

Kanta services – preparing for EHDS primary use

19.1.2025



Kanta is primarily an infrastructure for information exchange that supports continuity of care and services by enabling the transfer of client and patient data across the entire service system

Kanta



Kanta serves across sector and wellbeing service county borders.

**In practice, 100% of Finland's public and private healthcare service providers
and pharmacies are using Kanta.**

Social welfare services are also constantly expanding the use of Kanta.

User groups

Healthcare service providers

Primary care organizations
Hospital districts
Private healthcare providers

Providers of social services

Pharmacies

Healthcare professionals

eHealth Digital Service Infrastructure

Receivers of medical certificates

Citizens and apps used by them

Main standards

HL7 V3: CDA R2 L3 and Medical Records
HL7 FHIR (Kanta Personal Health Record)
JSON, XHTML (PHR and social services)
PDF/A (old patient data and social services)
IHE IT-I Profiles (imaging and eHDSI)
W3C XML DSig
WS Addressing, WS-I
TLS, X.509

Kanta services

Kanta

Kanta messaging layer

Prescription centre

Prescriptions
Renewals

Dispensations
Reservations

Pharmaceutical database

Medicinal products details
Substitution rules

Prices
Reimbursement rules

Patient data repository

Health records

Encounter data
Structured health records

Imaging infrastructure

Imaging data

Archive of old patient data

Old health records

Data management service

Consent data

Information notices
Consents
Consent restrictions

Will expressions

Living wills
Organ donation wills

Summary service

Problems
Procedures
Lab results
Customer summary for social services

Vaccinations
Imaging studies
Physiological findings

Risks

Data repository for social services

Customer relationships
Customer documents

Service items
Legacy data

Personal Health Record (PHR)

Observations
Questionnaire responses
Other data stored by citizens

Data
lake for
health
and
social
welfare

Other national services

Population register

Demographic
data

Suomi.fi

Authentication
e-Authorizations
Message exchange

HCP and SCP register

Professional rights

Certification service

Certificates
Smart cards

National code server

Code systems
Pharmacy register
Organization register

Terminologies
Data structures

Kanta

Healthcare

Social welfare

Pharmacies

Citizens

System suppliers



Ministry of social affairs and health: Strategic guidance, financing, legislation



Finnish institute for health and welfare

Setting of targets and development path, monitoring of results



Deployment, maintenance and administrative responsibility



EU and international cooperation



DIGITAL AND POPULATION
DATA SERVICES AGENCY

Identification,
authorization and
certificate services



Valvira

National Supervisory Authority
for Welfare and Health

Role and attribute services
Valvira code sets

EHDS and Kanta

General (preliminary) principles

Healthcare providers and pharmacies in Finland will remain obliged to join the Kanta Services	In Finland, the (patient) health data access service will be provided via MyKanta - Other service providers may also establish additional services
Healthcare providers and pharmacies in Finland will remain required to store data in the Kanta Services	Kanta Services will continue to function as Finland's National Contact Point within the MyHealth@EU infrastructure, and patient information systems as well as pharmacy systems must retrieve data from other Member States through it
Information stored in the Kanta Services must remain compliant with national specifications (which will be updated to align with the requirements of the EHDS where required)	Kanta Services compiles a response in the European Electronic Health Record Exchange Format (EEHRxF) from the data stored in the Kanta Services, to be delivered to a foreign entity requesting health data in defined priority categories."
Healthcare service providers and pharmacies operating in Finland will continue to be obligated to use data primarily through the Kanta Services for disclosures between data controllers	Kanta Services may also provide data from Kanta in the EEHRxF format , or in national profile based on EEHRxF nationally, if needed

Rights of natural persons

- MyKanta will act as national electronic health data access services for natural persons and their representatives.
- Majority of EHDS natural person's rights are already implemented to MyKanta. For example
 - Access to electronic health data
 - Give access to health data to healthcare provider
 - Restrict access of healthcare provider
- New features will include
 - Downloading copy of electronic health data in in the European electronic health record exchange format
 - Access to medical images
 - Rectification request
 - Features for other member states citizens

Right of natural persons to insert information in their own EHR

- Kanta PHR won't be a separate service in future. Natural persons can insert information to Patient data repository and local patient registries. Also consent and restriction mechanisms will be aligned with Patient data repository.
- Content (data structures) will be prioritized and specified nationally in co operation with healthcare providers, national projects as digital treatment trials and PH SIG
 - So far the exchange format doesn't include data inserted by natural person except living will and travel history
 - At the moment it seems that first priority in Finland might be Patient-Reported Outcome Measures (PROMs)

Registration of personal electronic health data

- In Finland most of the data from priority categories is already registered in structured format to Kanta services.
 - We are actively cross checking national data structures with draft versions of the format and logical models and participating on commenting and consultation.
- Registering data with other member state's person identification isn't supported yet in Kanta or in EHR systems.

myHealth@EU and Kanta

- Kanta provides national contact point to MyHealth@EU infrastructure
- Cross border services are already in production
 - Kanta converts national summaries and prescriptions to EU PatientSummaries and EU prescriptions.
 - Although exchange format and myHealth@EU leans on current specifications of cross border data exchange, there is most likely going to be changes also to current cross border services
- Kanta will expand current cross border services so that it covers all priority categories

Current situation

- A lot depends on implementation acts. (Deadline on March 2027)
 - The format and its mandatory content
 - EHR requirements (interoperability and logging component)
 - myHealth@EU requirements
 - Requirements for cross border authentication and authorization
 - And so on
- Preparation work is done at xt-EHR project, in which Kela and THL are participating
- THL and STM are coordinating national implementation

Thank you!

www.kanta.fi/en
@Kantapalvelut

EHDS – primary use and Kanta services (planned)

