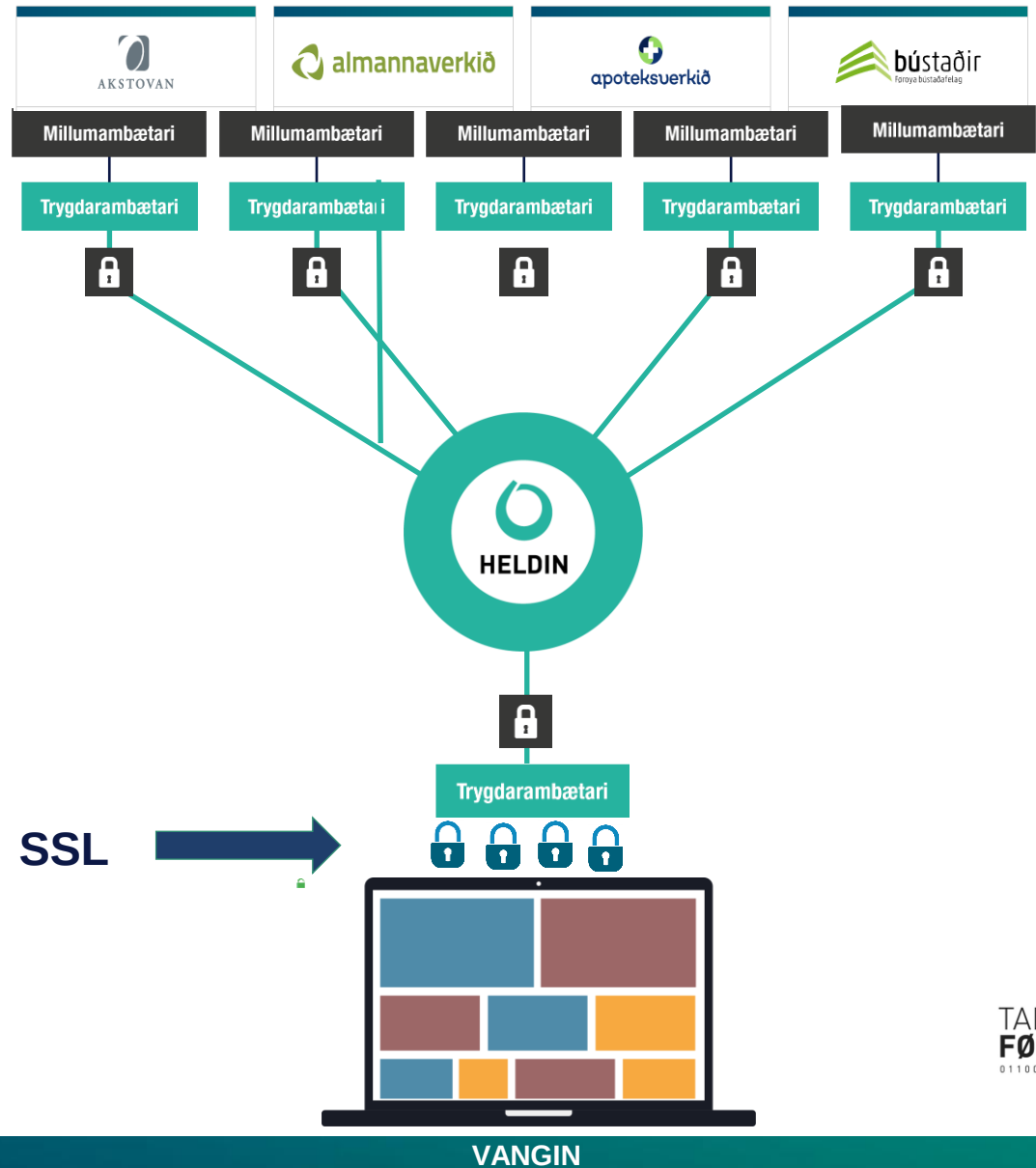
Navnastandardur hjá Vanganum á Heldini

- Góður navnastandardur hjálpir sera nógv í umsiting
- Økir um trygdina
- Luttakari: Gjaldstovan v-tal 343269
- Vangin er skrásett subsystem hjá Gjaldstovuni
- Vangin nýtir ein “unique” brúkara pr. tænaustveitara, fyri at hjálpa uppá umsitingina
- Dømi
- FO-DEV/GOV/343269/vng-folk
 - Vng-folk
 - Vng-tk
 - Vng-suk



SSL Sertifikatir

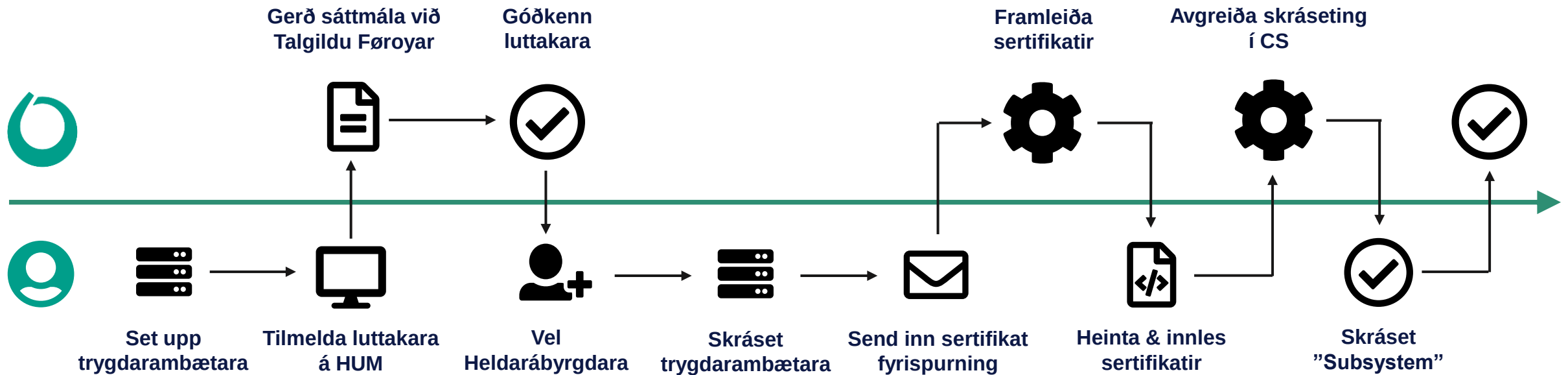
- SSL sertifikat millum Vangan og Vanga trygdarambætarin
- Sertifikat pr. tænaðstuveitara / brúkara



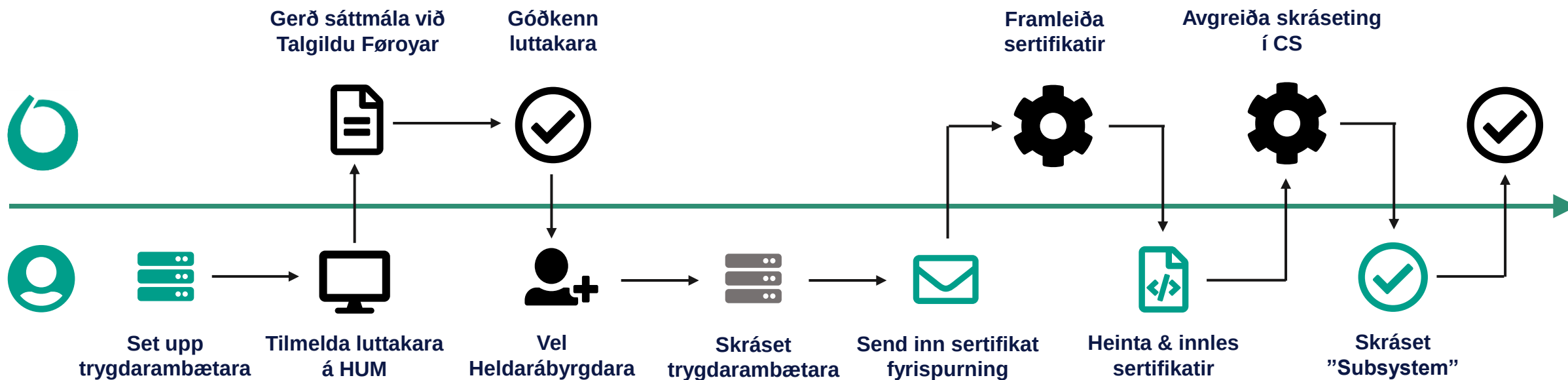
Praktiskt – Rita inn á demo trygdarambætara

- Loyniorð til wifi (Guest): landsnet2022
- url til trygdarambætara
 - <https://heldin-demo.magnussen.fo:4000>
- Brúkaranavn og loyniorð til trygdarambætara
 - heldin-demo/demo2022

Umsiting av trygdarambætarum



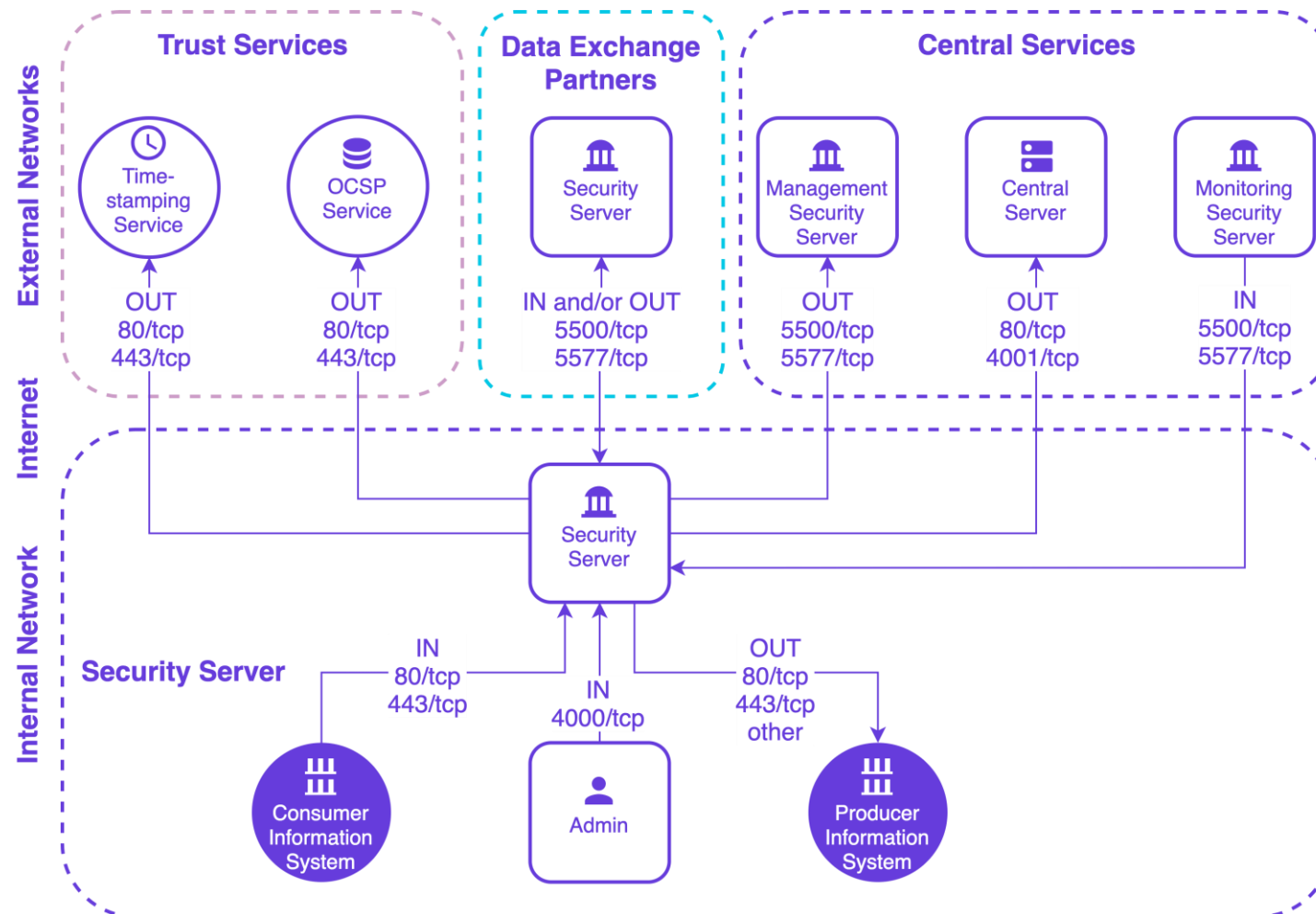
Umsiting av trygdarambætarum



Uppsetan av trygdarambætara – Uppsetan

- Installera trygdarservara sambært [vegleiðing](#)
 - Ubuntu 18.04 LTS og 20.04 LTS eru supporterað í lötuni
 - Minimum 10GB disk 4 GB RAM, og 1 CPU core
 - Velja logging "addon" frá
- Set up trygdarservara sambært [vegleiðing](#)
 - Public IP & DNS
 - Set upp "firewall" sambært vegleiðing
 - Importera Anchor fílu eftir umhvørvið ([Dev](#), [Test](#), [Prod](#))
 - Vel tíðarstempul tænastu

Uppsetan av trygdarambætara – Uppsetan



Uppsetan av trygdarambætara – Uppsetan

- Testa at portur eru opin við at brúka curl
 - Ocspp tænastu
 - Timestamping tænastu
 - Ekstern atgongd til egnan servara (5000)

Uppsetan av trygdarambætara - Sertifikatir

- Gerð CSR
 - Auth. Sertifikat
 - Sign. Sertifikat
- Gerð sertifikat fyrirspurning á HUM
- Heinta sertifikatir frá HUM
- Innles sertifikatir á trygdarambætaran

Uppsetan av trygdarambætara – Skráset KT skipan (Subsystem)

Add subsystem

Specify the code of the subsystem to be added.

If the subsystem is already existing, you can select it from the Global list.

SELECT SUBSYSTEM

Member Name  Føroya Gjaldstova

Member Class  GOV

Member Code  343269

Subsystem Code 

The Subsystem Code field is required

Register subsystem ☒

CANCEL

ADD SUBSYSTEM

Uppsetan av trygdarambætara – Skráset vevtænastu

hello-world (subsystem)

Unregister

Service

+ Add REST

+ Add WSDL

▼ OPENAPI3 (http://192.168.1.226:8082/desc.json)

Last refreshed: 2022-09-20 13:50 [Refresh](#)

SERVICE CODE	URL	TIMEOUT
hello-world-rest	http://192.168.1.226:8082/	60

▼ WSDL (http://192.168.1.226:8083/wsdl/ConvertWSDL.wsdl)

Last refreshed: 2022-09-20 20:51 [Refresh](#)

SERVICE CODE	URL	TIMEOUT
getHelloWorld.v1	http://192.168.1.226:8083/DemoService.asmx	60
getTest.v1	http://192.168.1.226:8083/DemoService.asmx	60

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Uppsetan av trygdarambætara – Skráset vevtænastu

hello-world-rest

Service Parameters

Endpoints

Service URL

The URL where requests targeted at the service are directed

http://192.168.1.226:8082/

Timeout (s)

The maximum duration of a request to the service, in seconds

60

Verify TLS certificate

Verify TLS certificate when a secure connection is established

☐

Save

Access Rights

Remove All

Add subjects

MEMBER NAME / GROUP DESCRIPTION	ID / GROUP CODE	TYPE	ACCESS RIGHTS GIVEN	
SP/F B. Magnussen	FO-TST:COM:651338:heldin-demo-client	SUBSYSTEM	2022-09-20 20:53	Remove
SP/F B. Magnussen	FO-TST:COM:651338:heldin-demo-client-https	SUBSYSTEM	2022-09-20 16:44	Remove

Close

Uppsetan av trygdarambætara – Skráset vevtænastu

hello-world-rest

Service Parameters

Endpoints

Add Endpoint

HTTP REQUEST METHOD	PATH	
GET	/Test	Access Rights
GET	/HelloWorld	Access Rights

Uppsetan av trygdarambætara – Skráset vevtænastu

getHelloWorld.v1

Apply to all in WSDL

Service URL

The URL where requests targeted at the service are directed

http://192.168.1.226:8083/DemoService.asmx

Timeout (s)

The maximum duration of a request to the service, in seconds

60

Verify TLS certificate

Verify TLS certificate when a secure connection is established

Save

Access Rights

Remove All

Add subjects

MEMBER NAME / GROUP DESCRIPTION	ID / GROUP CODE	TYPE	ACCESS RIGHTS GIVEN	
SP/F B. Magnussen	FO-TST:COM:651338:heldin-demo-client	SUBSYSTEM	2022-09-20 20:51	Remove
SP/F B. Magnussen	FO-TST:COM:651338:heldin-demo-client-https	SUBSYSTEM	2022-09-20 20:51	Remove

Close

Uppsetan av trygdarambætara – consumer

heldin-demo-client (subsystem)

Unregister

Connection type

HTTPS

Connection type for servers in service provider role is set in the Services tab by the service URL (http/https).

Information System TLS certificate

+ Add

Certificate Hash (SHA/1)

4B:EA:A9:2C:CA:BB:11:55:84:18:12:68:20:78:A7:1A:69:15:75:A6

Security Server certificate

Certificate Hash (SHA/1)

4A:8A:90:F9:F0:AC:43:9C:13:69:4E:0A:2F:DC:36:FB:EC:CF:1E:E6

Export

Uppsetan av trygdarambætara – ssh

- Brúkarastýring
 - Rollir
- Loggar
 - Arkiv interval
 - Upprudding av log arkiv
- Backup
 - Config backup (uppsetan, sertifikatir v.m.)
 - Servara backup
- Monitorering
 - Halda eyga við ram/diskpláss/cpu v.m.

Eftirhyggja tekniskar loggar - ssh

Service	Purpose	Log
xroad-addon-messagelog	Message log archiving and cleaning of the message logs	/var/log/xroad/messagelog-archiver.log
xroad-confclient	Client process for the global configuration distributor	/var/log/xroad/configuration_client.log
xroad-proxy	Message exchanger	/var/log/xroad/proxy.log
xroad-signer	Manager process for key settings	/var/log/xroad/signer.log
xroad-proxy-ui-api	Management UI and REST API	/var/log/xroad/proxy_ui_api.log and /var/log/xroad/proxy_ui_api_access.log
xroad-monitor	Environmental monitoring	/var/log/xroad/monitor.log
xroad-opmonitor	Operational monitoring	/var/log/xroad/op-monitor.log

Eftirhyggja samskiftis loggar – ssh/postgres

- Samskifti sum ikki er arkivera liggur í databasuni
- Arkivera samskifti liggur í
 - /var/lib/xroad

Pin kota

- Tá serverin verður "re-bootaður" skal pin kotan inntøppast

Feilkotir

- Server.ClientProxy....
 - Feilurin liggur hjá tær
- Server.ServerProxy...
 - Feilurin liggur hjá vevtænastu veitara
- How to Interpret Security Server Proxy Error Messages?
 - <https://nordic-institute.atlassian.net/wiki/spaces/XRDKB/pages/4915550/How+to+Interpret+Security+Server+Proxy+Error+Messages>

Vælkomin á verkstovu um Heldina (Dagur 2)

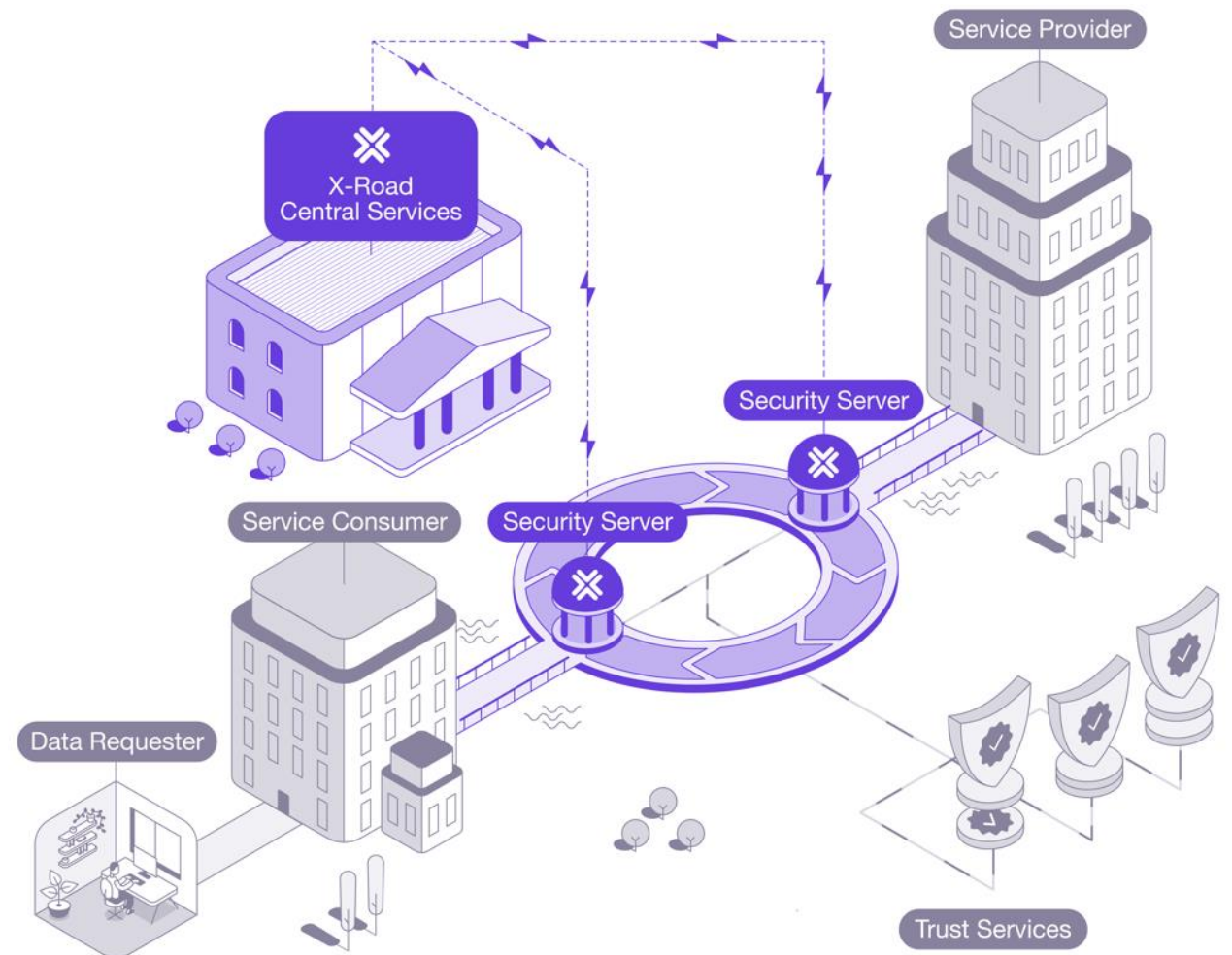
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Skrá – Dagur 2

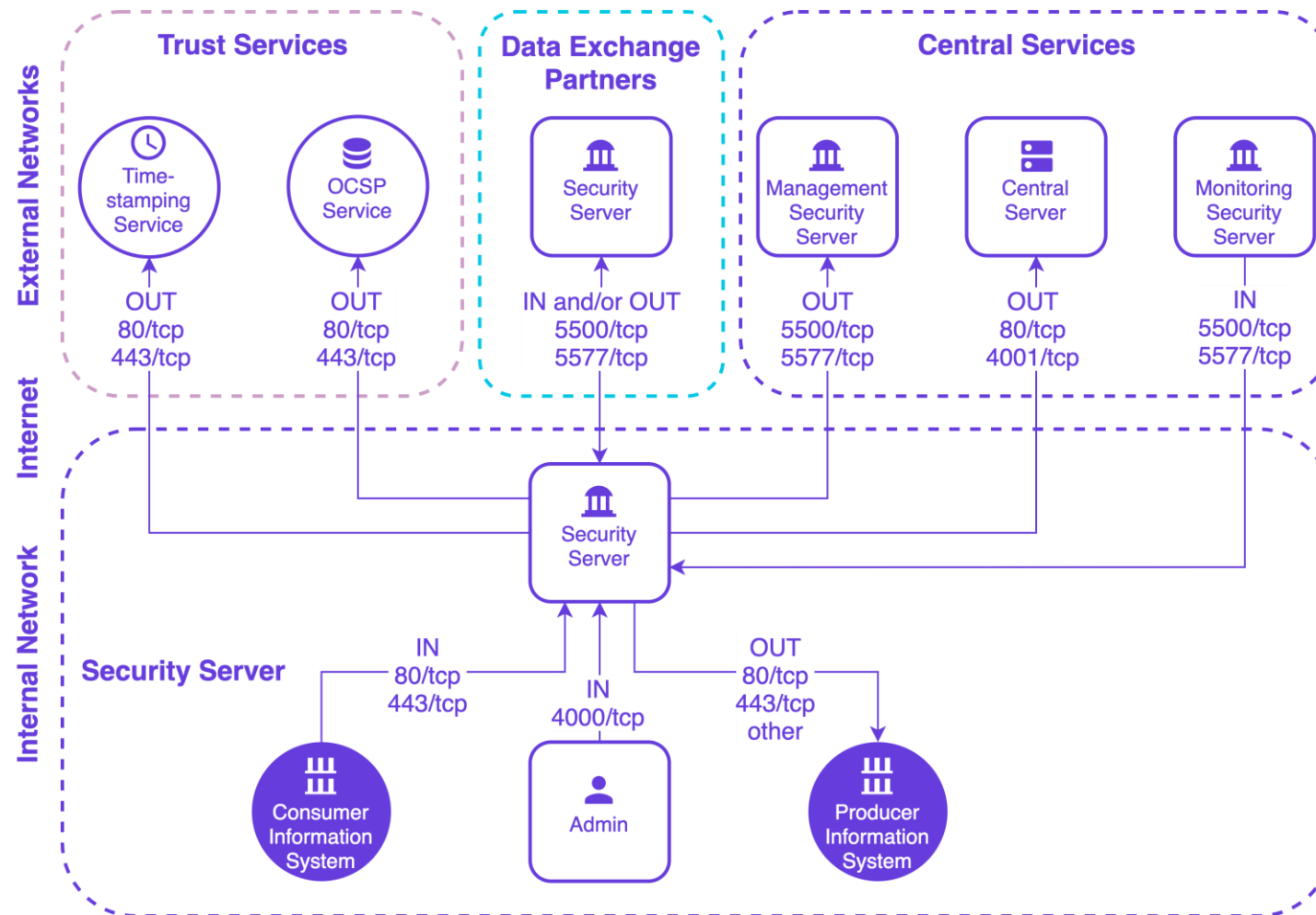
09:00	Intro
09:15	Menning av vevtænastum - Arkitekturur
10:00	Steðgur
10:10	Menning av vevtænastum - Demo
11:00	Steðgur
11:10	Menning av vevtænastum - Nýtsla við REST/SOAP
12:00	Døgurðasteðgur
13:00	Menning mótvegis FOLK
13:50	Steðgur
14:05	Menning mótvegis FOLK
15:00	Liðugt

Menning av vevtænastum - Arkitektúrur

- Central Service
- Security Server
- Information System
- Time-Stamping Authority (TSA)
- Certificate Authority (CA)



Uppsetan av trygdarambætara – Uppsetan



Uppsetan av trygdarambætara – Skráset KT skipan (Subsystem)

Add subsystem

Specify the code of the subsystem to be added.

If the subsystem is already existing, you can select it from the Global list.

SELECT SUBSYSTEM

Member Name  Føroya Gjaldstova

Member Class  GOV

Member Code  343269

Subsystem Code 

The Subsystem Code field is required

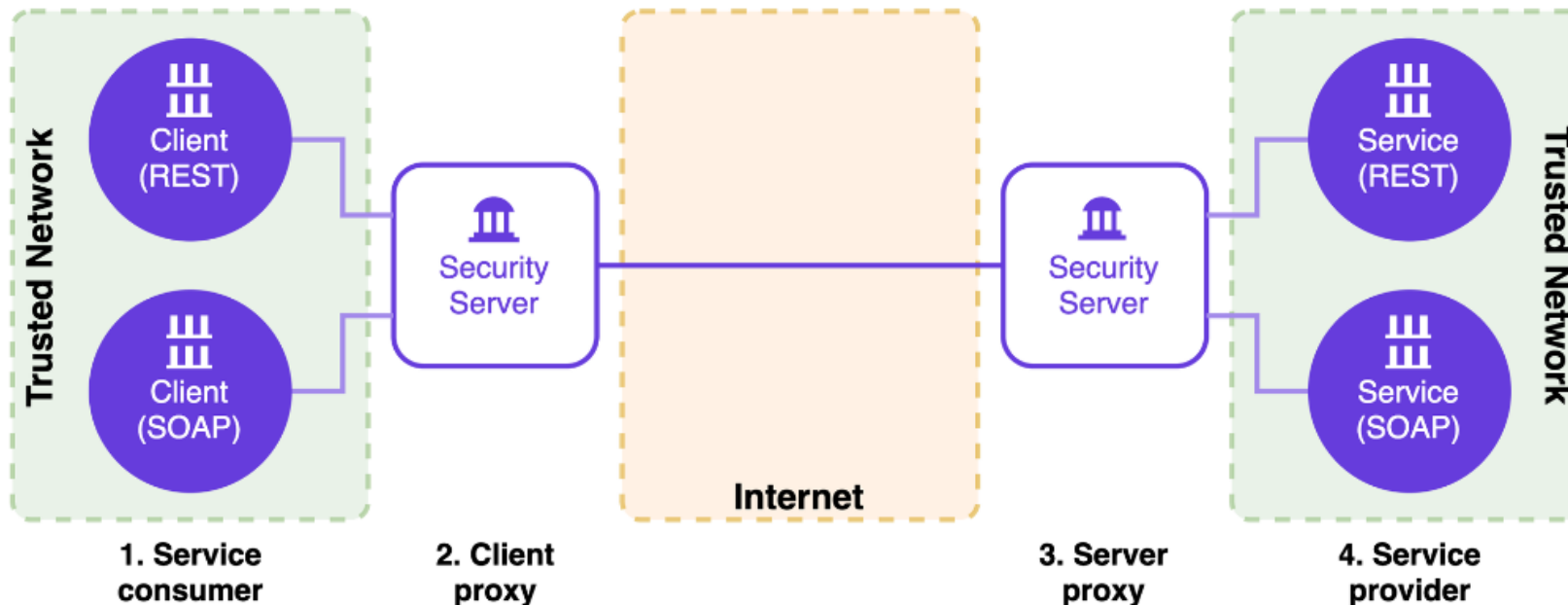
Register subsystem ☒

CANCEL

ADD SUBSYSTEM

Feilboð – Hvar liggur feilurin?

1. Service consumer
2. Consumer-side Security Server (client proxy)
3. Provider-side Security Server (server proxy)
4. Service provider.



Feilkotir

- Server.ClientProxy....
 - Feilurin liggur hjá tær
- Server.ServerProxy...
 - Feilurin liggur hjá vevtænastu veitara
- How to Interpret Security Server Proxy Error Messages?
 - <https://nordic-institute.atlassian.net/wiki/spaces/XRDKB/pages/4915550/How+to+Interpret+Security+Server+Proxy+Error+Messages>

Menning av vevtænastum

- Menning eftir vanligum standardum
 - REST
 - Gott at brúka OpenAPI service description
 - SOAP
 - X-road soap header skal verða í svarinum
- Nýggjar tænaastur skulu helst mennast eftir REST standard

Menning av vevtænastum

- REST
 - PUT
 - GET
 - POST
 - DELETE
- Fyrispurningar skulu hava ein "X-Road-Client" header

Menning av vevtænastum

- SOAP
 - Vevtænasta (wsdl) skal innihalda SOAP header

```
<soapenv:Header>
  <xro:service id:objectType="SERVICE">
    <iden:xRoadInstance>-</iden:xRoadInstance>
    <iden:memberClass>-</iden:memberClass>
    <iden:memberCode>-</iden:memberCode>
    <iden:subsystemCode>-</iden:subsystemCode>
    <iden:serviceCode>-</iden:serviceCode>
    <iden:serviceVersion>-</iden:serviceVersion>
  </xro:service>
  <xro:client id:objectType="SUBSYSTEM">
    <iden:xRoadInstance>-</iden:xRoadInstance>
    <iden:memberClass>-</iden:memberClass>
    <iden:memberCode>-</iden:memberCode>
    <iden:subsystemCode>-</iden:subsystemCode>
  </xro:client>
  <xro:id>1</xro:id>
  <xro:protocolVersion>4.x</xro:protocolVersion>
</soapenv:Header>
```

Menning av vevtænastum - klient

- Menning av vevtænastu klientum

- REST

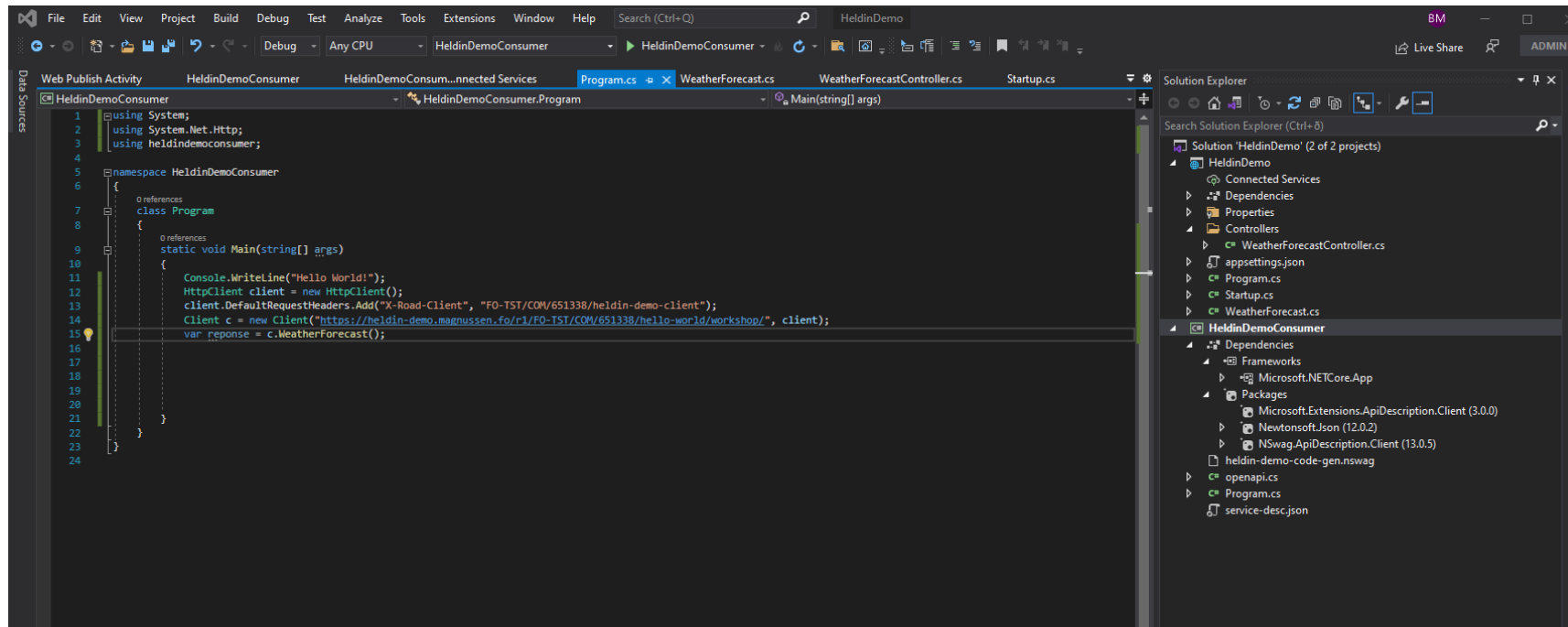
- Downloada service description
 - innlesa service description

- SOAP

- Downloada WSDL
 - Innlesa wsdl

- Byrja við at testa í t.d. Postman ella SOAP UI

Menning av vevtænastum - DEMO



```
1 using System;
2 using System.Net.Http;
3 using heldindemoconsumer;
4
5 namespace HeldinDemoConsumer
6 {
7     0 references
8     class Program
9     {
10         0 references
11         static void Main(string[] args)
12         {
13             Console.WriteLine("Hello World!");
14             HttpClient client = new HttpClient();
15             client.DefaultRequestHeaders.Add("X-Road-Client", "FO-TST/COM/651338/heldin-demo-client");
16             Client c = new Client("https://heldin-demo.magnussen.fo/r1/FO-TST/COM/651338/hello-world/workshop/", client);
17             var reponse = c.WeatherForecast();
18         }
19     }
20 }
21
22
23
24
```

Solution Explorer (Ctrl+8)

- Solution 'HeldinDemo' (2 of 2 projects)
 - HeldinDemo
 - Connected Services
 - Dependencies
 - Properties
 - Controllers
 - WeatherForecastController.cs
 - appsettings.json
 - Program.cs
 - Startup.cs
 - WeatherForecast.cs
 - HeldinDemoConsumer
 - Dependencies
 - Frameworks
 - Microsoft.NETCore.App
 - Packages
 - Microsoft.Extensions.ApiDescription.Client (3.0.0)
 - Newtonsoft.Json (12.0.2)
 - NSwag.ApiDescription.Client (13.0.5)
 - heldin-demo-code-gen.nswag
 - openapi.cs
 - Program.cs
 - service-desc.json

Menning av vevtænastum - DEMO

- Mannagongd
 - Nýtt Visual Studio projekt
 - Web API
 - Template inniheldur endapunkt "WeatherForecast"
 - Hetta er klárt at leggja út
 - Leggja inn OpenAPI dokumentatión (Swashbuckle)
 - [Leinkja til guide](#)
 - "Publish" til web servara
 - Innlesa tænaustu á trygdarambætara og geva atgongd
- Consumera tænaustu
 - Konvertera Open API service description til klient kotu

Menning av vevtænastum - klient

- Metadata services
 - [REST](#)
 - [SOAP](#)
- Byrja við at testa í t.d. Postman ella SOAP UI
- listClients – allir luttakarir og subsystems (SOAP / REST)
- getWsdI (SOAP)
- getOpenApi (REST)

Menning av vevtænastum - Metadata

- listClients – allir luttakarir og subsystems (SOAP / REST)
- getWsdI (SOAP)
- getOpenApi (REST)

Menning av vevtænastum

- Dømi í postman
 - ListClients
 - GetOpenAPI
 - ListMethods
 - GetWsdI
 - Test metódir – helloworld
- Dømi í SOAP UI
 - Test metódir - helloworld

Menning mótvegis FOLK

SOAP Webservices :-)

Security Server:

- [Https://heldin-demo.magnussen.fo](https://heldin-demo.magnussen.fo)

Subsystem:

- FO-TST:COM:651338:folk-community-demo

Services:

- FO-TST:GOV:405388:us-folk-v2
- FO-TST:GOV:405388:us-folk-v3

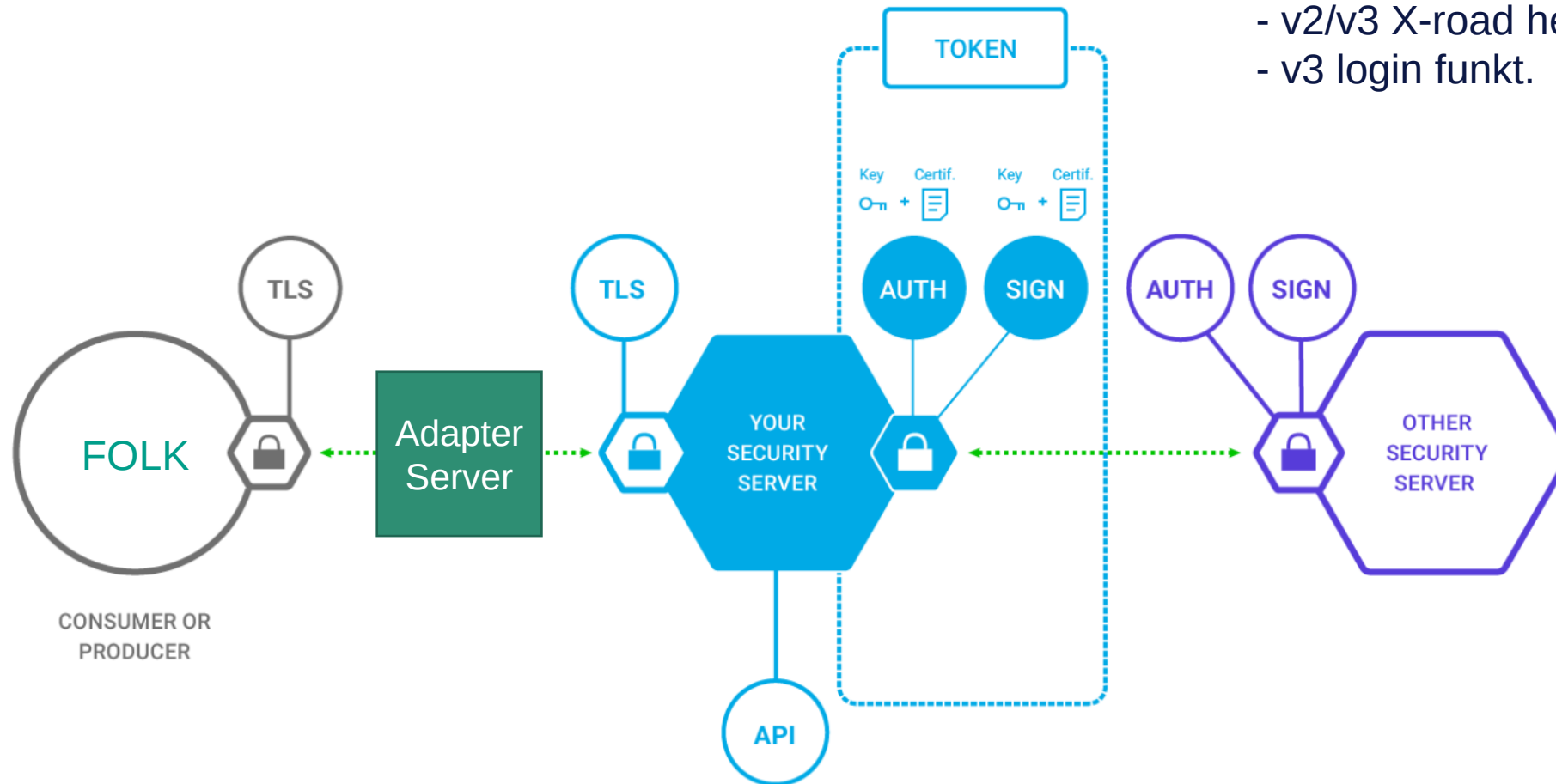
Menning mótvegis FOLK

- FOLK
 - KT-skipan hjá Landsfólkayvirlitinum
 - Verður umsitin av Umhvørvisstovuni
 - Ment í 2010 – Silverlight front-end tøkni
- FOLK á Heldini
 - Ein skrá - sleppa undan duplimum skrásetingum
 - Verður brúkt nógv, serligt fokus eftir Vangin kom
 - ~ 273.000 innritanir pr. 31/8-2022 (service/UI)
 - ~ 5.000.000 fyrispurningar (service)

Menning mótvegis FOLK

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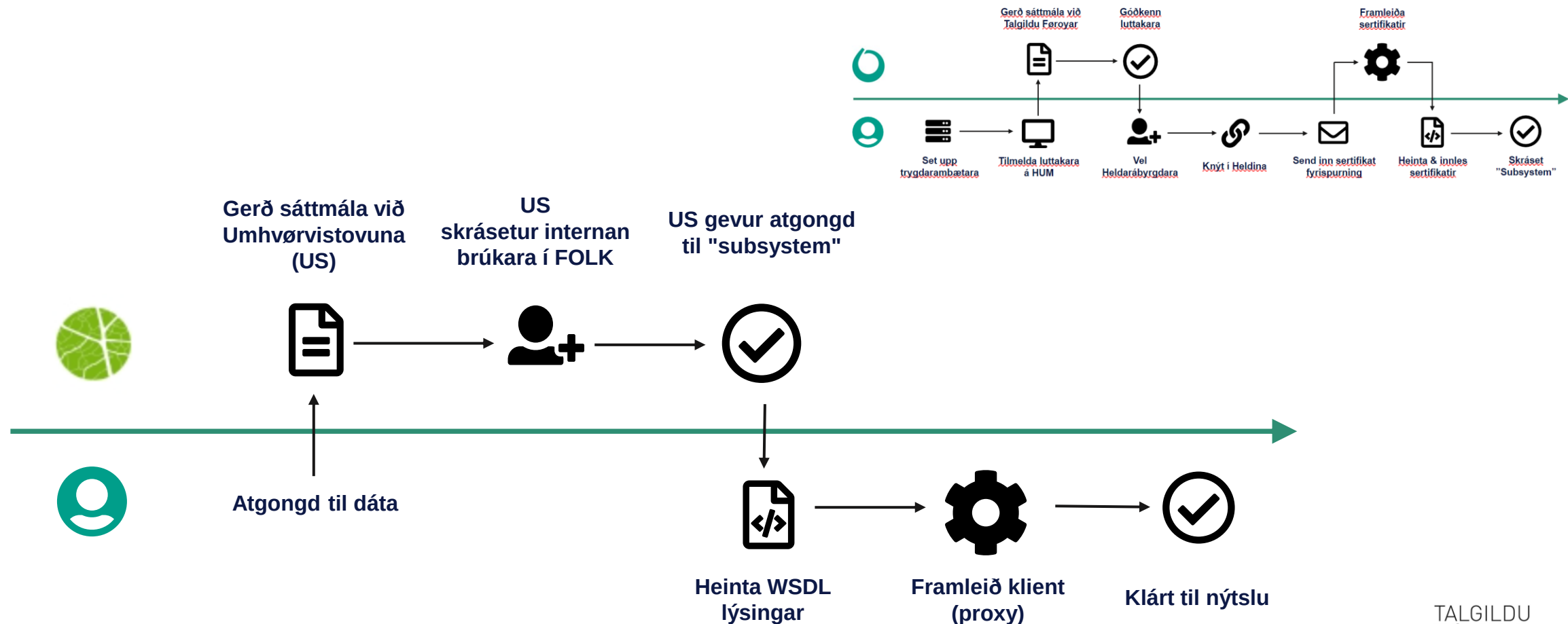
Menning móttvegis FOLK



Adapter server:

- v2/v3 X-road headers
- v3 login funkt.

Menning mótvegis FOLK - Mannagongdin



Menning móttvegis FOLK

- Atgongd til persónsupplýsingar
 - Almennir stovnar (tryggingarfeløg, bankar inkl.)
 - Atgongd til allar upplýsingar, tørvur er á, fyri at útinna virki sítt
 - Partafeløg, smápartafeløg, grunnar, fyrirøkur og aðrir lögfrøðiligir og líkamligar persónar
 - Navn, Bústaður, Starv, Frámerki (marknaðarføring), Deyður, Horvin, Fráflyting, Tilknyttisbústaður, Sjálvræði

Menning móttvegis FOLK

- Hvussu kunnu persónar eyðmerkjast
 - Persónstali (p-tali)
 - Navni (núverandi ella fyrrverandi) **og** føðingardegi
 - Navni (núverandi ella fyrrverandi) **og** bústaði
- Um fleiri persónar verða eyðmerktir við hesum, fæst einki úrslit
- Vevtænastur at spyrja við
 - **Fyri V3:** GetPerson[Small | Medium]By[NameAndAddress | NameAndDateOfBirth | PrivateId | ByPta | ByPublicId]
 - **Fyri V2:** GetPeoplePublicInfo | GetPerson

Menning móttvegis FOLK

- Communities (bólkar)
 - Alt føroyar
 - Kommunur
 - Egin skrá (t.d. kundaskrá e.l.)
- Vevtænastur at spyrja við
 - **Fyri V3:** AddPersonToCommunityBy[NameAndAddress | NameAndDateOfBirth], RemovePersonFromCommunity, Get[Private | Public]Changes
 - **Fyri V2:** AddPeopleToCommunity, RemovePeopleFromCommunity, GetCommunityPeopleIds

Menning móttvegis FOLK

US-FOLK-V2

- Subsystem: FO(-TST):GOV:405388:us-folk-v2
- Umfatandi vevtænastur, uppunálíga mentar til UI
 - Login
 - GetPerson
 - GetPeoplePublicInfo
 - GetCommunityPeopleIds
 - AddPeopleToCommunity
 - RemovePeopleFromCommunity
- Hava m.a. møguleika at veita søgulígar upplýsingar

Menning móttvegis FOLK

US-FOLK-V3

- Subsystem: FO(-TST):GOV:405388:us-folk-v3
- Minni í vavi – fleiri í tali
- Eru mentar partvís fyrri lættari nýtslu
 - C# / Java client program
 - Eisini møguligt at brúka vevtænastur beinleiðis (WSDL)

Menning mótvegis FOLK

US-FOLK-V3

- Eingin innritan – atgongd knýtt at vevtænastubrúkara (subsystem)
- Skjótari at koma ígongd - eingin kota (client proxy) nýtist at genererast - Bílagdur av TF
- Github repositories
 - .Net: <https://github.com/umhvorvisstovan/folkv3-api-dotnet>
 - .Net dømi: <https://github.com/umhvorvisstovan/folkv3-api-sample-dotnet>
 - Java: <https://github.com/umhvorvisstovan/folkv3-api-java>
 - Java dømi: <https://github.com/umhvorvisstovan/folkv3-api-sample-java>

Menning móttvegis FOLK

- Samanbera v2/v3 tænaustu, GetPerson
 - V3 er reinari
 - V2 hevur nógvar Include* parametrar
- Adapter services

Menning mótvegis FOLK

- **Amboð**

- SoapUI
- Postman

- **Leinki**

- <https://umhvorvisstovan.github.io/FOLK-clients/>
- <https://x-road.global/resources>
- <https://x-road.thinkific.com/>

Takk fyri