CONSOLIDATING FRAGMENTED IDENTITY: ATTRIBUTES AGGREGATION TO SECURE INFORMATION SYSTEMS

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ABSTRACT
Modern organizations become distributed and maintain multiple identity repositories. This reality promotes spreading identity attributes across information systems and landscaping identity silos. Many security use cases require identity silos consolidation that can be set through identity aggregation. In this paper, we explain within identity management parlance and compare between attributes aggregation conceptual models: meta-centralization, virtual-centralization, and identity federation. We propose also a framework would help organizations to conduct implementation projects of attributes aggregation. A great attention should be paid simultaneously to strategic purpose, aggregation models, architectures, and implementations.

KEYWORDS
Identity aggregation project framework, meta-centralization, virtual-centralization, and identity federation.

1. INTRODUCTION
A famous ancient proverb says: “The larger the fortress, the more vigilant must be its defense”. The advent of Internet-compliant technologies and open standards are easing the extension of information systems by lowering the barriers to connecting disparate business applications both within and across corporate boundaries. Increasingly, information technology architects are asked to define end-to-end business processes that span borders to enable inter-enterprise collaborations and mass integration with partners. Therefore, the current fortress landscape becomes a puzzle of partnering enterprises that should be working