AppComm™ Technology

Connectivity to data is a fundamental requisite of any form of data or application integration. Every integration pattern relies on the ability to access data sources and destinations. Historically, integration platforms have pushed the responsibility out from the core of the pattern, usually by requiring data coming in and going out to be handed off in a specific, acceptable format. This has typically been handled by adapters that absorb at least some of that responsibility, coded to access specific data from an endpoint and provide it to the integration tool in the form the tool requires. SOA and other standards have been defined to assist in this exercise, however in the end, one still has to figure out how to get every endpoint of interest to speak in that standard.

Stone Bond's Enterprise Enabler® is the only integration platform that does not impose anything on the endpoints at play. Using its AppComm technology, it accesses multiple endpoints simultaneously in each endpoint's native form and hands off in tandem to Enterprise Enabler's native transformation engine. The transformation engine issues instructions across multiple AppComms to validate, federate, align, and transform incoming data for physical delivery via an AppComm to the destination as it natively requires. If the federation is to be delivered on-demand as data virtualization, the integration is packaged as an "Enterprise Master Service," which is queried using any number of standards, such as ODBC, JDBC, OData, Web Services, REST, JSON, SharePoint external list, and others.

CORE CAPABILITIES AND FEATURES

- AppComms are configured once for a specific type of endpoint. For example, an SAP endpoint, Excel spreadsheet, Oracle database, RFID, any electronic equipment, meters, web services, etc. Stone Bond has hundreds of these available off the shelf.
- The appropriate AppComm is then configured via UI for a specific endpoint and a specific subset of the data available from that endpoint.
- AppComms are 100% metadata driven. The design-time AppComm constructs the metadata and the run-time executes those metadata instructions, which may include validation logic and pre- or post-processing of the relevant data.
- Each AppComm knows how to make the most of its one specific type of source, leveraging whatever the range of capabilities are for Read, Write, Update, Delete, for filtering, fine tuning performance, etc. Depending upon the capabilities of the endpoint, the AppComm discovers schemas of the actual endpoint data.
- Queries and filters are handled by AppComms at the endpoint, where possible, as opposed to filtering by the transformation engine itself.
- AppComms make aliasing available for endpoints whose nomenclature is cryptic. That way when the data from a source is being mapped by data analysts, a meaningful field name is used, e.g., "BillingAddress" instead of "ADD-3_3-$$."
- AppComms assist in handling security, including end user security, and also assists in managing transactions and rollbacks.

