DIGG — Myndigheten för Digital Förvaltning — Agency for Digital Government

Martin Völcker
DIGG
Martin.volcker@digg.se

"A sustainable welfare society that meets people's future needs"
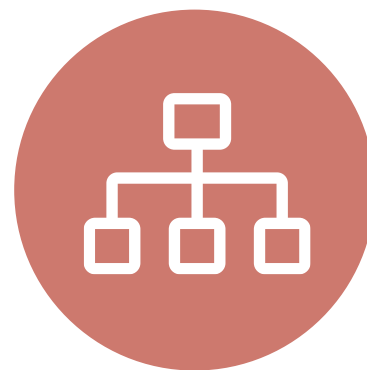
DIGG's vision

DIGG

Our mission

We follow up and analyse the digitalisation of society.

We help the government make well-informed decisions.

We are responsible for Sweden's digital infrastructure.

National plattform for eDelivery (DIGG plattform owner)

- Need of standardisation and support of different patterns in Sweden
  - Syncron pattern
  - Asyncron pattern
- To support Secure Digital communication (SDK)
- To be able to support different requirements and federations in future
- Be able to handle structured and unstructed data
- Public and private suppliers creating the plattform (accesspointsoperator
- Central services from EU-com (SML) and DIGG (SMP, Certpub)

National plattform eDelivery

- Management eDelivery plattform
- Framework (1.1)
  - Rules
  - Guidelines
  - Technical specifications
  - Codelist
  - Components (SMP, certpub)
  - IT environments (test and prod)
- Legal model and agreements (contract)
- Support
- Test
  - Validation, test specifications

- Trusted list
- Certifikatspolicy and support
- Implementation support
- Approval of Accesspoints operator
- Incident/ problem management
- Review/control
- Two transport profiles for different security levels

Plattform support different requirements and different federations

To get framework for eDelivery plattform: info@digg.se

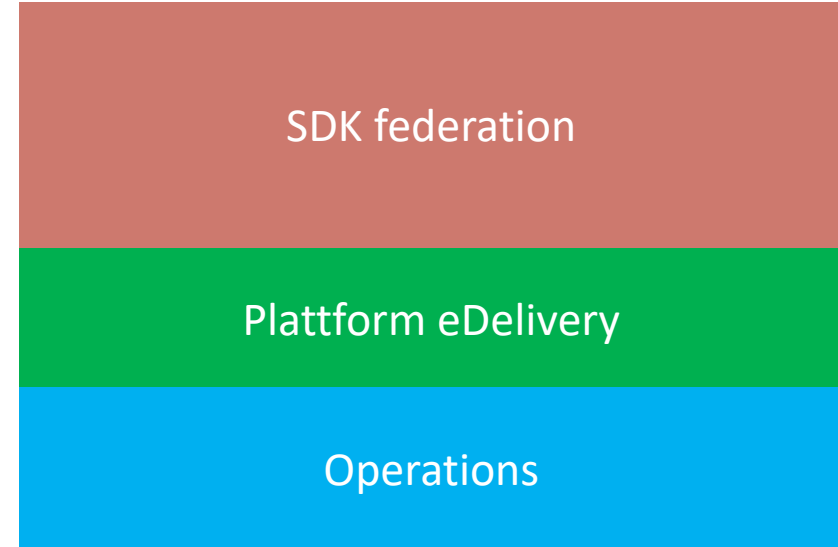DIGG **MYNDIGHETEN FÖR DIGITAL FÖRVALTNING** Agency for Digital Government

Frameworks

A Framework for participants (SDK)

B Framework for Suppliers and messagesystems

C Framework plattform eDelivery (for federations and Accesspoints operators)

D Framework for operations

| SDK federation |
| Plattform eDelivery |
| Operations |

MYNDIGHETEN FÖR
DIGITAL FÖRVALTNING
Agency for Digital Government

Secure Digital Information (SDK)

- First named "Kill the faxmaschine"

- Respons to requirements of public sector to be able to communicate sensitive information between each other in a easy, secure and cost effective way. Even private companies financed by public sector are also included.

- Cooperations between public Agencies, Municipalities and Regions (health care).

- Big organisations and small organisations should be able to join the SDK federation

- Organisations should be able to implement own solutions or tender from suppliers.

- The architecture must have high interoparability to be able to handle different legacys for different organisations.

Why did SDK select to use eDelivery?

- Evaluated different solutions

- Main reasons for using eDelivery
  - Send and receive messages
  - Be able to handle unstructed- and structured data
  - All to all trust
  - Didnt want "spagetti" integration
  - Secure
  - EU – building block
  - Participant with different possibilitys

- Be able to scale
- Simplified testing
- Asyncron
- Independance to suppliers
- Dynamic adressering
- Be able to create new documenttypes
- Separatation between klient, messageexchange and accesspoint
- Private and public sector support plattform

SMP

DIGG developed a new SMP

- Separated administration and metadata respond

- High service levels

- Quick respons

- AP operator has "own" room for participants

- Cert pup (Participants write their own open key for funtioncertificate (O2O).
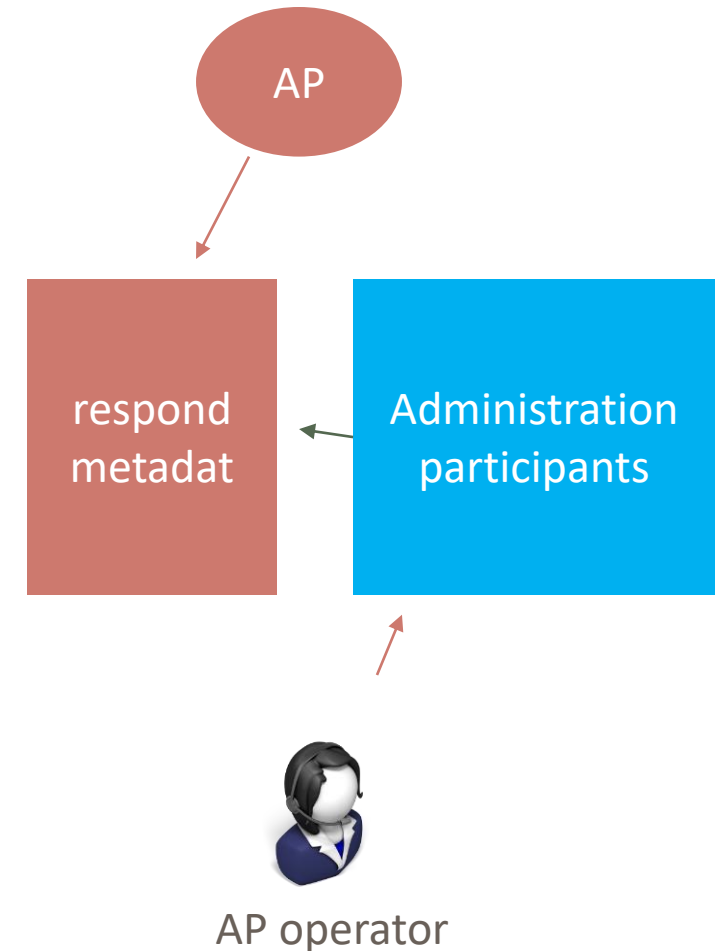
Secure Digital Information (SDK)

- SDK must be able to handle thousands of different usecases

- Small and bigg organsations can join SDK federation

- Easy to use

- Must be able to use simple or complex clients

- Must be able to evolve in future for new requirements and innovation

- Must comply to national and european laws and regulations.

- Must support trust lvl 3 (4 levels)

- Handle unstructured and structured data (start with unstructured data)

- Must be able to send to functions

- You can send to organisations nationally and to other functions withing you own organisations

- Based on trust between participants

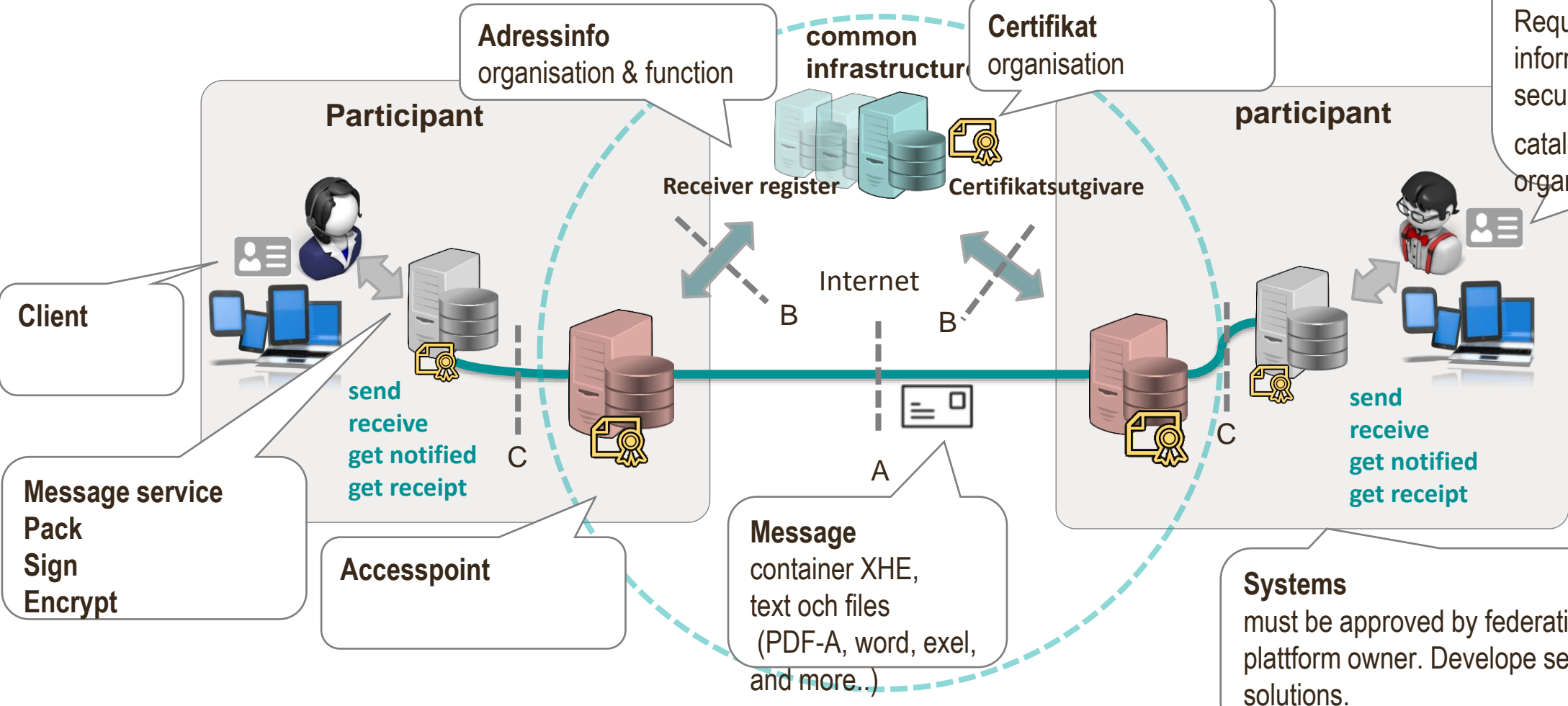- Send internationally in future?

Potential Participants SDK Sweden

- 290   Municipalities
- 21   Regions (Healthcare)
- 300   Agencys (all will not need SDK)
- 45 000   Private organisations financed by public sector (all will not need SDK)
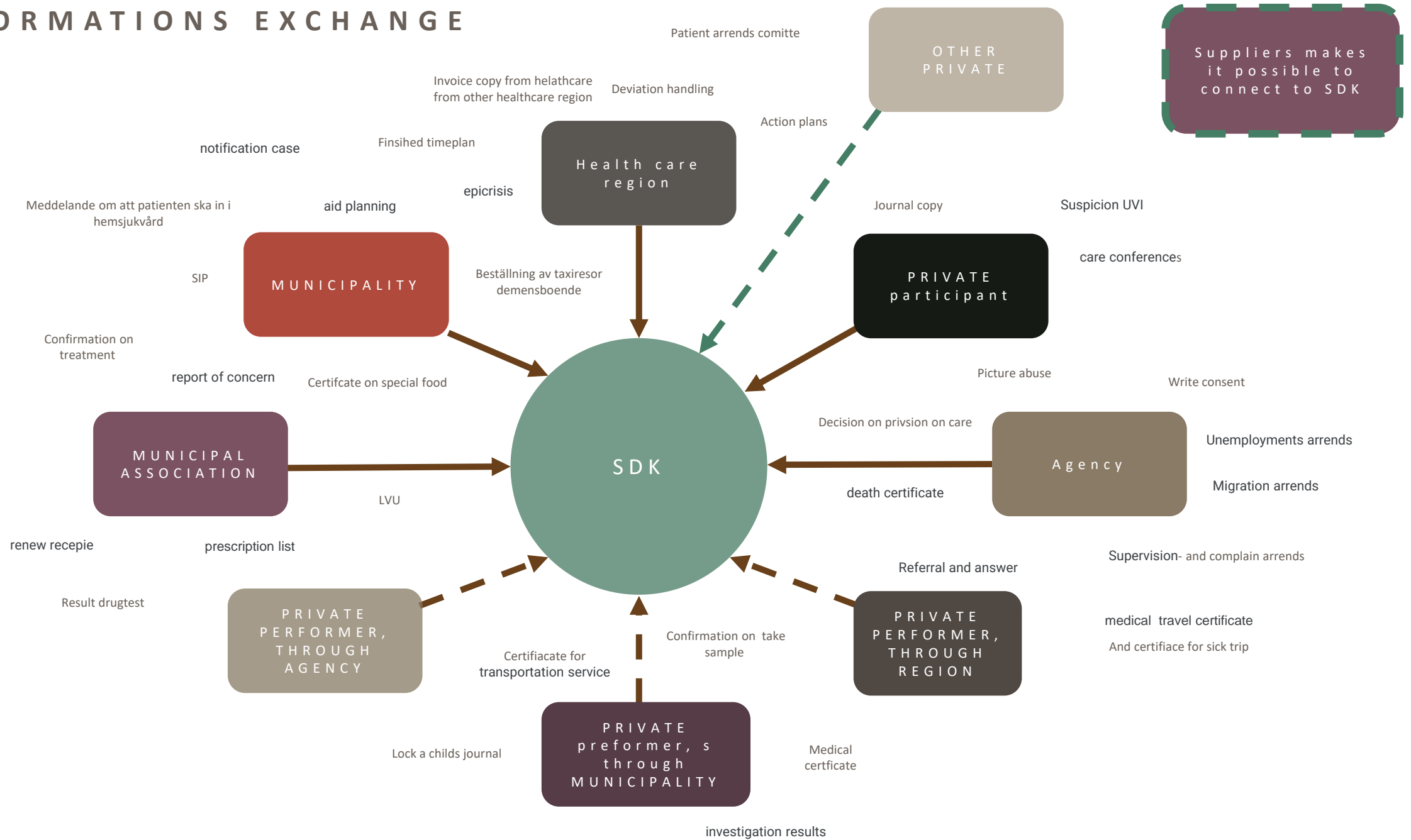
Principles for digital kommunikation

PrincEper & rules for trust
Informationsecurity, informations exchange, standards and technical specifications

Lokalt ansvar
Secure logg in (e-ID) and auctorisation for worker

Requirements on informations- och IT-security

catalog for workers and organisation

Adressinfo
organisation & function

common infrastructure

Certifikat
organisation

Participant

Receiver register   Certifikatsutgivare

participant

Internet

Client

B   B

C

C

**send
receive
get notified
get receipt**

**send
receive
get notified
get receipt**

**Message service
Pack
Sign
Encrypt**

Accesspoint

A

Message
container XHE,
text och files
(PDF-A, word, exel,
and more..)

Systems
must be approved by federation owner and plattform owner. Develope self or tender solutions.

INFORMATIONS EXCHANGE

Patient arrends comitte

OTHER PRIVATE

Suppliers makes it possible to connect to SDK

Invoice copy from helathcare from other healthcare region

Deviation handling

Action plans

notification case

Finsihed timeplan

Health care region

Meddelande om att patienten ska in i hemsjukvård

aid planning

epicrisis

Journal copy

Suspicion UVI

SIP

MUNICIPALITY

Beställning av taxiresor demensboende

PRIVATE participant

care conferences

Confirmation on treatment

report of concern

Certifcate on special food

SDK

Picture abuse

Write consent

Decision on privsion on care

Agency

Unemployments arrends

MUNICIPAL ASSOCIATION

LVU

death certificate

Migration arrends

renew recepie

prescription list

Supervision- and complain arrends

Result drugtest

PRIVATE PERFORMER, THROUGH AGENCY

Certifiacate for transportation service

Confirmation on take sample

PRIVATE PERFORMER, THROUGH REGION

Referral and answer

medical travel certificate

And certifiace for sick trip

Lock a childs journal

PRIVATE preformer, s through MUNICIPALITY

Medical certficate

investigation results

Cooperation and solution

- Modern transportlayer (national plattform based on eDelivery) including dynamic adressing

- Federations layer with clients and messaging service

- Based on standards

- Inera (IT supplier for Regions and Municipalities) Federation owner and DIGG plattform owner

- DIGG will take over SDK federation 2024.

- Solution in production, participants now starting to join SDK federation

- In future thousands of organisations will join

- SDK and eDelivery plattform are financed by Swedish Government

- Free market for suppliers (within EU)

Adressbok in SDK

- Central component

- User search for organisation

- Choose funktion within organisation (definied by receiver participant)

- Business codes

- Easy to use

Components

Federation owner (Inera)

- Adressbook
- Business codes
- SDK framework
- Test environments
- Agreements partcipant

Plattforms owner (DIGG)

- SMP
- SML
- Certpup
- Framework and rules plattform
- Test environments
- Agreements AP operator

Participants

- Message klient
- Message service
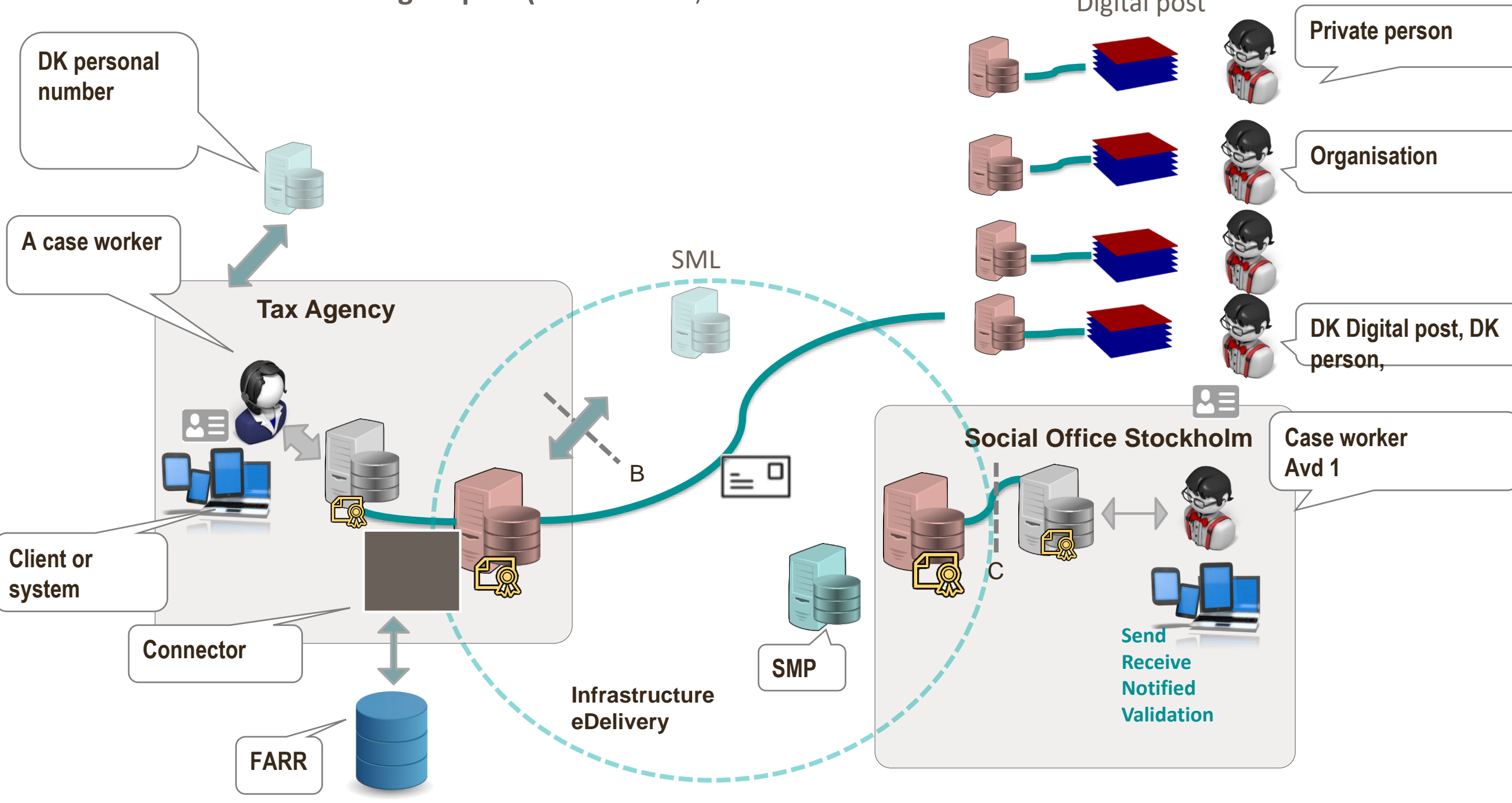- Internal rules
- Agreements supplier auctorisation

Why not connect Europe?

- SDK is in production
- Other countries can use framework, specifications and components to connect their organisations
- Every country has their own adressbook?
- Every country has one or several SMP?
- SDK document type locally, nationally and internationally
- Connect SDK to digital post?
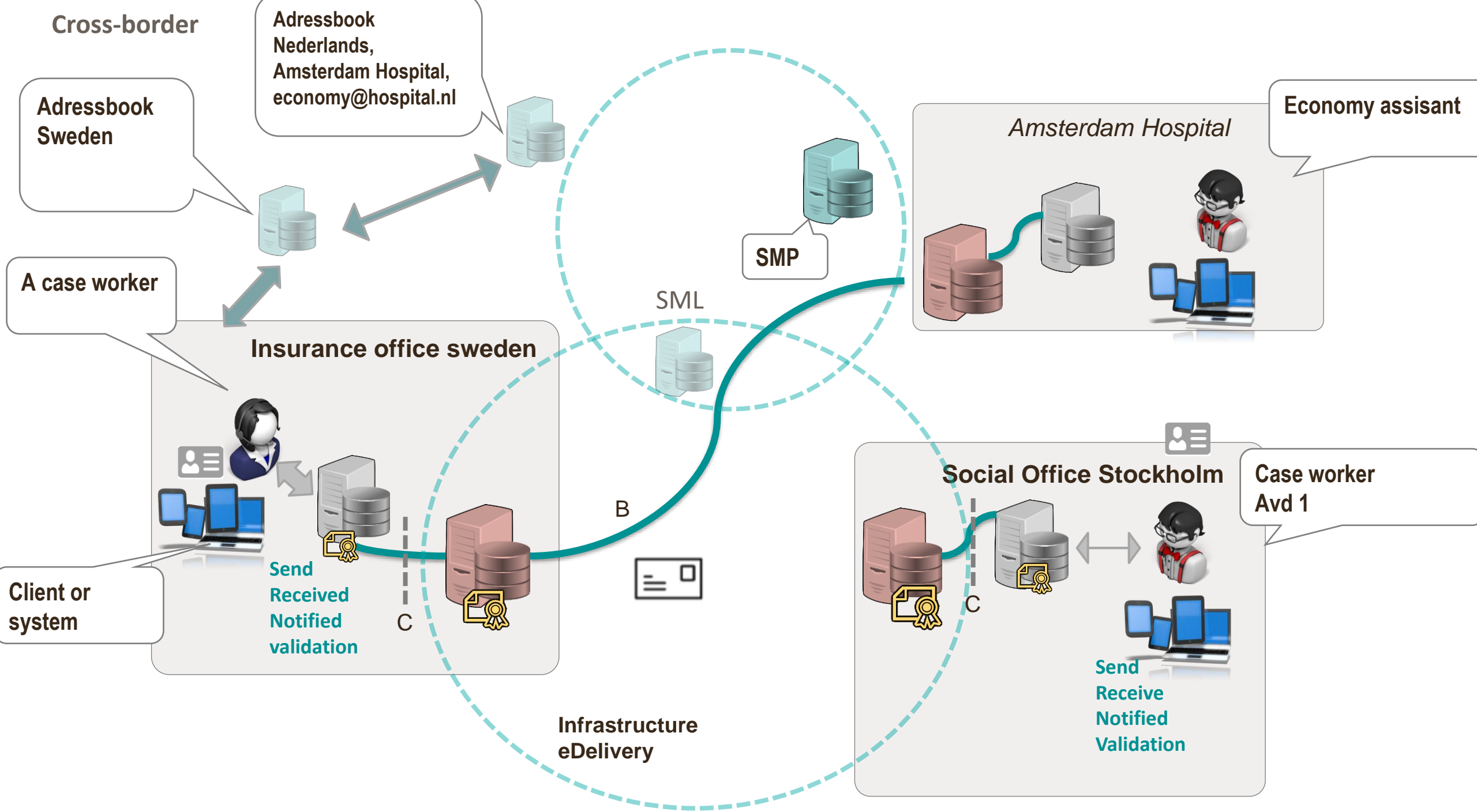
Contact us

Telephone: +46 (0)771-11 44 00, weekdays 9 a.m.–4 p.m.

Email: info@digg.se

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