Dedalus
HEALTHCARE SYSTEMS GROUP

HYDMedia G6

The complete electronic patient file
IHE in HYDMedia G6

Quickly and easily integrate medical data and information

IHE – Interoperability through standards

- Established standards adapted for the health sector
- The right information in the right place at the right time
- Well thought-out concept for the entire clinic and the clinic network
- Consistent use of web technology (ebXML, web services)
- Patient data communication via HL7 v2 or v3
- Network security and encryption using TLS

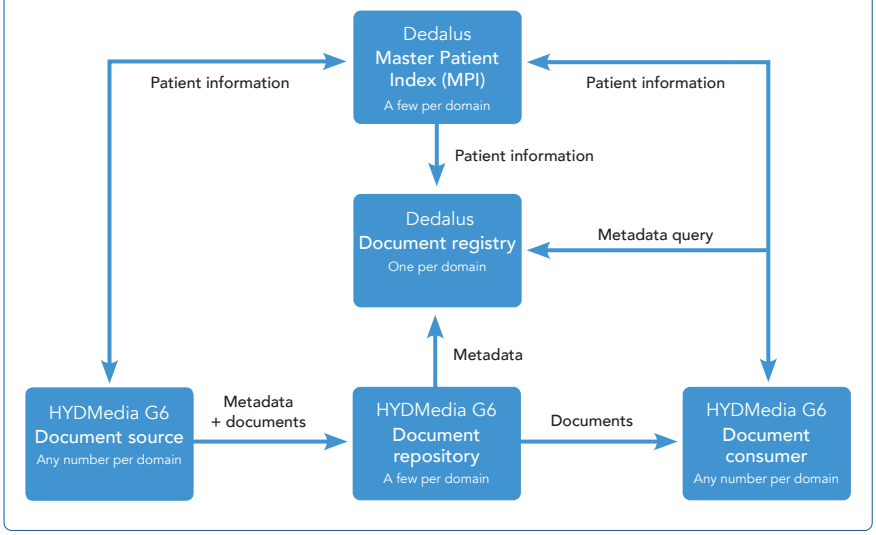
IHE XDS in HYDMedia G6

- XDS – Cross Enterprise Document Sharing
- Exchange of medical data between health care providers (merger into a so-called affinity domain)

Open for all systems and documents

Thanks to IHE and HL7, HYDMedia G6 is able to integrate all HIS and subsystems. In the clinical area, data communication is simplified by standards, such as DICOM for image data or HL7 ADT or MDM for patient and case data and documents.
The specific exchange of data in HYDMedia G6 is freely configurable within these standards. The IHE profiles do not specify standardised processes, but formulate and map concrete scenarios in everyday clinical practice on the basis of existing standards.

HYDMedia G6 – IHE XDS affinity domain
Stakeholders and transactions



An affinity domain is a group of healthcare providers working together on the basis of common guidelines and infrastructure (e.g. health regions, physician networks, disease registries, government institutions, etc.).

Standards are the alternative to individual interface languages

IHE (Integrating the Healthcare Enterprise) is an initiative of healthcare professionals with the aim of improving communication between different IT systems and medical devices. IHE promotes the use of established international standards such as DICOM and HL7 to optimise processes within a hospital, a doctor's surgery or even between healthcare facilities. In doing so, IHE relies on the cooperation of users, implementers and developers. The results are a comprehensive technical framework as an implementation guide as well as a series of test tools for users and manufacturers.

IHE profiles (a selection)	
IHE XDS	
XDS document source	• Generates objects (documents) and forwards them
XDS document repository	• Receives objects (documents) with metadata from the document source and stores them • Forwards the metadata of the objects (documents) to the document registry
XDS document registry	• Storage location for metadata (receives metadata from repository and stores it) • Stores information on which repository the objects (documents) are located • Enables search queries
XDS document consumer	• Submits search queries to a registry • Loads objects (documents) from a repository • Contains display of the loaded objects (documents)
Patient identity source	• Supplies patient IDs and forwards them to the registry
Integrated source/repository	• Combines the functionality of document source and repository; documents created in the system are registered directly with the document registry
XDS document administrator	• Can make updates to already registered documents
IHE PIX	
Patient identity source	• Delivers patient data and information to the PIX manager via patient identity feed
PIX manager	• Stores data from different patient identities
PIX consumer	• Resolves patient IDs from another domain via a PIX query
IHE PIXm	
Patient identity consumer	• Resolves patient IDs from another domain via an HL7 FHIR PIX query
PIX manager	• Stores patient data and information from Patient Identity Sources and provides this to the PIX consumers.
IHE ATNA	
Audit repository	• Location of all audit messages • Central time server for synchronising the ATNA actuators
Secure node	• Grouped with another IHE actor (e.g. XDS repository) and used for security (auditing and/or authentication)
IHE XUA/XUA++	
X-service user	• Provides information on the identity of a logged-in user for transactions • This information is used in audit messages and is used to check access authorisation
X-service provider	• Validates information provided by the X-service user before transactions are executed
IHE XDS-SD	
XDS-SD content creator	• Allows the generation of XDS-SD compliant CDA documents with embedded PDF
XDS-SD content consumer	• Allows the display of XDS-SD compliant CDA documents with an embedded PDF
IHE MHD	
Document source	• Generates objects (documents) and forwards them via HL7 FHIR
Document consumer	• Searches data and can fetch and display documents
IHE DSUB	
Document metadata subscriber	• Can register to receive notification of changes to existing documents
Document metadata notification recipient	• Receives notifications of changes to existing documents

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