

# Outpatient Monitoring System Using Cloud Computing

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**Abstract:** *Successful adoption of Electronic Health Records increases patient safety and quality of treatment, but it requires interoperability across Health Information Exchanges at various institutions. The HL7 document format is a key document standard that ensures such compatibility, and its spread is crucial for interoperability. Except in a few countries, hospitals are hesitant to use interoperability due to the high cost of adoption.*

*Even when more hospitals begin to employ the CDA document format, an issue occurs since the data is distributed over several pages and is difficult to manage. In this article, we discuss our CDA document creation and integration Open API service, which is based on cloud computing and allows hospitals to produce CDA documents without purchasing proprietary software.*

*Our CDA document integration technology combines numerous CDA documents per patient into a single CDA document, allowing clinicians and patients to explore clinical data chronologically. Our CDA document production and integration solution is cloud-based, and the service is available through an Open API. Developers utilizing various platforms may thus utilize our technology to improve interoperability.*

**Keywords:** CDA, API, Patients records, Developed by HL7 Core Document