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Federated RHIO solution for HR healthcare data protection

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Uniqueness of Business Models has made modern communication very complex. Each model carefully designed with a very specific strategic direction and edge. Models now have captive and vendor co-existence. Global offshoring, Mergers & Acquisitions (M&A), Joint Ventures (JV) all add to the complexity of these models as transitions, Business Process Re-engineering (BPR) inflict radical changes. As enterprises fight their survival in the volatile world markets, more new successful models evolve. Enterprises are now redefining themselves using flexible multi-layer architectures that can encapsulate value-services into a Service-Oriented Architecture (SOA). Data has always been considered as a top notch business asset for an enterprise. The levels of information handled by an enterprise now determine its competitive edge. HR data can also have different levels of sensitivity. Directory data, appraisal indexes, payroll figures and medical data have different confidentiality levels. Access to these data, located at diverse locations and platforms create security challenges. This research paper analyzes medical architectures like federated architectures and Regional Health Information Organizations (RHIO) in correlation with successful multi-layer business solutions and then proposes a secure architecture that focuses on secure access of HR sensitive data accessed from enterprise-wide locations.

Biography

Dr Jayanthi Ranjan is a PhD from Jamia Millia Islamia central university, India in the field of data mining and has more than 18 years of teaching experience. She graduated from Venkateswara University, Tirupathi with gold medal in Mathematics and University rank. She has done her Master of Computer applications with distinction. She has published various papers on Data clustering, Data Mining, Database security, business intelligence, educational technologies. She has over 120 publications till date. She has 63 international publications in various International Refereed Journals, 15 national conferences and 43 International conference Proceedings till date. She has published vith refereed Journals, 16 national kike in World Scientific, Emerald, Indersceince, ANSINET, GIFT society. She received best papers awards twice. She is also the recipient of 'Best Teacher Award' from AIMA-Ghaziabad Management Association of Management Scholars AIMS International. She is also the recipient of 'Global Management Researcher award 2009', from Association of Management Scholars AIMS International. She is an accredited AIMA management Teacher. She is the Life member Indian Society for Technical Education, Institution of Electronics and Telecommunications Engineering and Indian Association for Research in Computing Science. She is serving on the various International editorial boards for the international refereed journals. She is also the chairperson-International Relations, IMT Ghaziabad.

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