



Bayanat

**BAYANAT INTEGRATION
AND ORCHESTRATION
SERVICES**

BAYANAT INTEGRATION SERVICES

According to Gartner, "Through 2020, integration work will account for 50% of the time and cost of building a digital platform", this is of course due to the distributed computing environments and heterogeneous systems organizations are dealing with today.

We can easily define Integration as the foundation for a successful Digital Business, as while the world is targeting Digital Transformation and achieving Paperless/Contactless environments; the necessity of the "Glue" that connects all parts of the big puzzle together is getting tremendous.

An integrated environment can provide a business with the connectivity and homogeneity to overcome operational and IT challenges that could hinder the flow of their processes. Integration and Orchestration can reduce operational cost, improve the business productivity and enhance customer and employee experiences through seamlessly connected processes and a smooth

flow of information across all systems.

In light of the above, Bayanat have formed an Integration and Orchestration Function within their eSolutions Department with a specialized team to handle all types of integration needs across projects implementations, utilizing state of the art technology including AI, ML and BPA.

Bayanat dedicated Integration Team is highly specialized to design, plan and apply integration practices weather it was part of the implementation or a separate project. Bayanat team are specialized in different integration models.

Based on the level of integration, technologies in use, and nature of the project.



Achieve Business Agility and Efficiency, Minimize your IT Systems TCO.



DIGITAL TRANSFORMATION PLATFORM

Organizations today are running distributed computing environments with multiple systems running on different technologies, typically with legacy systems running in the core of their operation. In such environment, integration becomes imperative to bring these systems together, generate connected workflows and a complete process lifecycle to become more adaptive to change, agile, productive and business-smart.

This is where Bayanat Digital Transformation Integration Platform comes in to connect distributed systems and boost functionalities across the environment in order to facilitate Digital Transformation and Business Agility using Microservices Architecture.

For this model, there is no specific technology considered for implementing the integration solution, it all depends on the systems included in the integration project, the required level of integration, and the best practices and trends for these systems.

DATA EXCHANGE PLATFORM

In this service model, the integration is held on the data level, where a Consolidated Hub for data is created in preparation for a Datawarehouse or any other BI solution.

Bayanat have created their own Consolidated Data Hub Model – **Bayanat Data Exchange Platform (DXP)** that provides an accelerated approach to plug in and start executing the integration project right away.


Bayanat DXP is a complete data integration and consolidation platform, that enables automatic, pre-scheduled data gathering from various sources with different formats, into one central database; providing a reliable and consistent repository to support diverse business purposes, like: Decision Support Systems, Detailed Inspection and Analysis Systems, among others.

Bayanat DXP handles all data transformation activities, and reduces administrative burden pertaining to managing

schedules, in addition to handling failure scenarios. The multi-channel support and technology connectors' framework within **Bayanat DXP** allow it to integrate with various data sources despite possible technology diversity. This makes **Bayanat DXP** an ideal solution for such entities who wish to collect bulk data periodically and make it available within its premises to ensure fast and guaranteed access, and hence, a higher service level.

Bayanat DXP Components

- **The Data Extraction Server (DES)** that manages the processing and consolidation of collected data into the central target database.
- **The Data Extraction Agent (DEA)** that automates and manages the data extraction and transformation at data source side.



Boost the Speed of Information Flow Across Systems; Enhance your Decision-Making Process.



Middleware Implementation

This model is performed at the middleware level, where Bayanat team builds a complete Middleware Platform to handle and unify current integrations at customer's site, and to enable any further integrations to be built seamlessly with loose coupling techniques applied.

For such projects, Bayanat adopt the SOA concepts and tools to build desired Middleware integration points such as SOA Suite, Enterprise Service Bus and BPM workflow (if needed).



SERVICE ENABLEMENT

This type of integration services is performed as a separate service rather than a complete project. It usually is targeted towards enabling one service or implementing integration practices for one system; accordingly, the choice of technology and approach is made based on the nature of the system and integration requirement.



**Connect your Desperate Systems,
Provide a Consistent Experience for your
Customer and Employees!**

CONNECT-TO-PAY

Connect-to-pay is mainly a smart middleware solution that connects internal applications with payment networks and clearing channels, including Real Time Gross System (RTGS), Automated Clearing House System (ACH) or Instant Payment Solutions (IPS).

Derived from the Middleware Implementation Model, the Connect-to-pay Integration Model is focused on integrating the Payment Gateway at Central Banks or other financial authorities with member banks through main Digital Payment components, like the RTGS, ACH or IPS.

The systems are deployed centrally at the Central Bank or other authorities to provide a consolidated

functionality where payment instructions of participants are processed and settled continuously on an individual basis, to ensure compliance and unified control over the process.

As the co-implementer of the CBJ Gateway and the National IPS system at JoPACC (CliQ), in cooperation with CMA; Bayanat possess the capacity and expertise to build and deploy RTGS, ACH and IPS components within member banks and financial institutes, and implement seamless integration with the main gateway at the CBJ in order to complement the overall national Digital Payment Platform.



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