INSIDE R&D ALERT

PROTECTED INFORMATION SHARING IN A DIGITAL ECOSYSTEM

Information sharing is one of the most critical components in the functioning of an enterprise network. However, there has hardly been any control over who could view and access data. Traditionally administrators of an organization have limited control over exchange of information in an enterprise network. Hence, it is important to create an environment, which ensures protection of critical data and also permits sharing of information within various parties in an efficient and auditable manner.

Towards addressing this challenge, Utah-based company, Digital Bridge Technology Solutions has developed a solution called DigitalFusion Platform. The solution aims to capture the transparency in information sharing across the ecosystem of an enterprise. E.P.I.C.C--the Ecosystem, the Packet, the Individual, the Cross-Ecosystem function, and Context feature of DigitalFusion Platform facilitates sharing of information in a protected environment by ensuring that the right to access information within an ecosystem is determined by the individual who owns the information.

The core architecture of the solution consists of a Digital Information Packet, which is considered the workhorse of the platform. Depending on a pre-defined workflow, the governance component instructs the data that has to be procured by the Digital Information Packet. The packet encapsulates data from multiple disparate databases within a digital ecosystem into an intelligent document format which is complaint to both humans and machines. The packet is responsible for maintaining the context, integrity, security, and privacy of the information collected.

The pre-defined governance attribute guides the packet, as it travels through the ecosystem. Hence, it ensures that only authorized individuals gain access to the data or information. A significant aspect of the solution is that, it maintains a detailed log containing a list of all the transactions which take place during the workflow. The log provides intricate details such as the nature of action performed on the data. The installation of the solution does not require replacement of the existing system, which serves as its added advantage.

The solution developed by Digital Bridge has the capability to enhance the efficiency of a process. For example, while considering the case of executing an arrest

warrant, multiple autonomous agencies and departments such as the judge, prosecutor, and police are expected to provide their inputs. These agencies are forced to carry out the process manually, even though they work within a single ecosystem. The complete process takes about 3 to 4 days at an average cost of 250$. Talking to *Technical Insights*, Melanie H. Dougherty, director of corporate communications says "The Digital Bridge Platform has the capability to execute the same process in fifteen minutes at an average cost of $20 by providing protected sharing of information within these elements in the ecosystem."

The Digital Bridge solution has been constructed in accordance with the digital ecosystem theory and needs of the digital ecosystem market. This novel solution facilitates a streamlined process for secure sharing of information between multiple entities within an enterprise network. The digital fusion platform can potentially cater to a wide range of applications which include healthcare, education and banking. The advent of the Digital Fusion Platform has addressed the need to share information between various parties in an efficient and auditable manner, thereby playing a vital role in augmenting the work flow and protection of critical information.

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