

# ENABLING ENTERPRISE DATA COMMUNITY, AGILITY, AND EFFICIENCY

## xAQUA® Unified Data Platform (UDP 2.0)

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### Abstract

Enterprises are struggling to deliver trustworthy data story because of the challenges resulting from rapidly accelerated and exponential growth in the volume of complex siloed data and the varieties of data types. While addressing these challenges, organizations are also facing challenges that are being the primary roadblocks for the success of their data initiatives such as *ever growing technology complexities, the disconnected data, process, people and tools, and the monopoly of data knowledge.*

xFusion' s **xAQUA® Unified Data Platform (UDP 2.0)** holistically addresses these challenges and enable establishing *enterprise data community, agility, and efficiency.*



## The augmenting inhibitors for your Data Story

Enterprises are struggling to solve the challenges resulting from rapidly accelerated and exponential growth in the expanding volume of high velocity, complex and diverse types of data. The challenges are augmented with the lack of interoperability between siloed data and the trust worthiness of data.

While addressing the data challenges, organizations are realizing the three key inhibitors that are the primary reasons for the failure of most of the data projects and being the major roadblocks for enterprise data community, agility, and efficiency.

### 01 Growing Technology Complexities

The exponentially growing data challenges have triggered the creation of many complex tools and technologies at the same rate that is making it difficult for every organization to keep up with the pace. The technology complexities combined with the lack of expertise is becoming a major hindrance for most organization to be successful with their data projects.

### 02 The Disconnected Data World

Absence of a holistic strategy, approach and plan has created disconnected data, tools, technologies, standards, people, and operations across the enterprise. The disconnected world is the biggest inhibitor for enterprise data community, agility, and efficiency.

### 03 Knowledge Monopoly

In most cases, the data knowledge is owned by a few Subject Matter Experts (SME) within the organization. This creates critical dependencies on them resulting in high risks and cost, low agility, and low efficiency.

## Our Solution

xFusion is actively working addressing the above challenges for many years. xFusion's **xAQUA® Unified Data Platform (UDP 2.0)** holistically addresses those challenges.



xAQUA® UDP is a Single, Unified, and Low Code/No Code data platform solution that delivers end to end data lifecycle functions - **Integration, Interoperability, and Insight (3i®)** with integrated Data Management and Governance functions augmented by Machine Learning and Artificial Intelligence (ML/AI).

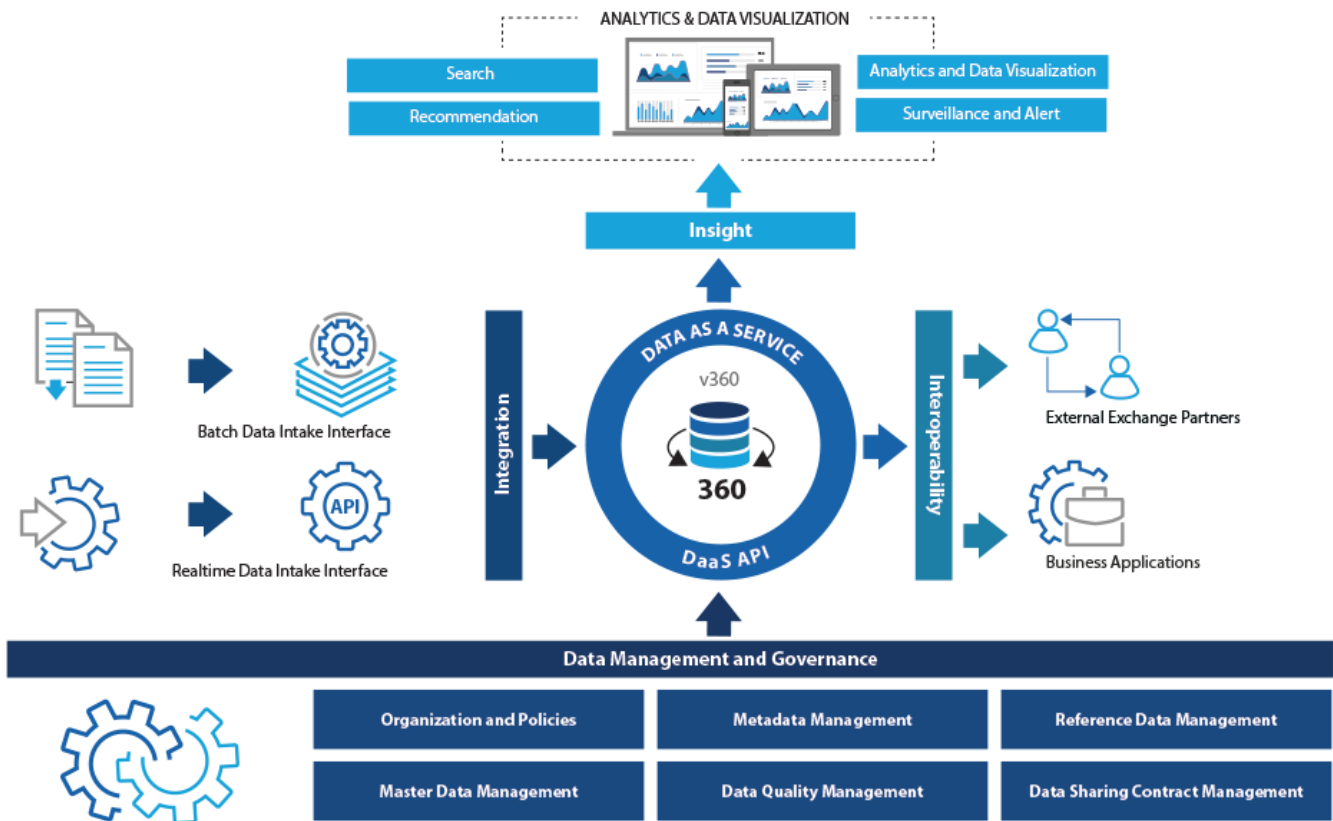


Figure:1 xAQUA® Unified Data Platform (UDP 2.0)

**Integrate Data:** As shown in the above diagram, with xAQUA® Unified Data Platform (UDP 2.0), you can rapidly integrate structured and unstructured data from various data sources using user interface driven low code/no code approach and establish 360 degrees view of the integrated data.

**Share Data:** The integrated data can be shared with other systems and external partners using our data sharing capabilities that allow managing data sharing agreements, data sharing approval process, and automated sharing of data in real-time and in batch mode.

**Deliver Data Story with Actionable Insight:** xAQUA® Unified Data Platform (UDP 2.0) comes bundled with various out of the box capabilities for visual data analysis, query, and data science that leverages the power of Graph database technology and connected links between the data entities. In addition, any JDBC compliant reporting tool such as Tableau, Power BI, and ClickView etc. can be integrated to our solution.

xFusion's xAQUA® Unified Data Platform (UDP 2.0) establishes a new standard in delivering enterprise data functions – *Integration, Interoperability and Insight (3i®)*

**Perform Data Management and Governance:** xAQUA® Unified Data Platform (UDP 2.0) provides

intuitive user interfaces for the Data Owners and Data Stewards to manage and govern various data roles, manage metadata, master data and reference datasets, configuration, rules and policies related to data integration, data sharing, entity resolutions etc.

**Protect the Security and Privacy of Your Data:** xAQUA® Unified Data Platform (UDP 2.0) has integrated Risk Based Security and Privacy Framework in compliance with various security standards such as NIST SP800-53, NIST SP800-63, and FIPS-140-2. The UDP has granular level access control and auditing capabilities by using industry standard tools and technologies that support access controls at the data element level, as well as any derived views. The Role based access controls (RBAC) supports both groups of users as well as organizations, and each organization will only be able to access their data by source. This is enabled by our data lineage capability, tracking the source to the organization, resulting in granular level data controls. The Data as a Service (DaaS) APIs are protected through end point security and our data-at-rest encryption security controls protects the security and privacy of data at rest.

The xAQUA® Unified Data Platform (UDP 2.0) shown above (Figure 1) delivers the data integration, interoperability, insight, and data management and governance functions using low code/no code approach as presented in the following playbook (Figure 2).

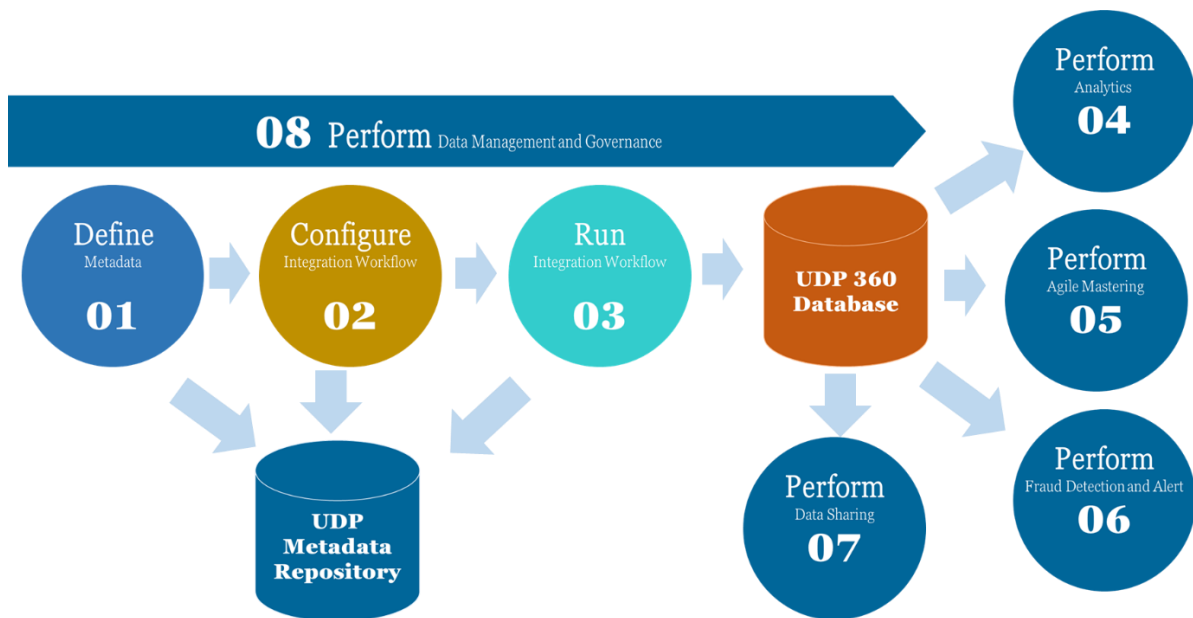


Figure 2 xAQUA® Unified Data Platform (UDP 2.0) Playbook for No Code/Low Code Approach

## Our Solution Recipe

### Single integrated platform

for diversified data roles to coordinate, collaborate, manage and govern.

The connected data enterprise!



### Democratize enterprise data knowledge

through self-service data knowledge and research.

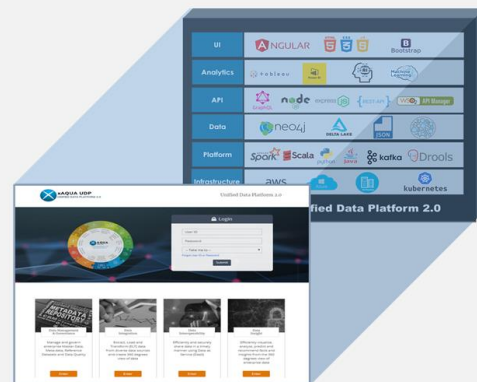
Reduce Risks and Cost associated to knowledge monopoly.



### Reduced risk of growing technology complexities.

The technology complexities are abstracted from the users through intuitive and interactive user interfaces that allow configuration driven low code/no code implementation.

Focus on creating business values rather wasting effort on solving ever growing technology complexities.







**Deliver trustworthy data story .**

Leverage the power of connected data and connected data science in the graph database. Built-in visual data analysis and data science capabilities that leverage the power of connected data. Integrated metadata management, agile mastering and data quality management to continuously improve your data trust.

**Rapidly establish 360 degrees view of your data that you can fully trust.**

Powered by actionable metadata and integrated master data management capabilities.



**Securely exchange, store and access sensitive data.**

Integrated Identity and Access Management (IdAM) solution. Built-in Risk Based Security and Privacy Framework in compliance with NIST, HIPAA and others.



## Key Ingredients



### Smart Technology

Born in this Era!!  
 Founded on top of best of the breed modern open source technologies and open standards ensures solution agility, flexibility and efficiency.



### Integrated Solution

Integrated capabilities for end to end data lifecycle functions in one single platform.

No disconnected dots!!



### Automated Delivery

Capabilities for rapid iterative delivery of business values through automated CI/CD pipeline using Cloud First and DevOps First approach.



### Security and Privacy

Built in Security and Privacy controls implemented using industry leading Identity and Access Management tool and Security Standards.



### Scalable and Elastic Architecture

Scalability and Elasticity ensured in every layer of the solution from Infrastructure, Solution Platform to Application.

## Why xAQUA® Unified Data Platform (UDP)?

**01** Simple, Integrated and Automated

**02** Business Friendly and Collaborative

**03** Faster Delivery of Business Values – Trusted Data and Deep Insight

**04** Agile and Adaptive Solution

**05** Lower Security, Technology and Compliance Risks

**06** Lower Cost (CapEx and OpEx) and Risk

**07** Maximize investment on Business Value Creation

**08** Enhanced Data Quality and Trust

## About xFusion Technologies, Inc.

xFusion Technologies, Inc. is a State of California Incorporation, head quartered in Rancho Cordova, California, with offshore enter in Kolkata India. xFusion is an expertise-based organization that specializes in serving various Public and Private sector organizations. xFusion offers a full spectrum of IT services in the areas of Enterprise Architecture, Legacy Systems Modernization, Custom Product Development, Outsourced Product Development, and Data Engineering.

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