

Se, de snakker sammen!



SIEMENS

Utfordringene

- Pasienten opplever ikke et enhetlig behandlingsløp
- Alt for lite samhandling
- Lite nasjonal harmonisering
- Manglende økonomiske insentiver
- Organiseringen av norsk helsevesen
- Sterkt person- og pasientvern

Invitasjon til bransjen

- Mld. St. 9
- KommIT
- Pasienter
- Klinikere
- Politikere
- Media

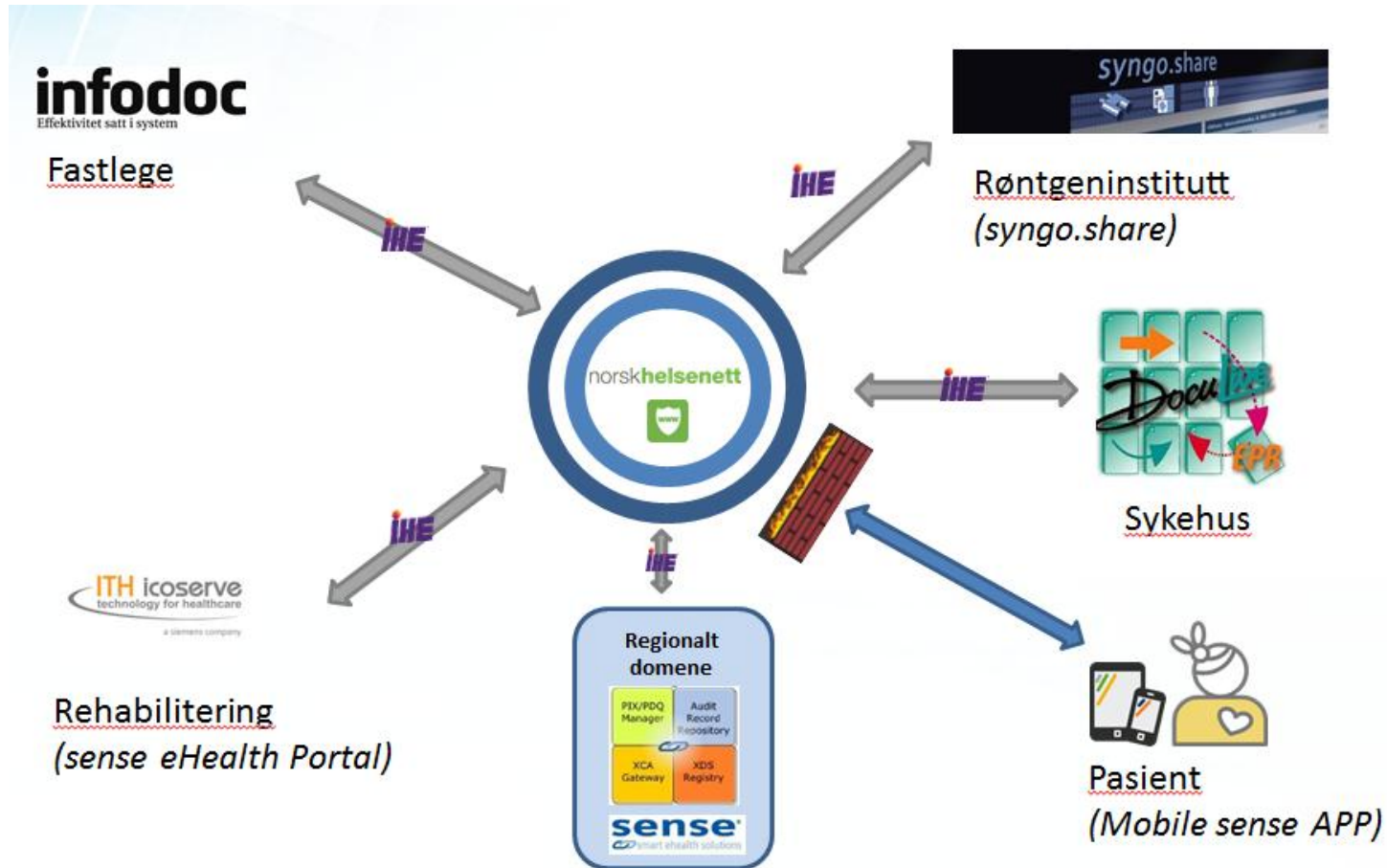


Invitasjon til bransjen

- Mld. St. 9
- KommIT
- Pasienter
- Klinikere
- Politikere
- Media



Vårt forslag IHE



Metodikk:




- IHE = **I**ntegrating the **H**ealthcare **E**nterprise
- Basert på standarder som HL7 og DICOM
- IHE er ikke en standard; men *et sett retningslinjer* for bruk av kjente standarder

Fastlegen - Infodoc Plenarior













John Finnson (29.09.1977) - Infodoc Plenarior Journal - 00:44


Fil Vis Sett inn Kartotek Andre moduler Hjelp

Personalia  29.09.1977 Alder: 35 år NB Kjernejournal
John Finnson Kjønn: Mann Cave
Tlf: Kode

1 Journal 2 Oversikt 3 Medikasjon 4 Lab 5 Andre undersøkelser 6 Sykmelding 7 Vaksine 8 Korrespondanse DocuLive Sense

Found documents

	Time of visit	Visit type	Title	Document type	Practice Setting	Service provider	
<input checked="" type="checkbox"/>	07.09.2013 - 07.09.2013	Ambulant	Notat fastlege	Notat fastlege	General medicine	Legekantoret i Gi...	 
<input checked="" type="checkbox"/>	08.09.2013 - 08.09.2013	Ambulant	Røntgensvar	Røntgensvar	Radiology	Medi 3	 
<input checked="" type="checkbox"/>	08.09.2013 - 08.09.2013	--	Røntgenbilde av kne	Røntgenbilde av ...	Radiology	Medi 3	 
<input checked="" type="checkbox"/>	09.09.2013 - 09.09.2013	Ambulant	Notat fastlege	Notat fastlege	General medicine	Legekantoret i Gi...	 
<input checked="" type="checkbox"/>	09.09.2013 - 09.09.2013	Ambulant	Henvising	Henvising	General medicine	Legekantoret i Gi...	 
<input checked="" type="checkbox"/>	16.09.2013 - 17.09.2013	Ambulant	test document1379418756070_08	Discharge summ...	Internal medicine	Innrain Hospital	 

Page 1 of 1  Document 1 - 6 of 6


Document details

Document information

Title	Røntgenbilde av kne
Date of create	08.09.2013
Residence	08.09.2013 - 08.09.2013
Visit type	--
Practice Setting	Radiology
Author	Doctor, of
Badge	Doctor, of

Origin

Service provider	Medi 3
Department	--
Subdepartment	--

 Display

Oppsatt time: Ingen time i timebok ti 17.09.2013 17:07 |q1 Lege 0.00

Sykehusets journal

Siemens DocuLive EPJ

Dokumentasjon

Kurve somatikk generell - St. Olavs Hospital - Finnson, John

N8 G8 til 1 Dag 7 Uke 31 Måned

Skriv ut Vis seksjoner Oppfrisk Oversikt forordninger Ny forordning Legemidler ved innleggelse og utskrivning Dagsplan Makuler Hjelp Eksterne dokumenter

Kurve gyldig fra - til: 17.09.2013 10:03 -

Innlagt dato: 21.12.2012

Høyde: 180

Vekt: 90

Kritisk informasjon: Med. allergi: Fenoksymetylpenicillin, Utslett, kløe, Mindre alvorlig

Pasient: 020993 43527

Arbeidsdiagnose: Menisk

Operasjon:

Pasientansvarlig:

Regionale dokumenter

Browser

Notat fastlege
Røntgenbilde av kne
Røntgensvar
Notat fastlege
Henvi...

test document1379418756070_08

Vis valgt dokument

infodoc

Legeskontoret i Giske AS
Ytterland
6050 VALDERØYA

St. Olavs Hospital
Ortopedisk avdeling
St. Olavs Hospital
Postboks 3240 Sluppen
7006 Trondheim

Henvi...

Pasienten har knesmerter.

Røntgen viser trolig behov for operasjon, og pasienten henvises til sykehus for vurdering og eventuelt operasjon.

Med hilsen

Per Olav Person
Fastlege

16 Tir 17 Ons 18 Tor 19

Mobilisering

Venekatyle - Høyre arm

Fysioterapi

Røntgen Underkremittet

Blodtrykk x 2, daglig

Måling av omkrets ekstremitet x 2, daglig

Puls x 2, daglig

Temperatur x 2, daglig

1 X 1 2

Resp/ sirk/ bevissthet

Puls: 80 90

Blodtrykk: 130/70 120/80

Temperatur: 39 37

Kroppsvæske

Annet

Høyde: 180

Vekt: 90

Observasjoner, småbarn

Høyreklikk for å registrere

Mine dokumenter i kl...

Dokument	Opprettet
13.06.13 Overf.	13.06
07.06.13 S1-1	13.06

Opphold

Avdeling	Innlagt	Utskrevet
Medisinsk	21.12.20	---
Medisinsk	23.05.19	23.05.19

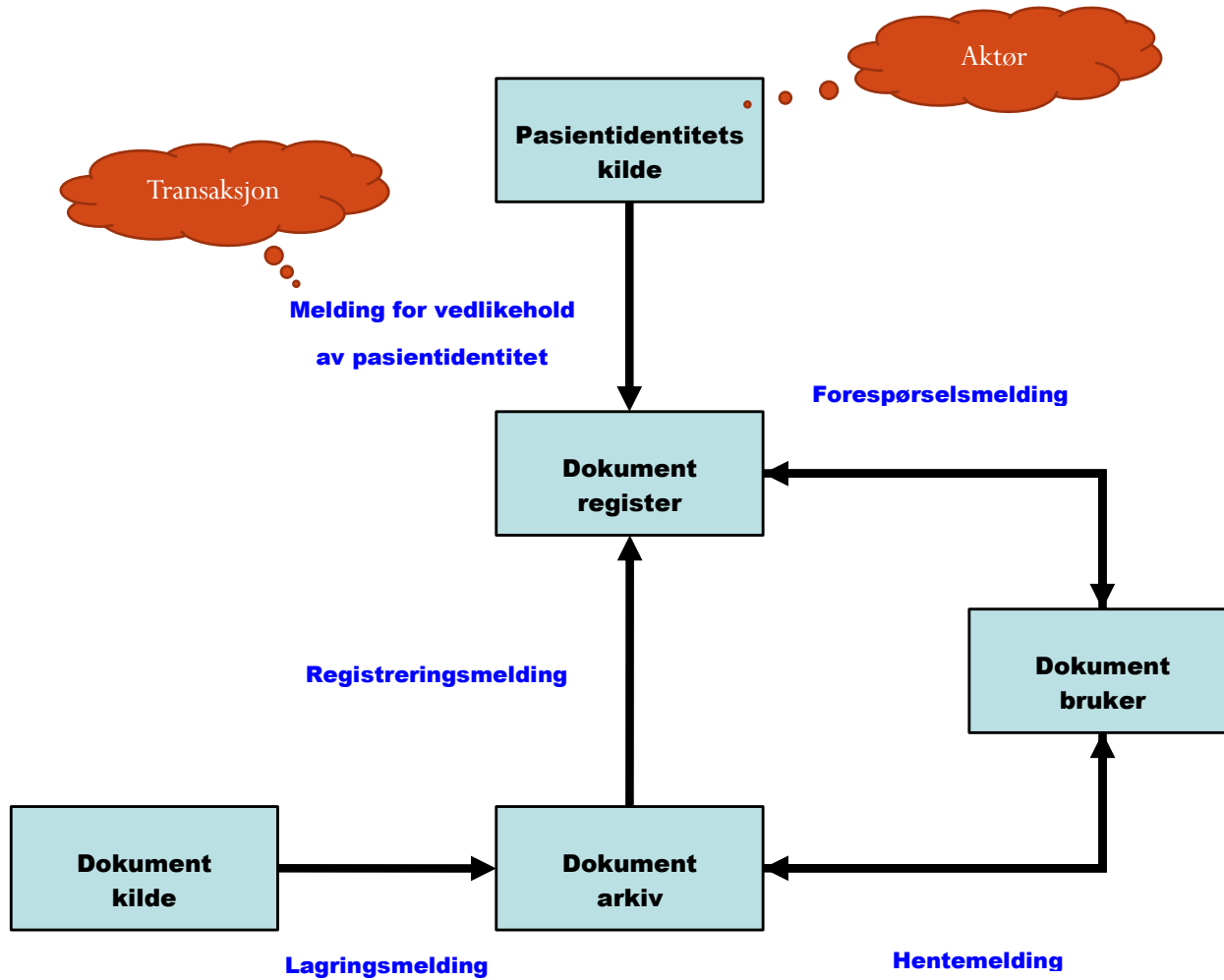
Mine oppgaver

Oppgave	Emne	Mottatt
---------	------	---------

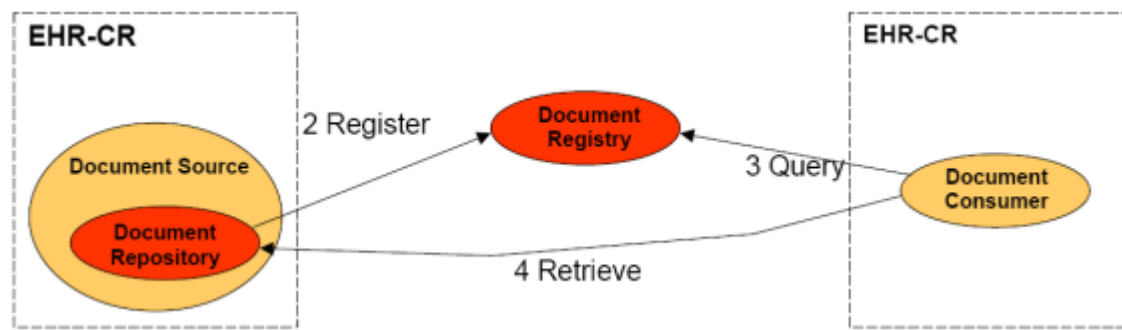
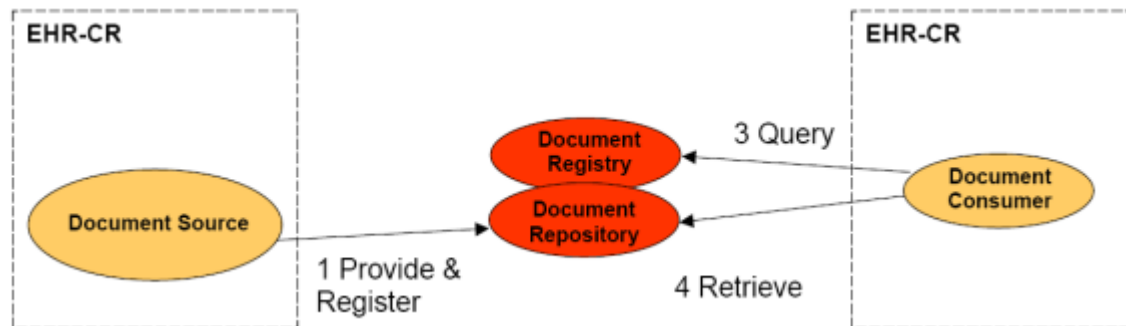
kjm | demo2 | hnn_670_demo_new

Start SensDemo Flyttbar disk (E:) Siemens DocuLive ... Regionale dokume... Regionale dokume... Browser Regionale dokume... Browser Uken navn - Paint 17:21

XDS



Sentral / desentral løsning



Arbeidsflyt: XDW

- Støtte for fleksibel arbeidsflyt
- Reglene er ikke en del av definisjonen XDW, men kun bestemt av de tilkoblede systemer

Sikkerhet: ATNA, XACML

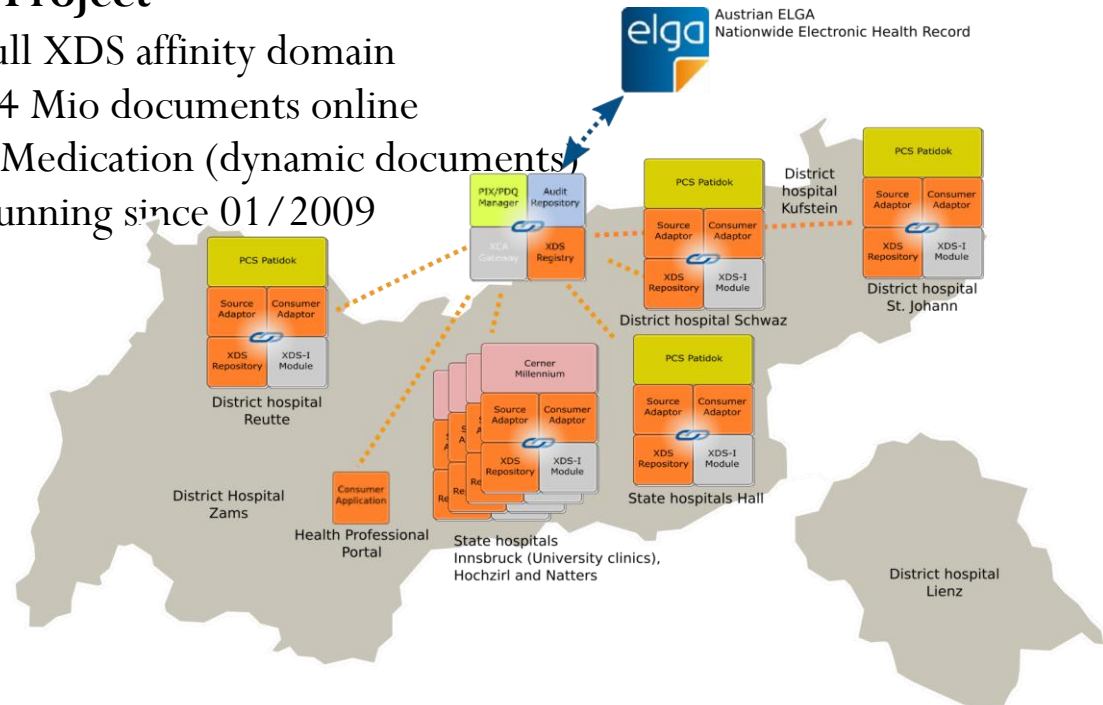
- Støtte for sterk autentisering- og tilgangskontroll

Erfaringer fra andre land

- Eksempel: Østerrike
- Øvrig utbredelse

GNT Project

- Full XDS affinity domain
- > 4 Mio documents online
- e-Medication (dynamic documents)
- Running since 01 / 2009



Meld.St.9

1. Som i dag



2. Alle journalopplysninger lagres ett sted, én nasjonal database. Lokale systemer, standardisert grensesnitt



3. Virksomhetene beholder sine egne systemer, data lagres lokalt. Data kan hentes fra andre journalsystemer og presenteres som én samlet journal for helsepersonellet

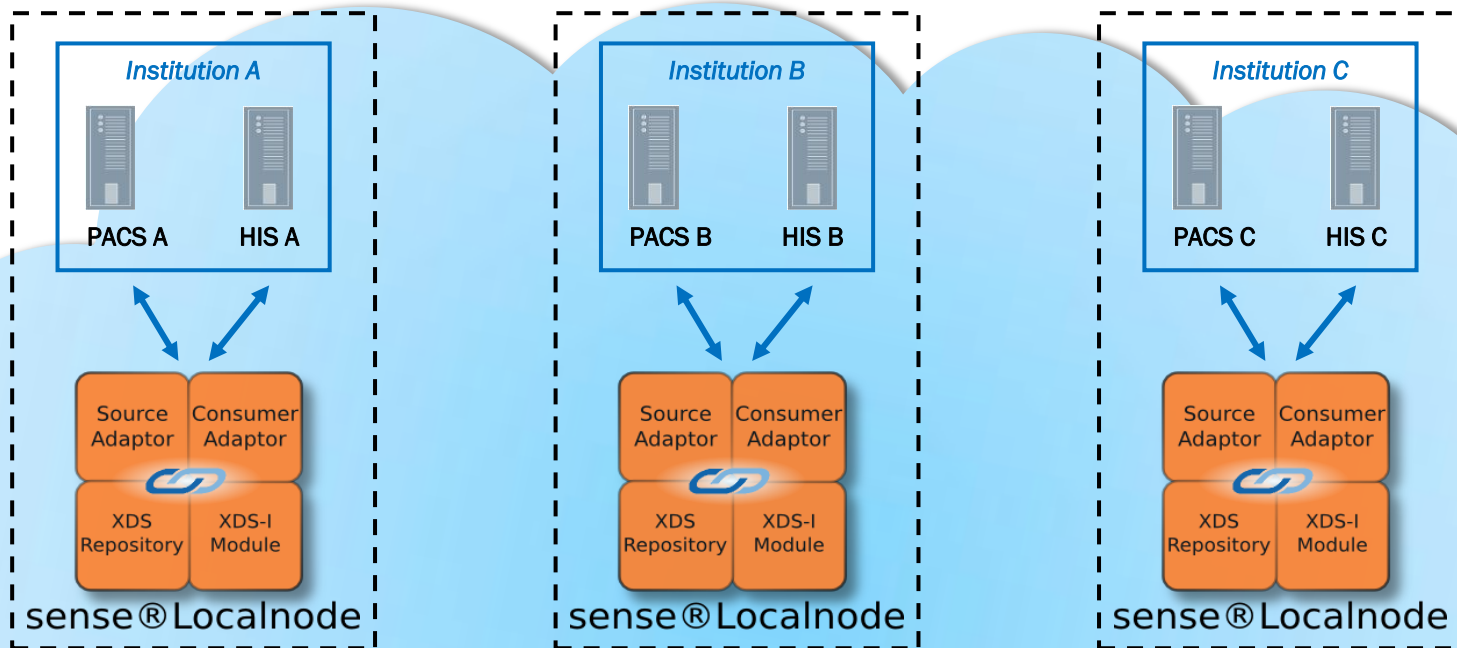


4. Ett felles nasjonalt system for alle

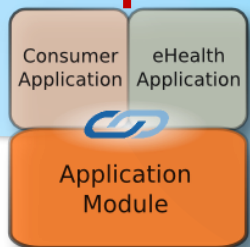
Eksempel

De følgende sider viser eksempler på

- Systemarkitektur
- Registrering av dokument
- Uthenting av dokument



Affinity Domain A
Eks. Regionalt
helseforetak



sense® Applicationnode

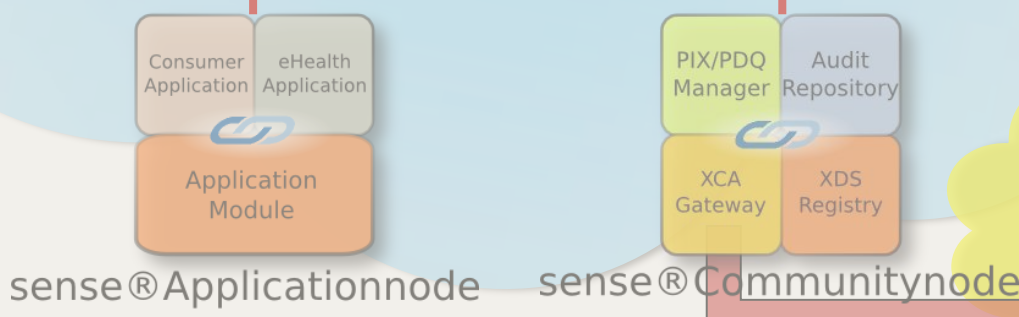
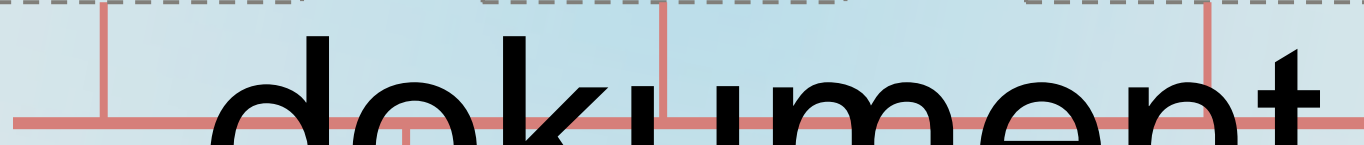
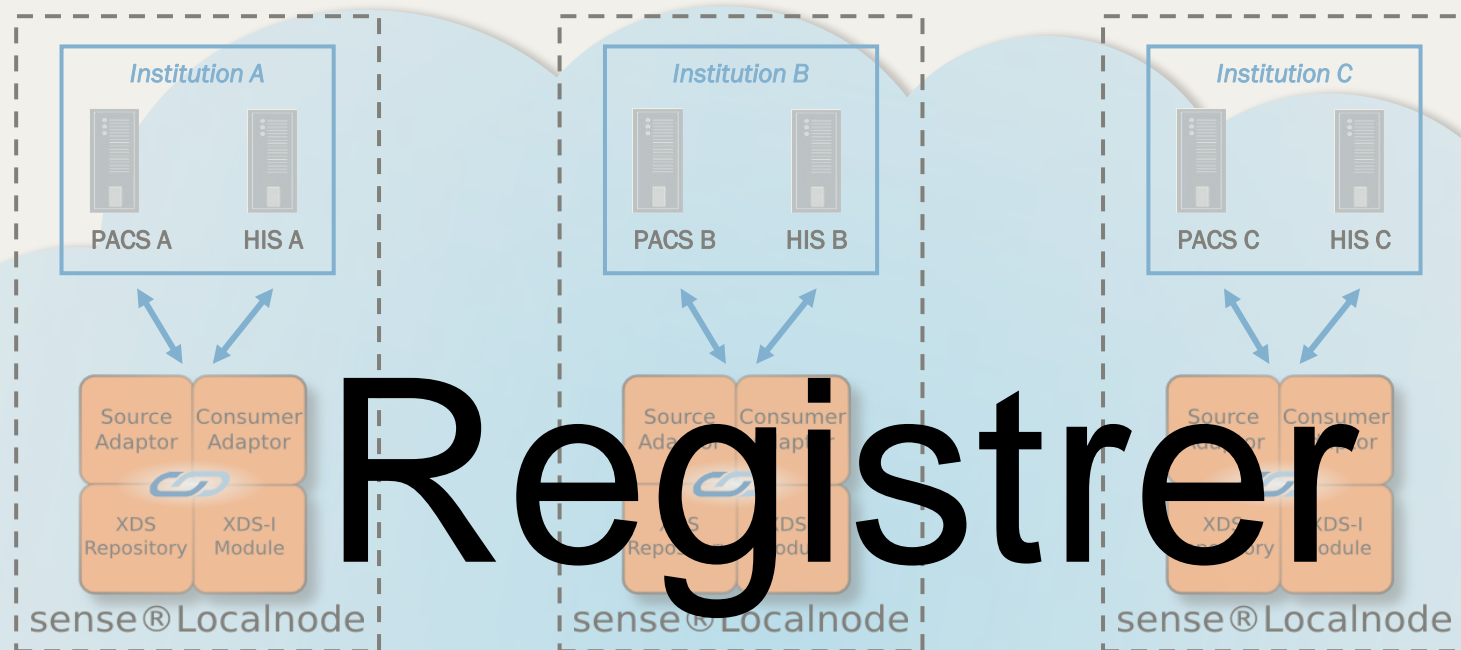


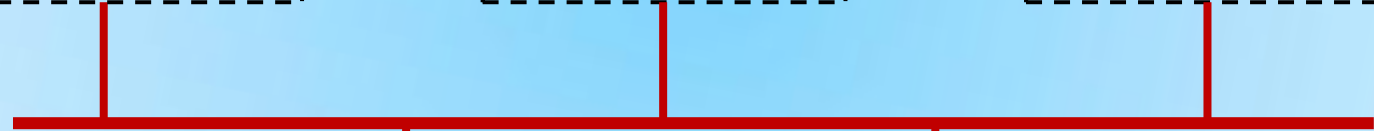
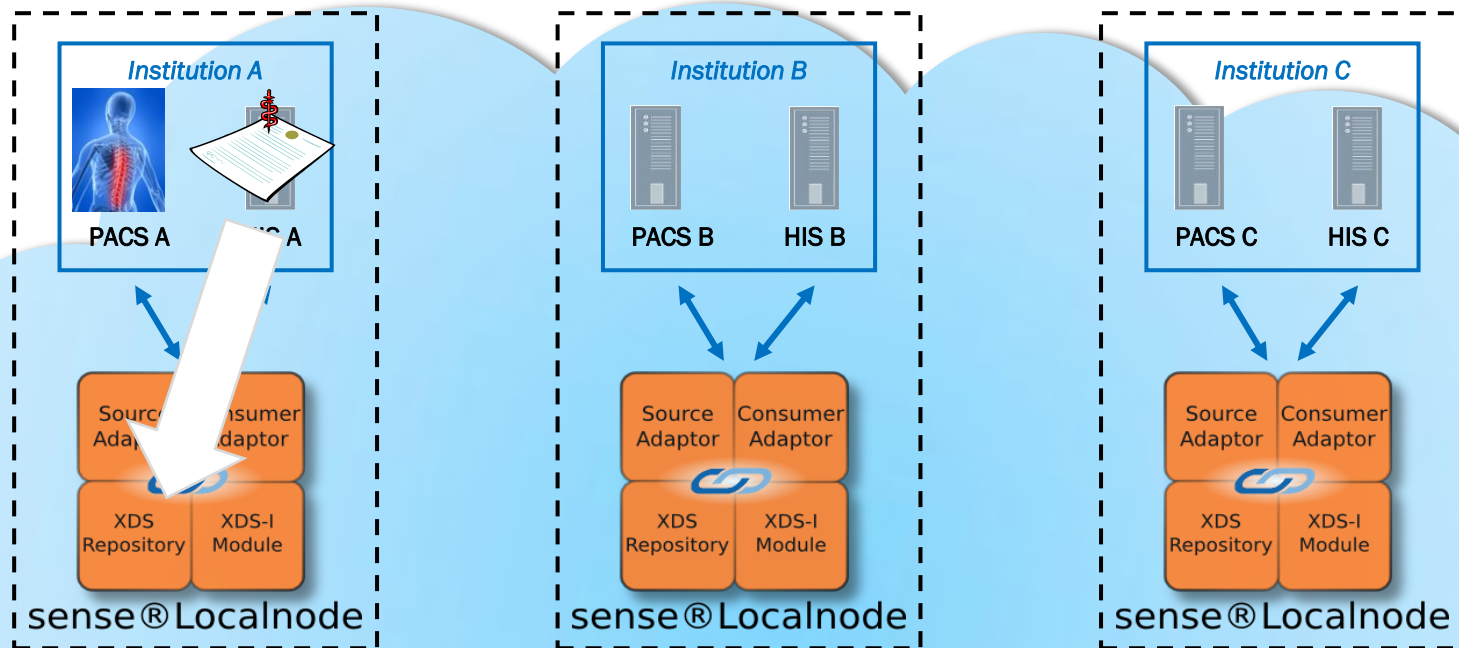
sense® Communitynode

Affinity Domain B
Eks.: Helseregion

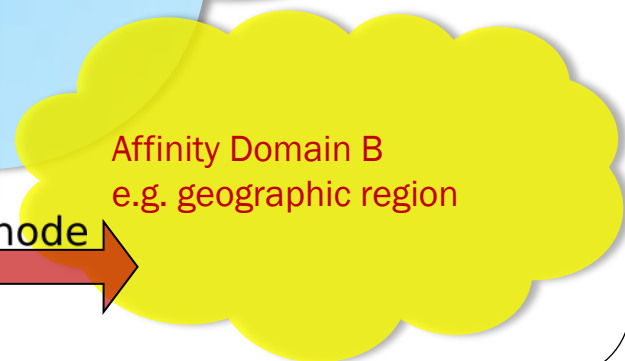
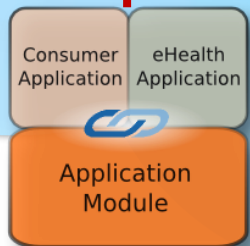


Registrierer dokument

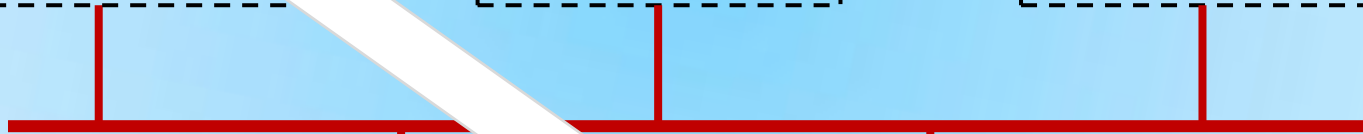
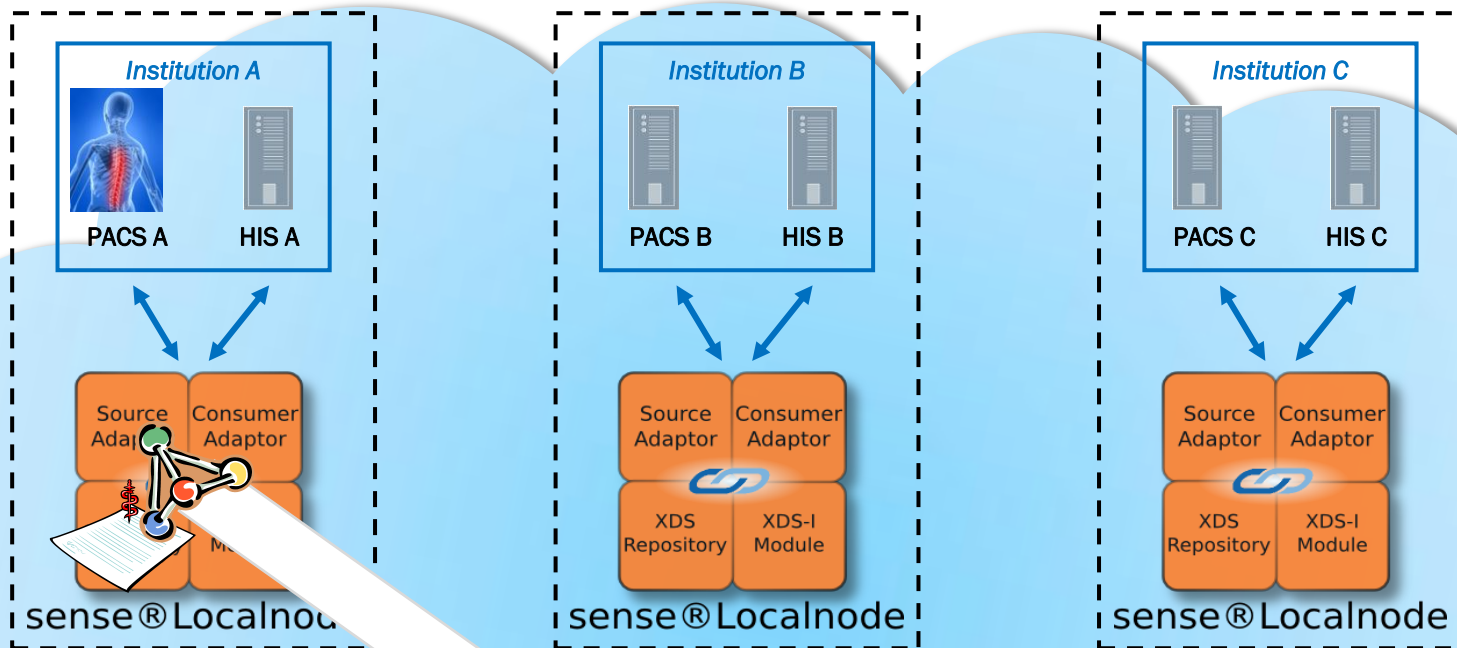




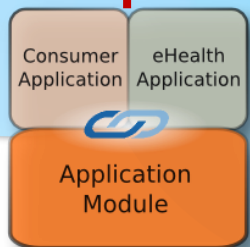
Affinity Domain A
 e.g. Hospital Holding



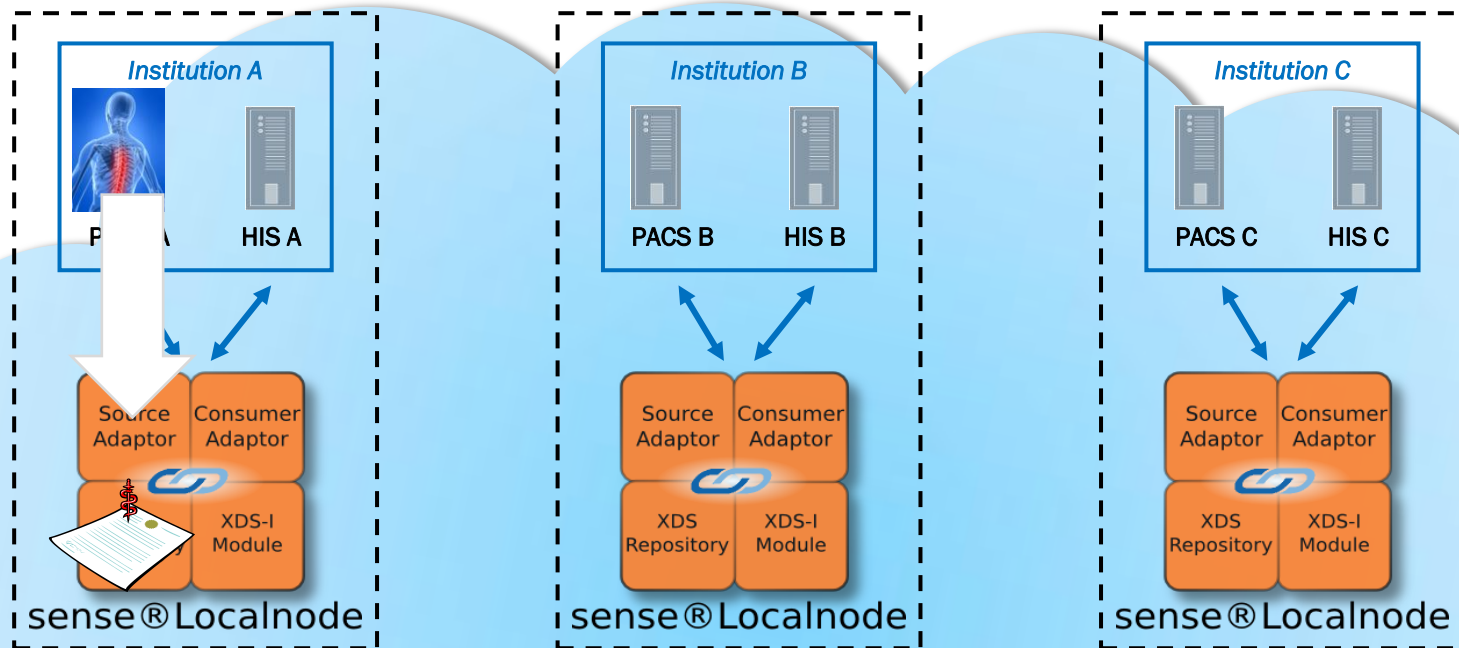
sense® Applicationnode sense® Communitynode

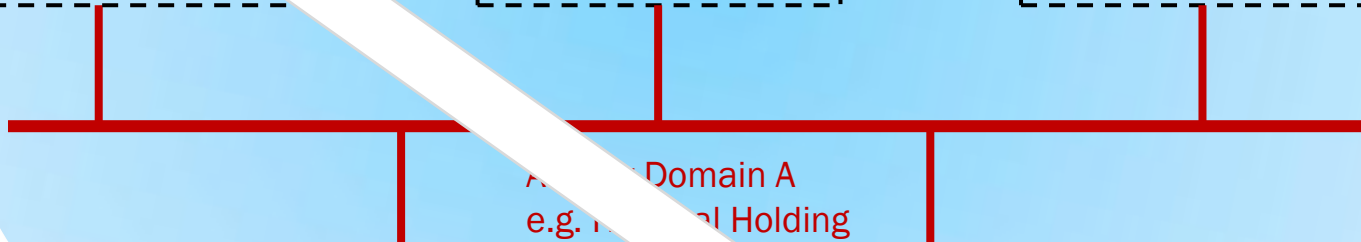
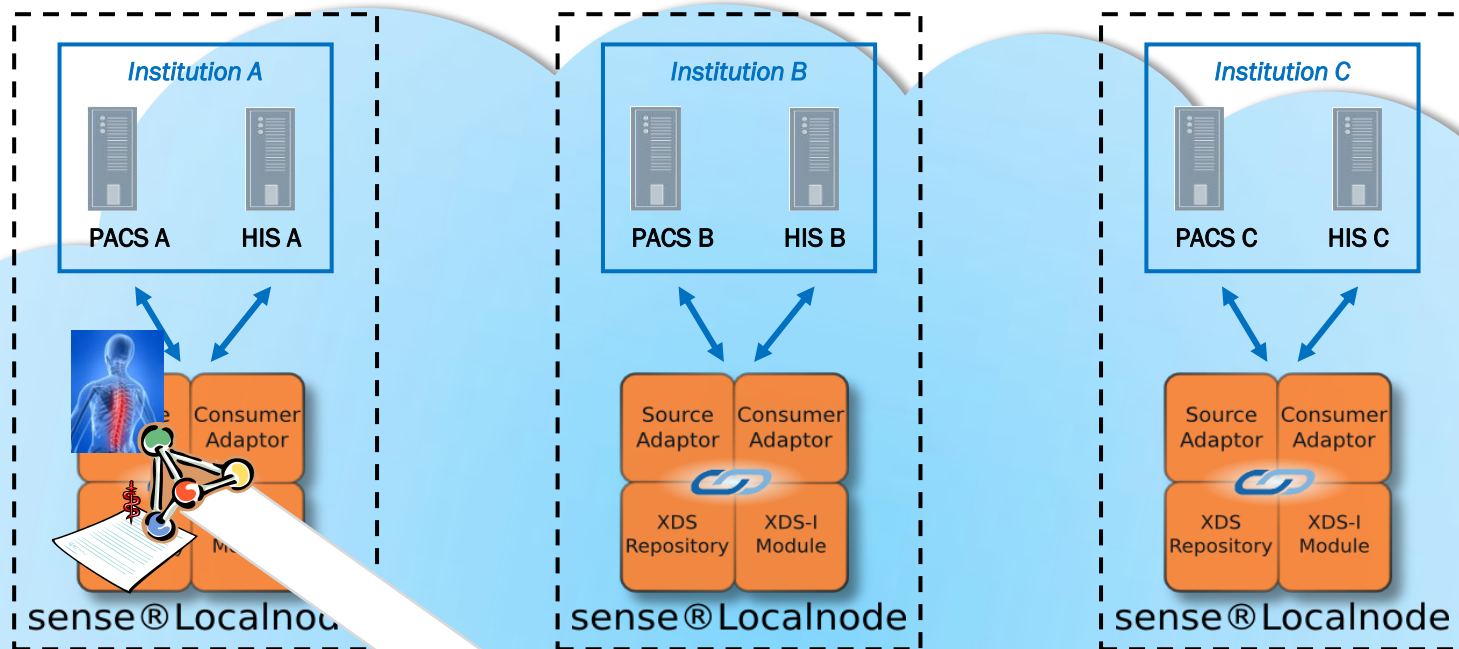


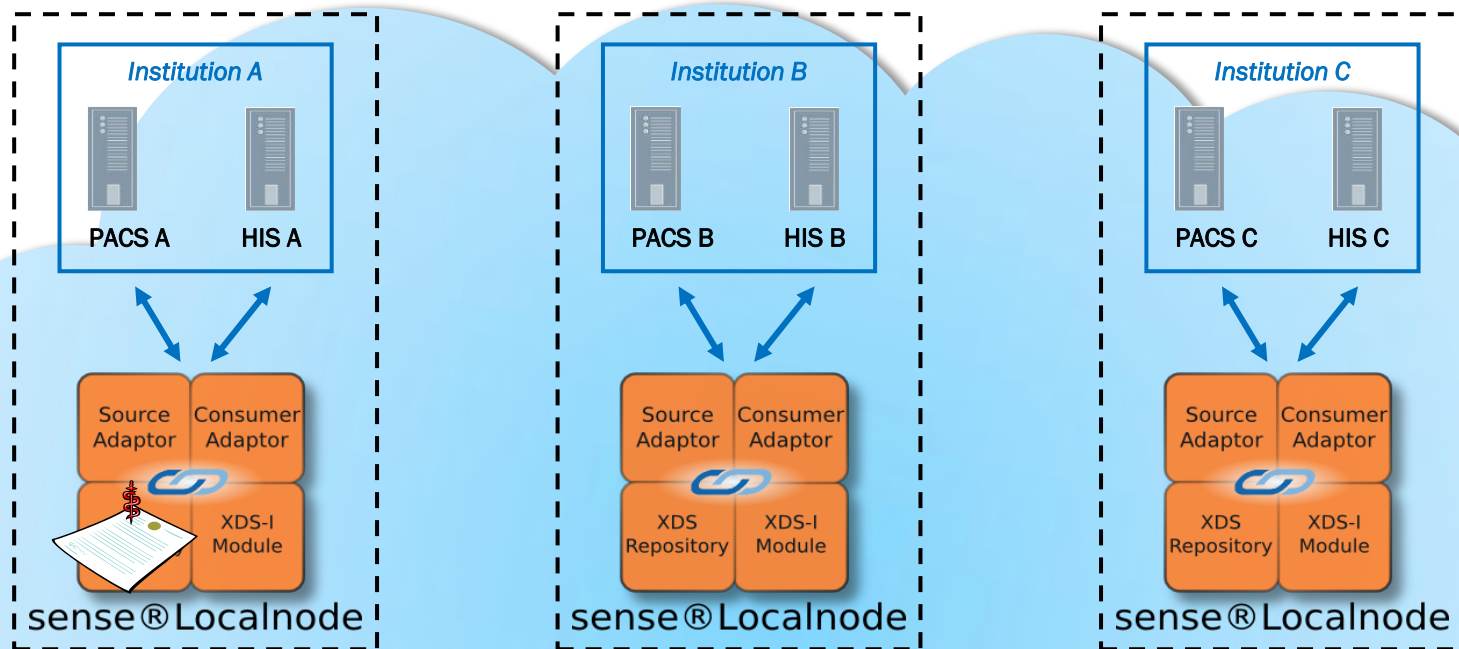
Affinity Domain A
 e.g. National Holding



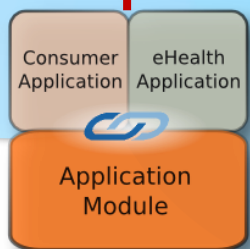
sense® Applicationnode sense® Communitynode







Affinity Domain A
e.g. Hospital Holding



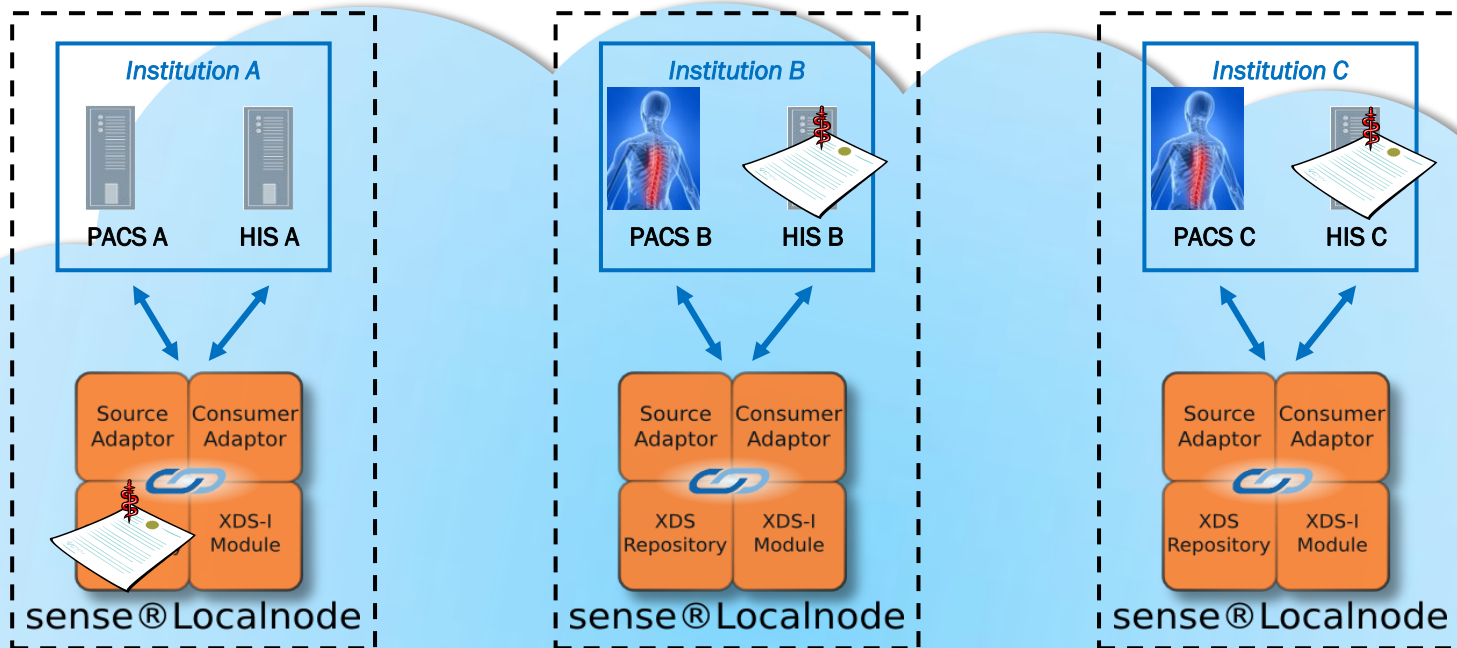
sense® Applicationnode



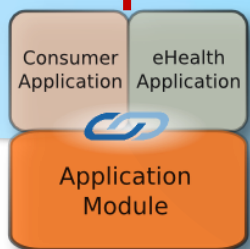
sense® Communitynode

Affinity Domain B
e.g. geographic region





Affinity Domain A
e.g. Hospital Holding

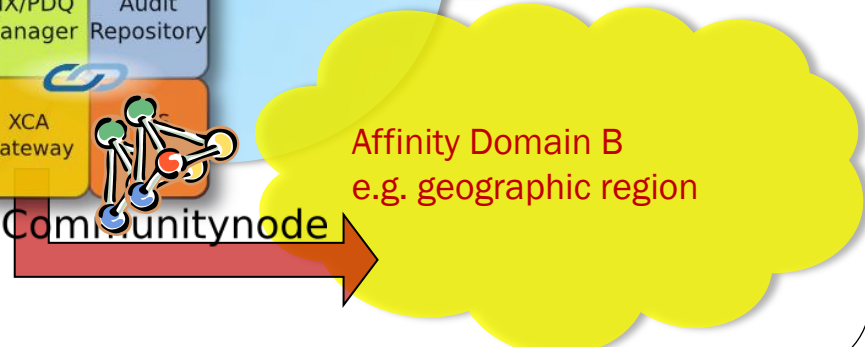


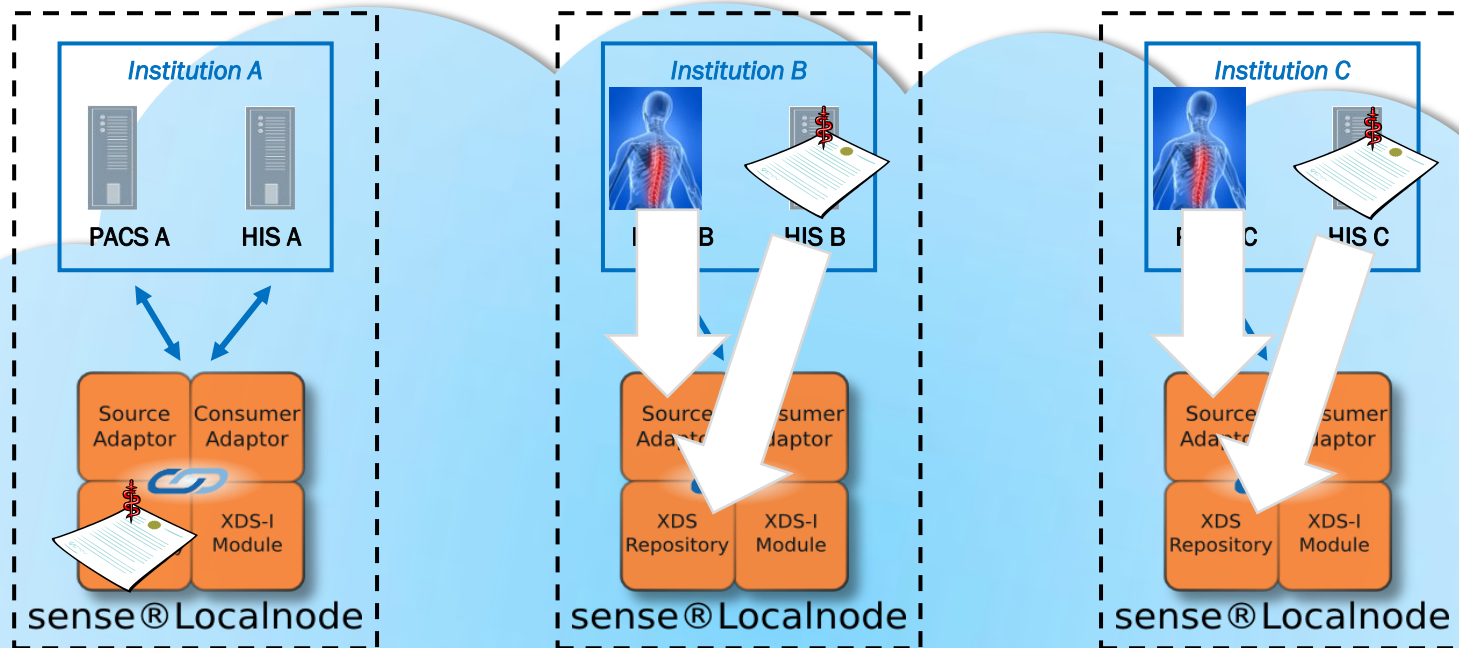
sense® Applicationnode



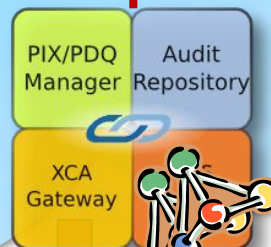
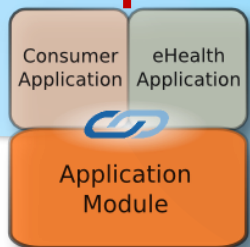
sense® Communitynode

Affinity Domain B
e.g. geographic region



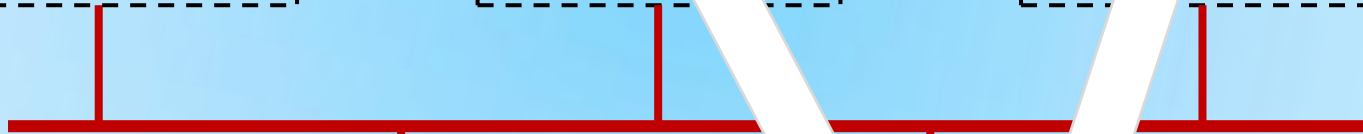
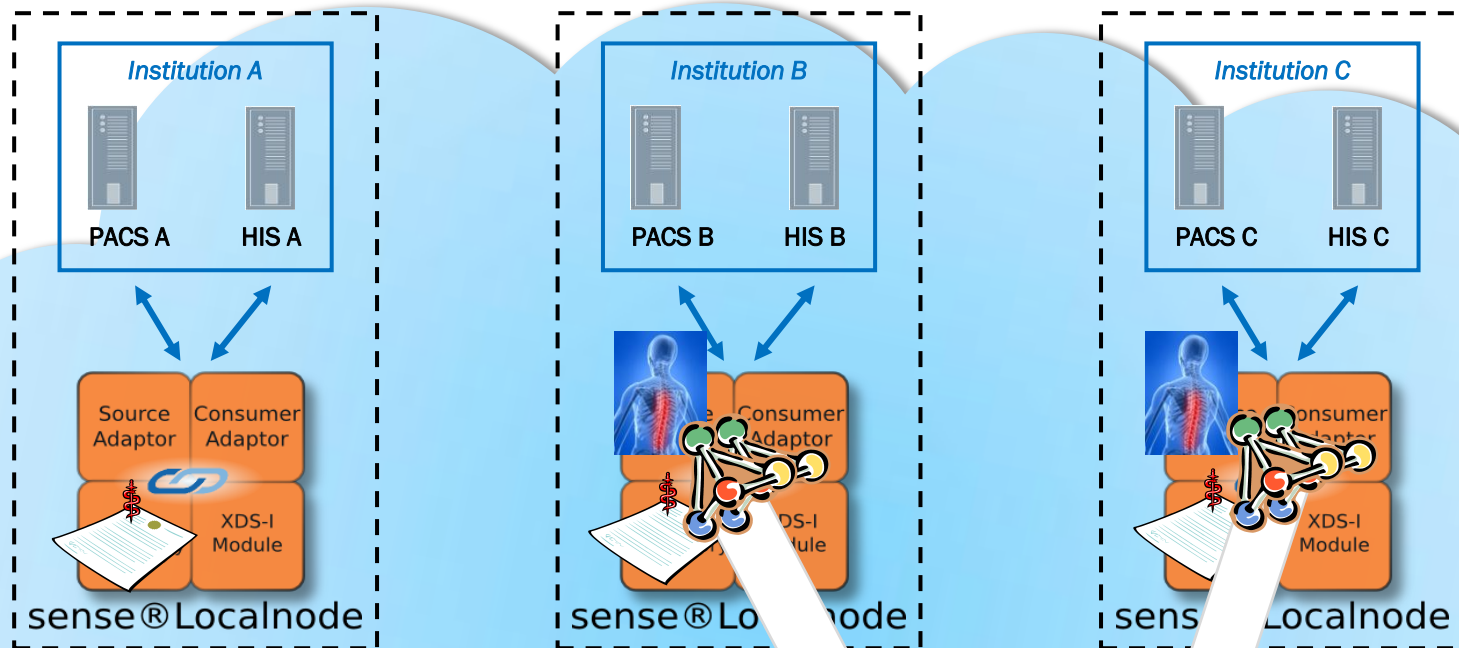


Affinity Domain A
 e.g. Hospital Holding

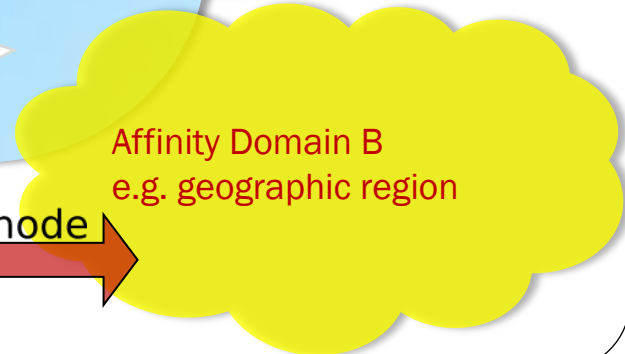
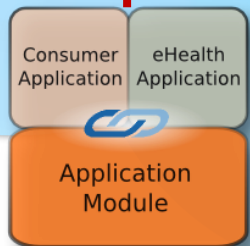


sense® Applicationnode

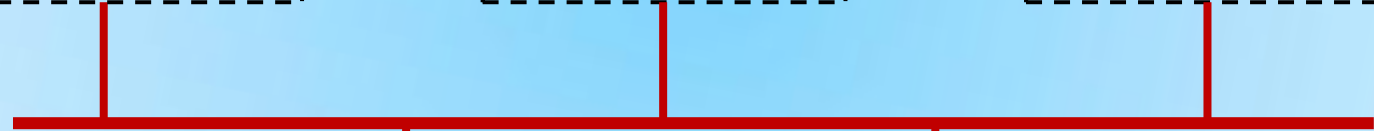
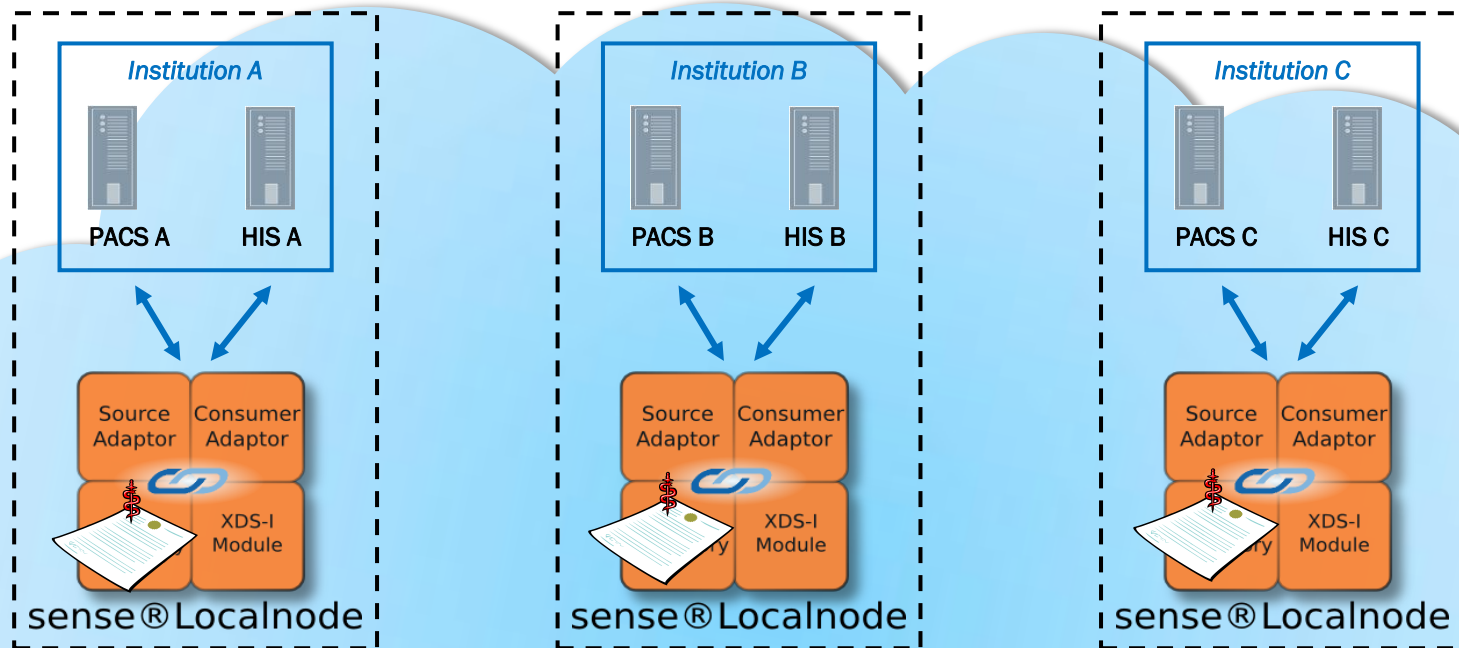
sense® Communitynode



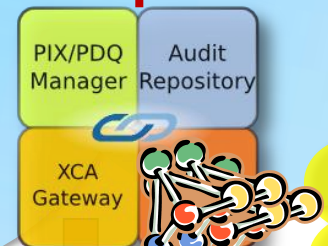
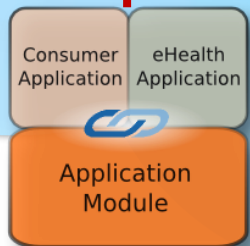
Affinity Domain A
 e.g. Hospital Holdings



sense® Applicationnode sense® Communitynode



Affinity Domain A
 e.g. Hospital Holding

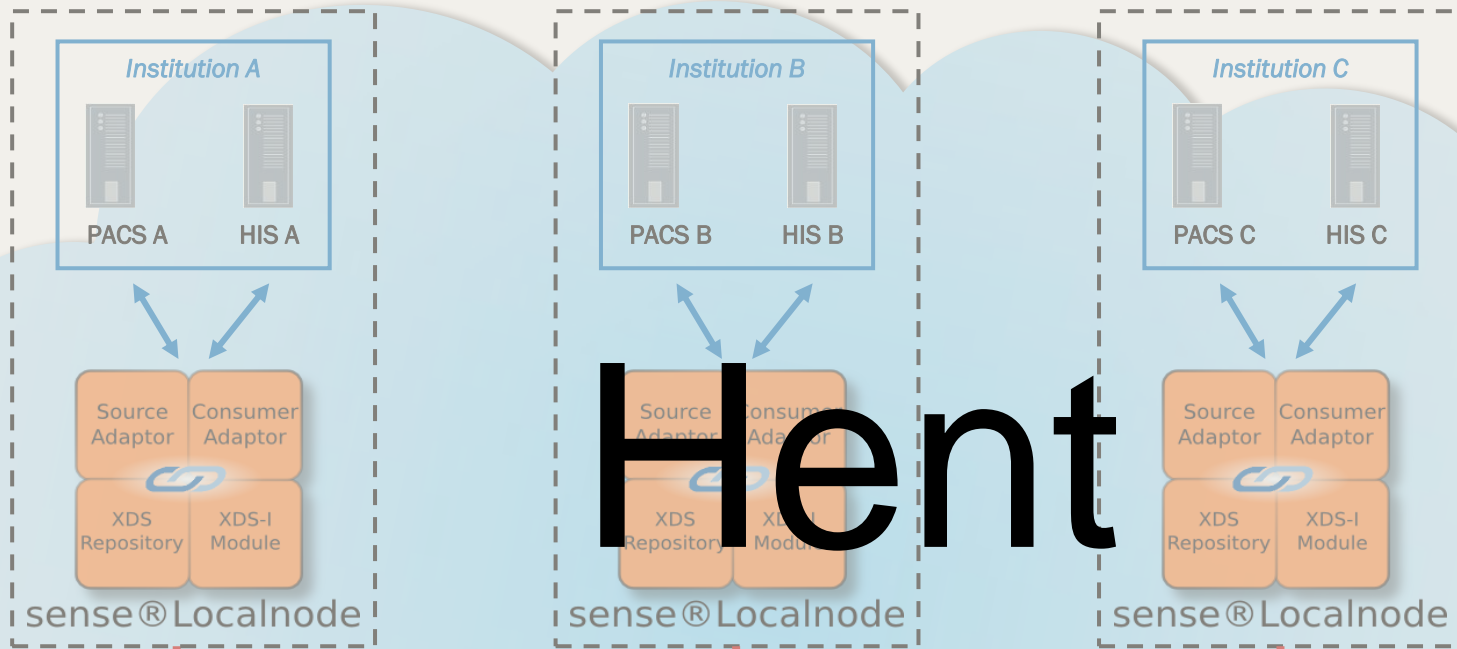


sense® Applicationnode

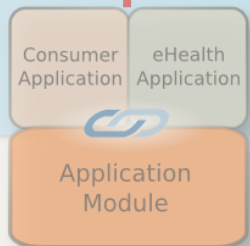
sense® Communitynode

Hent

dokument



Affinity Domain A
e.g. Hospital Holding

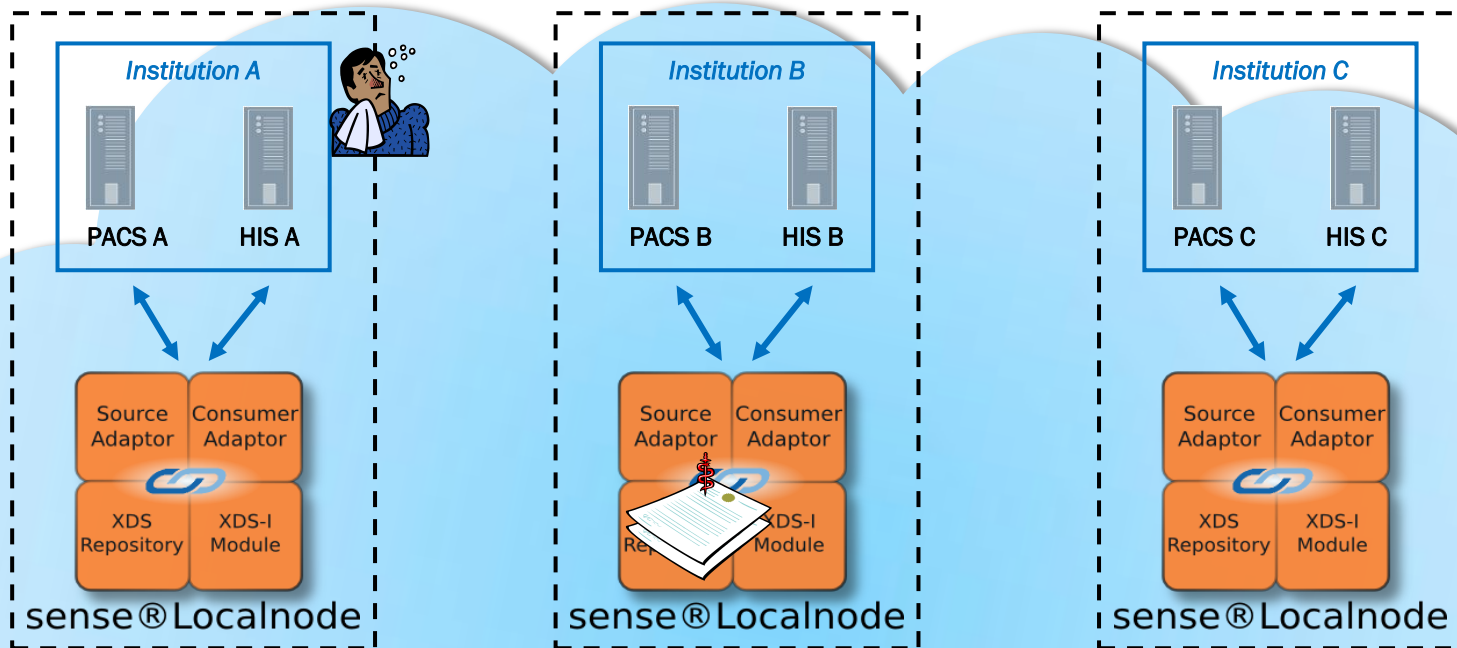


sense® Applicationnode

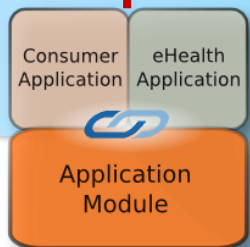


sense® Communitynode





Affinity Domain A
e.g. Hospital Holding

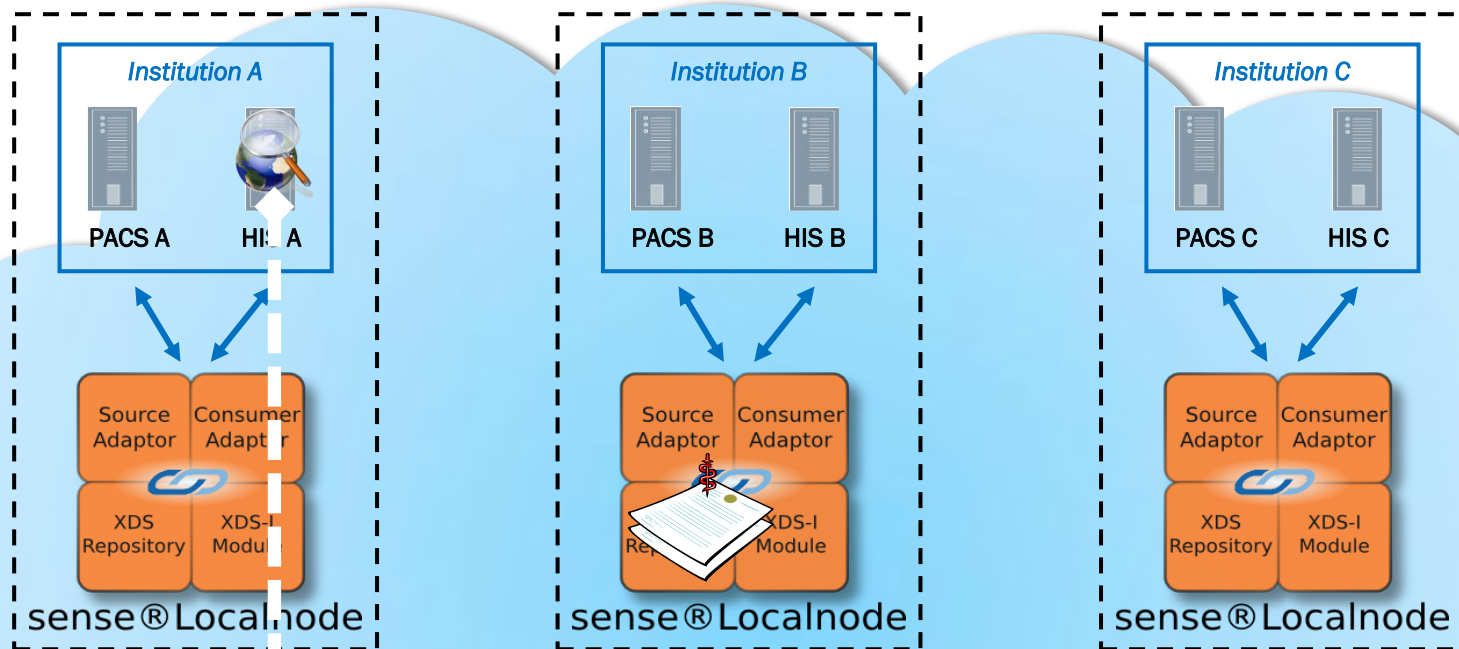


sense® Applicationnode

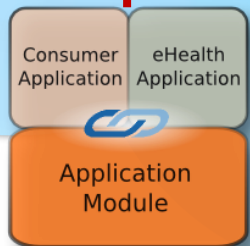


sense® Communitynode

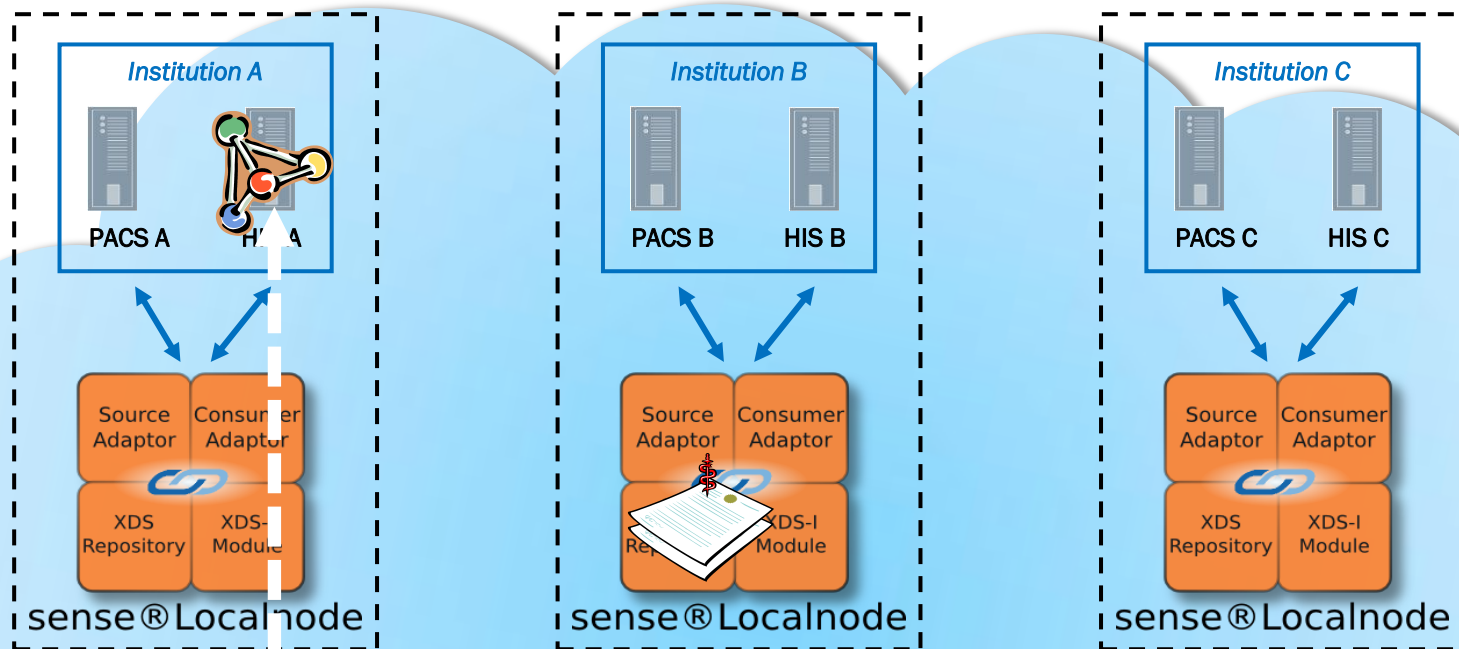




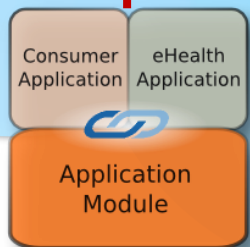
Affinity Domain A
 e.g. Hospital Holding



sense® Applicationnode sense® Communitynode

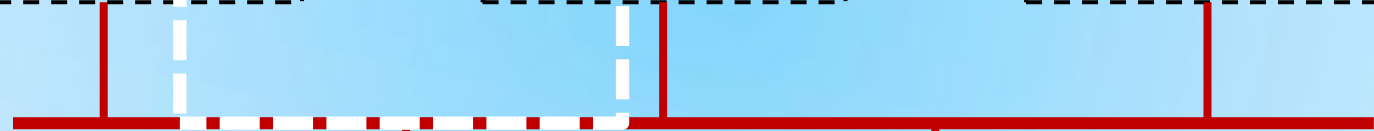
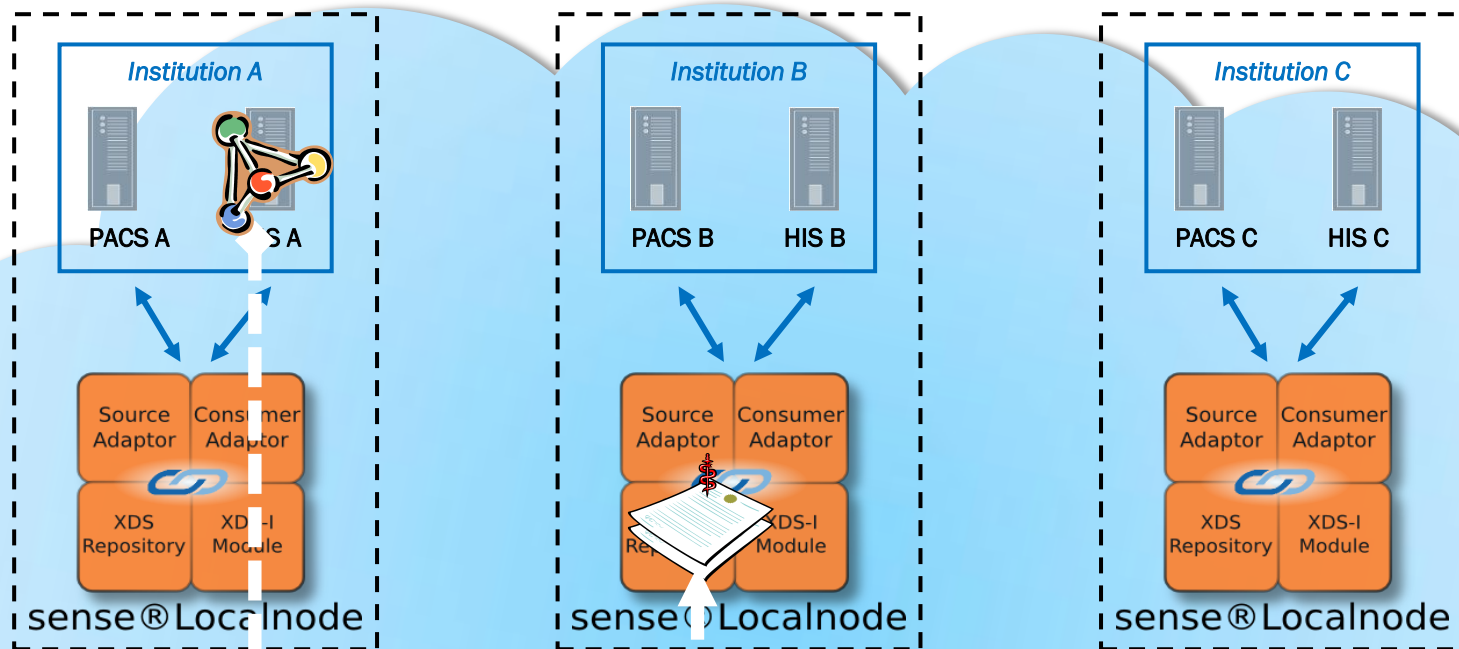


Affinity Domain A
 e.g. Hospital Holding

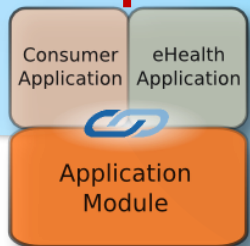


sense® Applicationnode

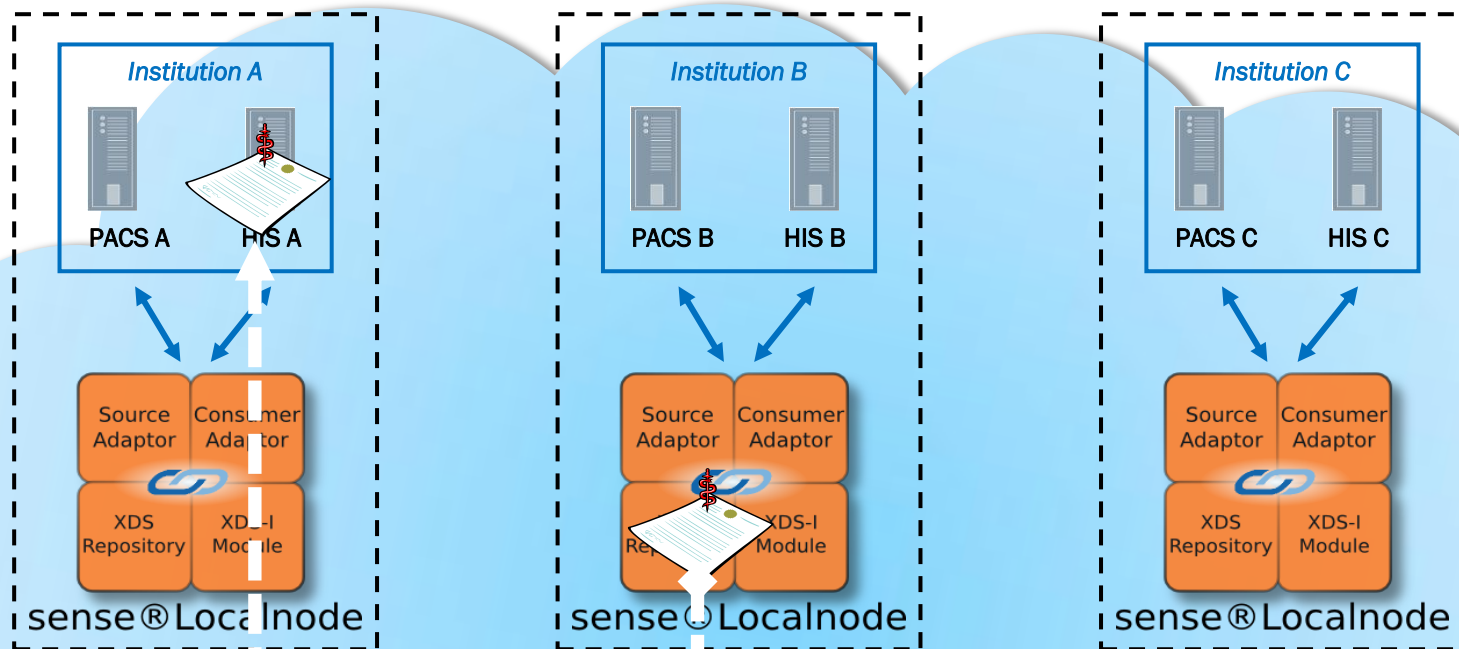
sense® Communitynode



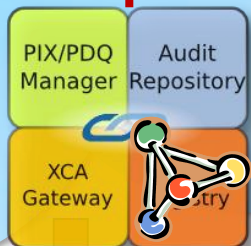
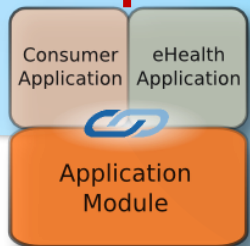
Affinity Domain A
 e.g. Hospital Holding



sense® Applicationnode sense® Communitynode



Affinity Domain A
e.g. Hospital Holding



sense® Applicationnode **sense® Communitynode**



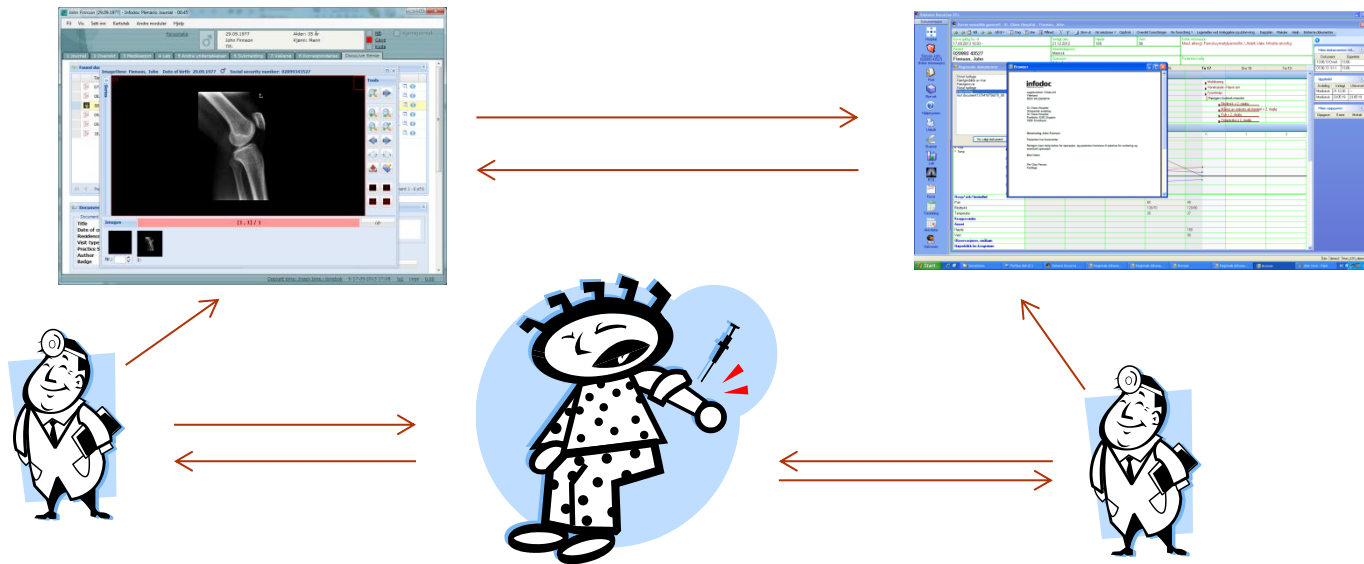
Utfordringer og erfaringer

- Helsesektoren må bli enig om klassifikasjon og «tag'er» for dokumenttypene
- Tilgangskontrollen må tilpasses (ny) norsk lovgivning, og sikre «tilgang på tvers»
- Leverandørene trenger ikke å starte med blanke ark: IHE adaptere tilgjengelig

Oppsummering



- IHE mulig løsning for tilgang på tvers
- Ferdige Adaptere/Api's gir lav utviklingskost



- Se en liten smakebit på Siemens/Infodoc stand