

# **InterDataNet: an Infrastructural Approach to Data Interoperability to Enable Computer Supported Collaborative Applications**

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## **Abstract**

Distributed information interoperability is crucial for the development of computer supported collaborative applications. We recognize two main factors inhibiting extensive data interoperability: one is the lack of “Web of Data” solutions allowing greater granular addressability and management of elementary data; another is the lack of suitable “Web of Data” infrastructural solutions providing the basis for the development of specific applications. We present InterDataNet (IDN) layered middleware architecture. IDN is based on the adoption of a shared Information Model (IDN-IM) and the management of such model operated by a Service Architecture (IDN-SA) providing collaboration-support functions. The InterDataNet name aims to put to evidence the goal of achieving interoperability among networks of data (interdataworking). IDN proposes itself to act as an interoperability application-independent middleware, supporting distributed information management to enhance interoperation and collaboration. Basic concepts and specifications which are grounding development of an IDN demonstrator are reported and discussed.