

At the forefront of innovation



FUT (-> Fælles Understøttelse af Telemedicin)

Who am I?

What is FUT?

What is the goal with FUT?

#Where is there more material on it? Here -> <https://ehealth-dk.atlassian.net/wiki/spaces/EDTW/overview?homepageId=753799>

The image shows a Google search interface with the search term "fut danmark". The search results are displayed on a dark background. The first result is a PDF document titled "FUT - TELEMEDICIN I DANMARK" from the URL "https://www.rm.dk > sundhed > faginfo > fut > fut...". The second result is a FAQ page titled "FAQ om Fælles Udvikling af Telemedicin (FUT)" from the URL "https://www.rm.dk > faginfo > Systemforvaltning > faq-...".

Google

Search bar: fut danmark

Navigation: Alle, Billeder, Maps, Shopping, Videoer, Mere, Værktøjer

Ca. 3.690.000 resultater (0,50 sekunder)

Resultater for Danmark · Vælg område

<https://www.rm.dk > sundhed > faginfo > fut > fut...> PDF

FUT - TELEMEDICIN I DANMARK

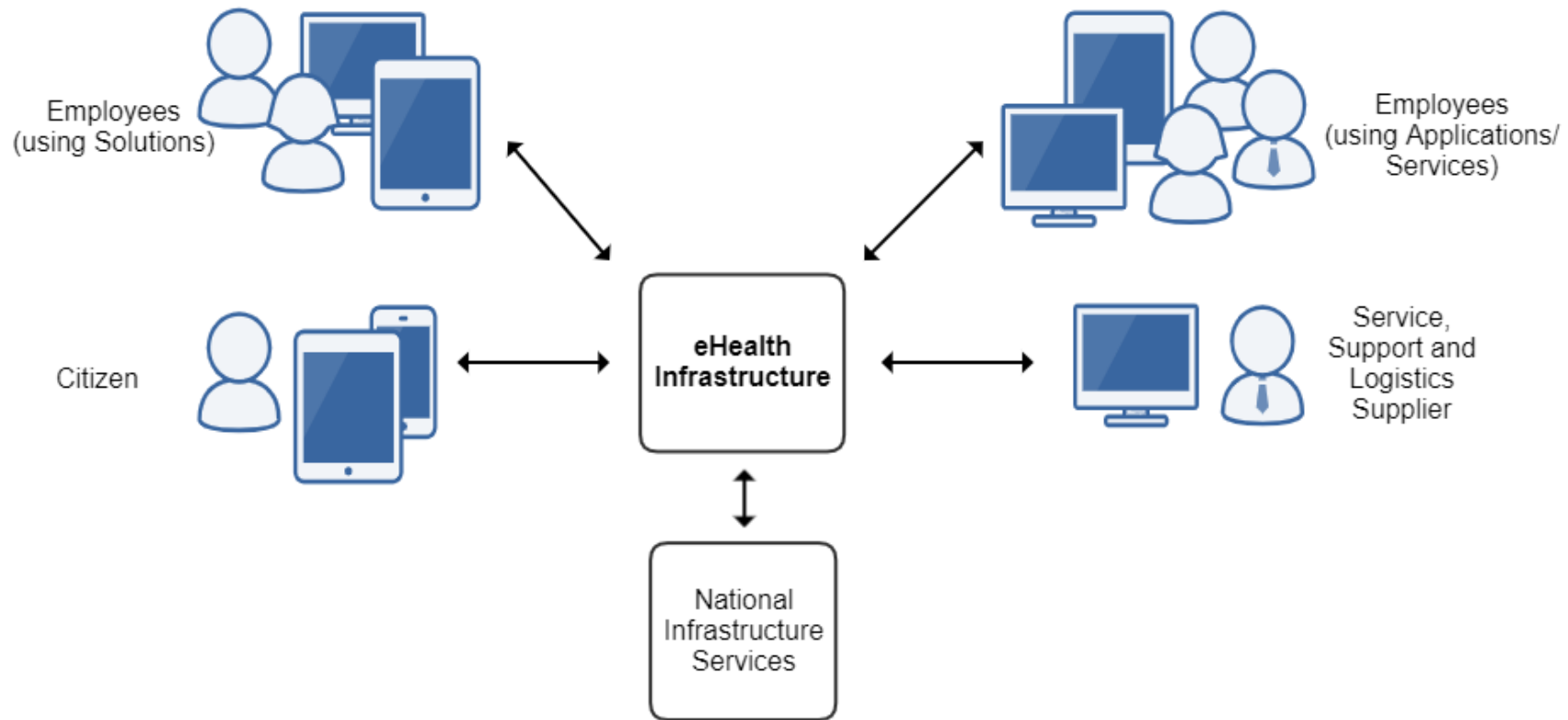
FUT har gennemført udbud og udvikling af en telemedicinsk infrastruktur og telemedicinske it-løsninger til borgere og medarbejdere. Drift, vedligehold og ...

<https://www.rm.dk > faginfo > Systemforvaltning > faq-...>

FAQ om Fælles Udvikling af Telemedicin (FUT)

De telemedicinske medarbejderløsninger er et redskab til de sundhedsfaglige medarbejdere, så de løbende kan monitorere borgere med KOL. Ved hjælp af it- ...

FUT and its overall surroundings

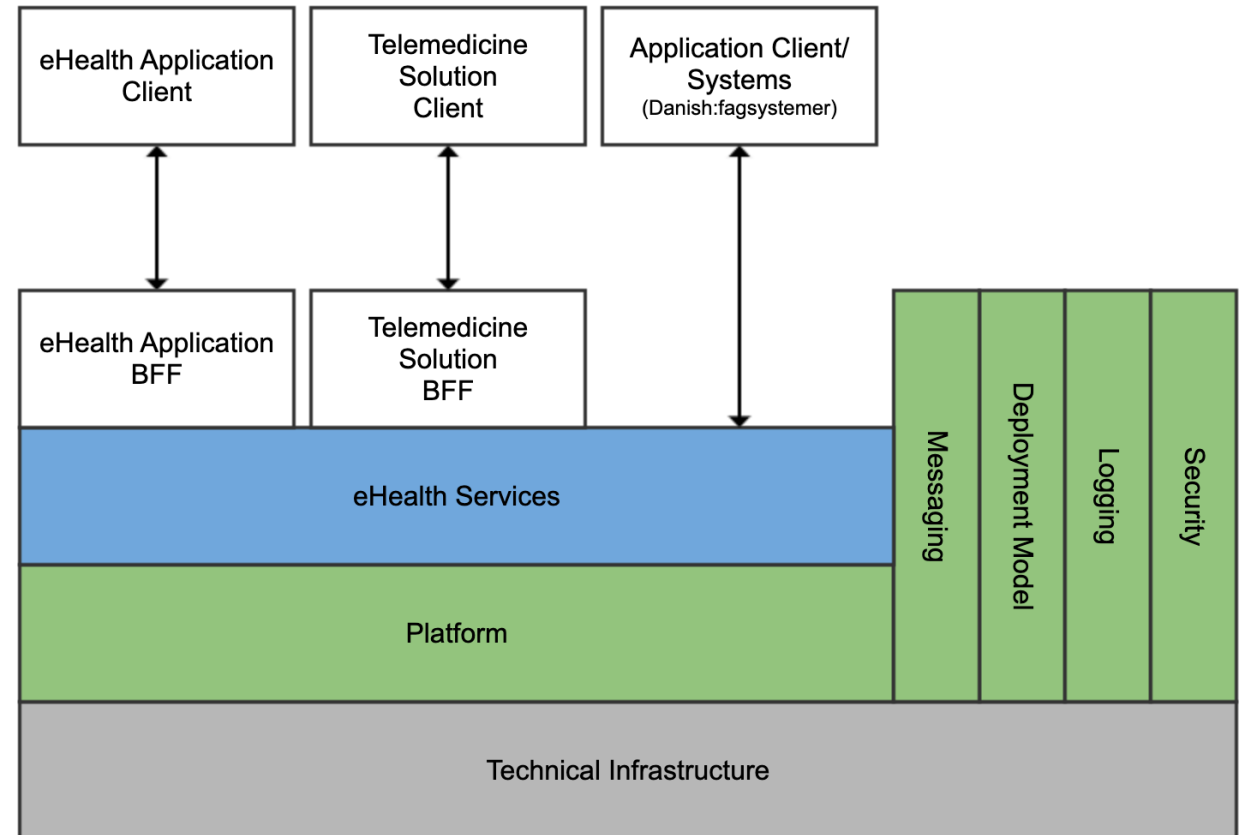


FUT and its overall surroundings

- All clinical users (from all municipalities and regions) are 100% federated through existing federation portals
- First system of its kind in DK (I think 🤔) to provide clinical access to the same information across regional and municipal borders due to its security model and federations
- All citizens are 100% federated through existing national portals
- FUT is everything BUT an island. It is integrated with the +15 most central pieces of existing infrastructure on state and regional level ...

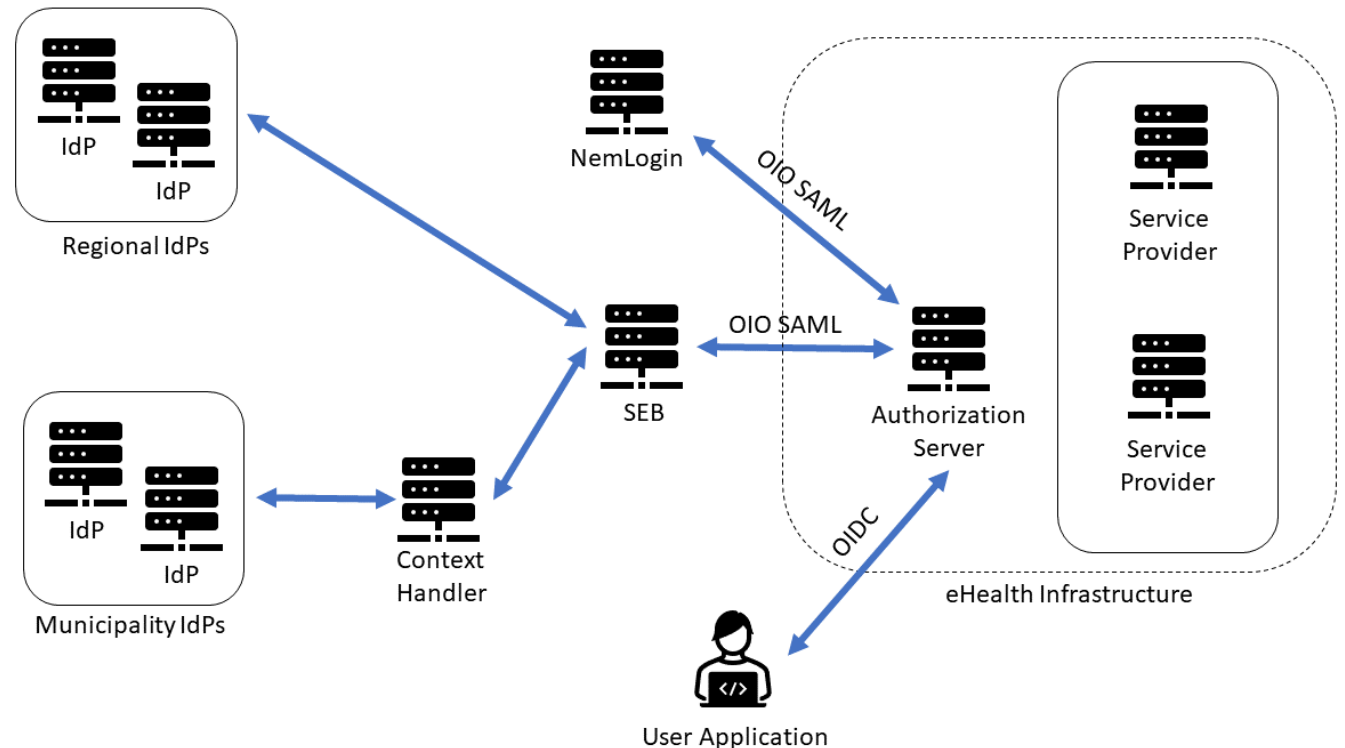
FUT and its stacks

- Built as zero trust, API first setup
- Infrastructure remains the same across solutions
- Each solution is specific to a certain disease area
- Consists of 13 FHIR services + integrations. In total ~50 application services and jobs running



FUT and how FHIR is used for security (not SMART – but SMART'er ... 'ish)

- Attributes (roles and associations) for all clinical personnel (Practitioners) are included in SAM
- Practitioners are created on the fly they log in
- Almost all access to resources is guarded by the associations to CareTeams
- Appointment/CarePlan/EoC's as an example have CareTeams listed as attribute under participant/performer/author/team



- SAML attribute builder inspecting the FHIR resources from the platform when constructing the content

The screenshot displays the OIO BPP TOOL interface, which is used for inspecting FHIR resources and generating SAML content. The interface is divided into several sections:

- Left Panel:** A sidebar with a search bar containing "team ...", a filter "[Læge...]", and a blue circular button with a "+" sign.
- Center Panel:** A form for inspecting FHIR resources. It shows:
 - Name***: team a [Speciallæge Pete]
 - CVR number***: 20837535
 - Organization Type***: SOR
 - Organization Identifier***: 358111000016009 (with an 'x' icon)
 - Speciallæge Peter Lange, Lyngby Lungeklinik**
 - Care Team Identifier**: 829339b8-767e-4a9a-a0c3-87cc479411c5 (with an 'x' icon)
 - team a**
 - Roles***: A dropdown menu with "Add role" and a list of roles: administrator, citizen_enroller, and clinical_viewer, each with a trash icon.
- Right Panel:** A section titled "< OIO BPP TOOL />" with buttons for "Get BPP XML", "Import XML", and "Clear". Below these are two tabs: "OIO-BPP XML" and "Encoded OIO-BPP". The "Encoded OIO-BPP" tab is active, showing a large block of XML code. A "Copy" button is located below the XML code.

FUT and its use of FHIR

- Based on R4 (originally STU3)
- One IG to cover all ~40 profiles across the 13 services
- All FHIR infrastructure components are based on the open-source framework of HAPI FHIR (and we are contributing back to it) with heavy customizations

FUT eHealth Infrastructure latest - ci-build

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eHealth Infrastructure - Local Development build (vlatest). See the [Directory of published versions](#)

1 Home

Official URL: http://ehealth.sundhed.dk/fhir/ImplementationGuide/dk.ehealth.sundhed.fhir.ig.core	Version: latest
Active as of 2023-02-07	Computable Name: eHealthInfrastructure

1.1 Introduction

This implementation guide is provided to support the use of FHIR® in the Danish national eHealth Infrastructure context.

This document is a specification that reflects the capabilities of the FHIR®-infrastructural part of the eHealth Infrastructure.

1.2 Scope

This document presents Danish use concepts defined via FHIR processable artifacts; these are outputs with agreed approaches to varied kinds of healthcare related information based on the core FHIR R4 specification.

- [Profiles](#) - are constraints of core FHIR resources and datatype for use in the eHealth Infrastructure
- [Extensions](#) - are FHIR extensions that are added for local use, covering needed concepts of the eHealth Infrastructure
- [Terminologies](#) - are defined or referenced code systems and value sets for the context of the eHealth Infrastructure

FHIR profiles are managed under the constellation of the Danish municipalities and regions:

- [Danish regions](#)
- [Danish municipalities](#)

1.3 Conformance Requirements

The Capability Statements Section outlines the conformance requirements for the eHealth Infrastructure Core Servers and Client applications, identifying the specific profiles that need to be supported, the specific RESTful operations that need to be supported, and the search parameters that need to be supported.

Due to a defect in the tool that generates the implementation guide, the table of exposed operations on each resource is not correct. For a list of operations supported per FHIR resource, please consult the capability statement of the particular server. Displaying the capability statement as either XML or JSON, the operations can be found in the interaction element of each resource.

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- [Conformance Requirements](#)
- [Collaboration](#)
- [Note to FHIR Newcomers](#)
- [Reader's Guide](#)

