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A future-proof architecture for telemedicine using loose-coupled modules and HL7 FHIR

Kirstine Rosenbeck Gøeg , Rune Kongsgaard Rasmussen ,
Lasse Jensen , Christian Møller Wollesen , Søren Larsen ,
Louise Bilenberg Pape-Haugaard

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Highlights

- Telemedicine systems constitute a heterogeneous landscape with limited interoperability
- Core requirements for future telemedicine architectures were analyzed
- Requirement analysis showed that small-module flexibility combined with the use of international standards was crucial
- We designed an architecture and evaluated the feasibility by developing an open source implementation of the system called ORDS
- All modules have been tested and works as expected, showing that highly adaptable and yet interoperable solutions in telemedicine are a possibility.

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