

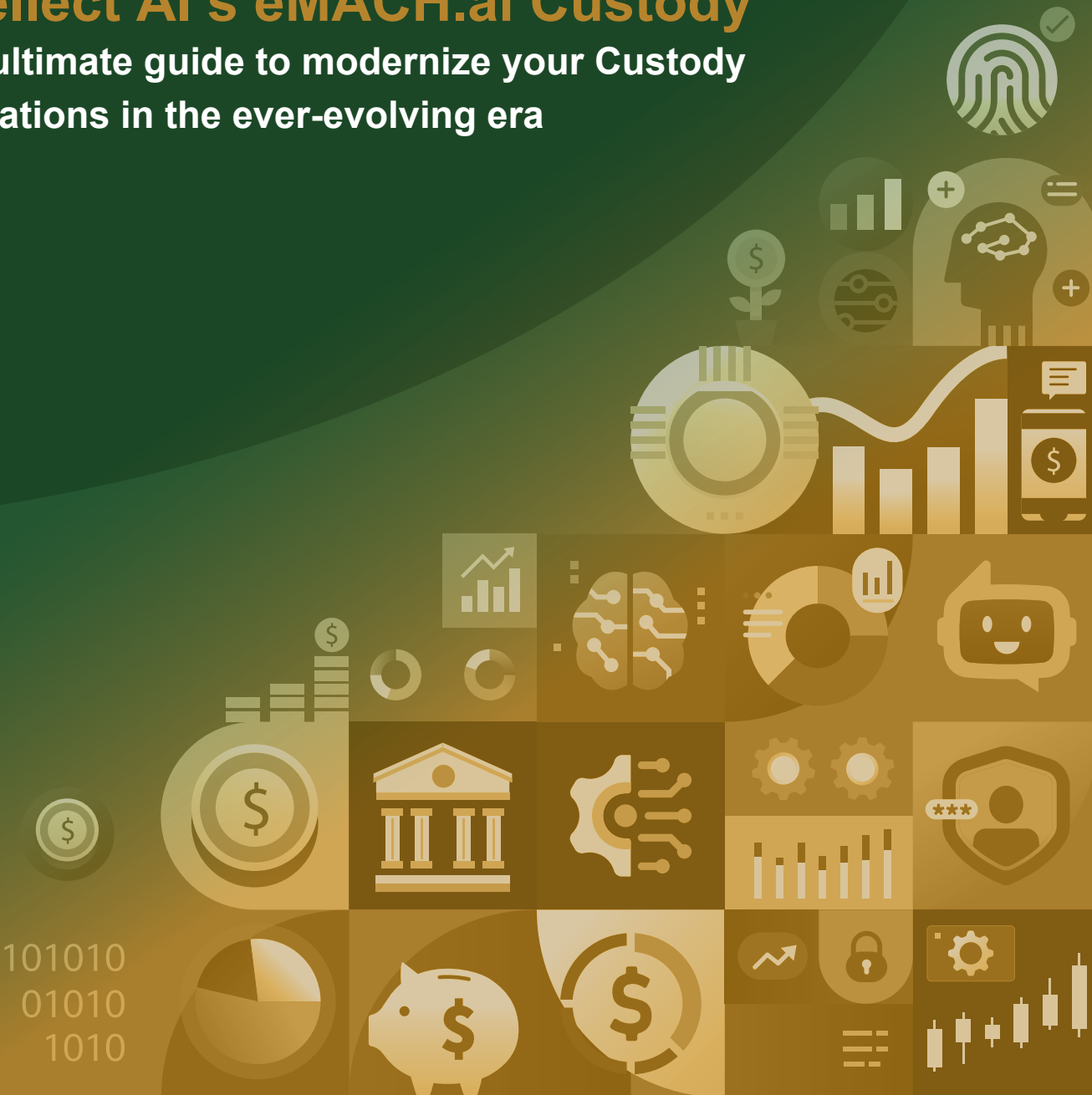


**CUSTODY**

END-TO-END  
CUSTODIAN SERVICES

# Intellect AI's eMACH.ai Custody

The ultimate guide to modernize your Custody Operations in the ever-evolving era



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## Custody Industry Overview

The Custody landscape is experiencing profound changes driven by globalization and technological advancements, necessitating innovative solutions to maintain profitability and efficiency. The Custody service market reached \$ 38,110.7 million in 2022, having grown at a compound annual growth rate (CAGR) of 7.0% in 2017, with projections reaching \$63.06 billion by 2028. The custody services market price is expected to grow at a remarkable CAGR from 2023 to 2030. This expansion is fueled by technological advancements, global market integration, and the rise of alternative assets such as private equity, real estate, and cryptocurrencies.

Key trends shaping the industry include adopting artificial intelligence (AI) and cloud computing to improve efficiency and scalability. Furthermore, Environmental, Social, and Governance (ESG) considerations are becoming increasingly integral to investment strategies, influencing the sector's evolution.

In the evolving era, digitalization is becoming increasingly important for strengthening investor trust and supporting the future development of the Custody Industry. As custodians adapt to these dynamic conditions and navigate stringent regulatory changes, they are paving the way for future innovations and setting a promising trajectory for growth.

## Transforming Custody operations with eMACH.ai Custody

Holding the position of market leader in Custodial services since 2005 starting from India, with six prominent custodial banks in the country utilizing our solution, to our journey's expansion globally extending across Kuwait, Bahrain, Oman, Jordan, Egypt, and South America. Our flagship product - eMACH.ai Custody is a masterpiece designed on a unique eMACH.ai architecture, offering a seamless fusion of advanced technology, operational expertise, and unwavering security.

Being ISO 15022 compliant enables a high rate of STP (Straight Through Processing) helping custodial banks and asset service providers to stay ahead of the competition by meeting global standards in local markets. We ensure they gain a competitive advantage while addressing the increasing challenges of tightened trade settlement timelines and rising cost-income ratios.

With high volume scalability and resilience, we have created a new paradigm, helping Custodians worldwide to achieve unprecedented levels of efficiency and thrive in a rapidly evolving market landscape. With eMACH.ai Custody we are not only safeguarding assets - but also redefining the future of financial technology.

Having market-ready capabilities like open API standards, User First based design and enhanced reporting, we help you strategize your business operations to the highest international standards, while in full compliance with local regulations by navigating country-specific regulatory requirements from financial and governmental bodies, ensuring comprehensive data management and easy integration with core banking institutions.

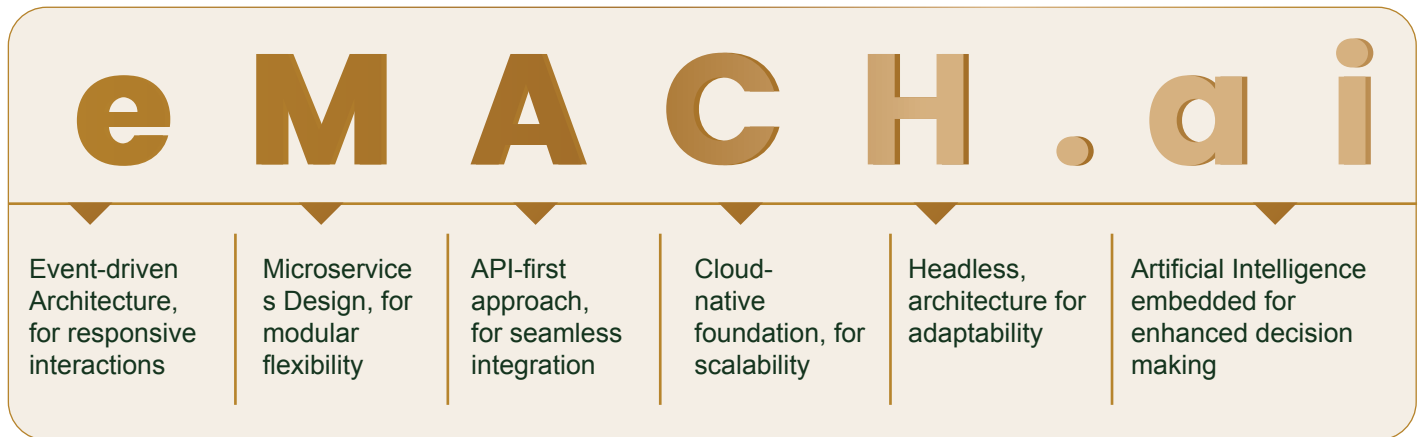
# Technology Advancement

## eMACH.ai Custody

**Scalability → Composability → Efficiency →  
Automation → Independency → Transformation**

eMACH.ai Custody leverages technology to provide a robust, scalable, and secure platform for custody operations. The solution is built on eMACH.ai, the Scalable and Flexible architecture, that helps custodians excel by addressing the dynamic challenges inherent in the financial industry – from managing increasing transaction volumes with the evolving settlement cycles, to providing instant insights and visibility into trade status, enhancing your system’s operational performance.

The architecture boosts a robust and proven design, underpinned by cutting-edge functionalities:



By leveraging the expertise of <https://emach.ai/> you can tap into its specific components. Depending on the requirements for your Custody Solutions – be it the complete need of an end-to-end Custody suite or the need of only any specific module for example: our advanced matching engine module as a standalone solution, you have the flexibility to enhance your existing infrastructure.

### eMACH.ai architecture helps you move from “Current Landscape” → “Ideal Horizon”

<u>Current Landscape</u>	→	<u>Ideal Horizon</u>
Manual Process	→	Hyper Automated Operations
Limited Transparency	→	Real-Time Visibility
Inefficient Communication	→	Seamless Omni-Channel Collaboration
High Risk of Errors	→	Zero-Touch Compliance
Inability to Scale with Growing Demands	→	Scale using Cloud-Based Infrastructure

## Security Measures

- Data encryption at rest and in transit (AES-256 and TLS)
- Advanced threat detection and prevention
- Multi-factor authentication and access control
- Regular security patches and updates

## Data Privacy

- Compliance with major data privacy regulations
- Data anonymization and pseudonymization
- Access controls and audit trails

## Integration Capabilities

- APIs (REST and SOAP) for seamless integration with existing systems
- Support for industry standards
- Pre-built integrations with popular platforms and systems

## Overview of Technology Behind eMACH.ai Custody

- eMACH.ai Custody utilizes a modern technology stack, including:
- Java 17 for the application layer
- Spring Boot and Spring Batch for the framework
- Apache Kafka for event-driven architecture
- Docker and Kubernetes for containerization and orchestration
- OpenShift, AWS and Azure for cloud infrastructure

## Product Essence

- Multi - Asset, Multi-Currency, Multi - Depository, MultiLingual
- Automated and Real time Settlement with Global Depository
- Omnibus Account Maintenance
- Exhaustive Rule driven Flexible Billing Engine
- Robust Recon Engine with Internal Systems

## Key Differentiators



### Real-time Processing

Enables swift and efficient processing of trades across asset classes and markets.



### Automated Instruction Exchange

Streamlines communication between counterparties, reducing errors and operational risk.



### Multi-Asset Support

Handles Equities, Debts and Mutual Funds



### Global Market Coverage

Supports cross-border transactions across multiple markets and jurisdictions.



### Straight-Through Processing (STP)

Automates the trade lifecycle, minimizing manual interventions and reducing errors.



### Advanced Security and Compliance

Ensures robust security measures and compliance with regulatory requirements

## Benefits

1



### Efficient Processing

Real-time processing and automated instructions exchange reduce processing time and operational risk

2



### Global Connectivity

Multi-market support and connectivity enable seamless cross-border transactions.

3



### Enhanced Security

Robust security measures and data privacy controls ensure the safety of assets and client information.

4



### Improved Customer Experience

Faster processing and reduced errors lead to increased customer satisfaction.

5



### Increased Efficiency

Automation and straight-through processing reduce operational costs and minimize manual interventions.

6



### Reduced Cost

Market-ready solution, cutting implementation costs for businesses seeking a swift and efficient deployment.

7



### Reduced Risk

Real-time monitoring and automated controls mitigate risk and ensure compliance with regulatory requirements.

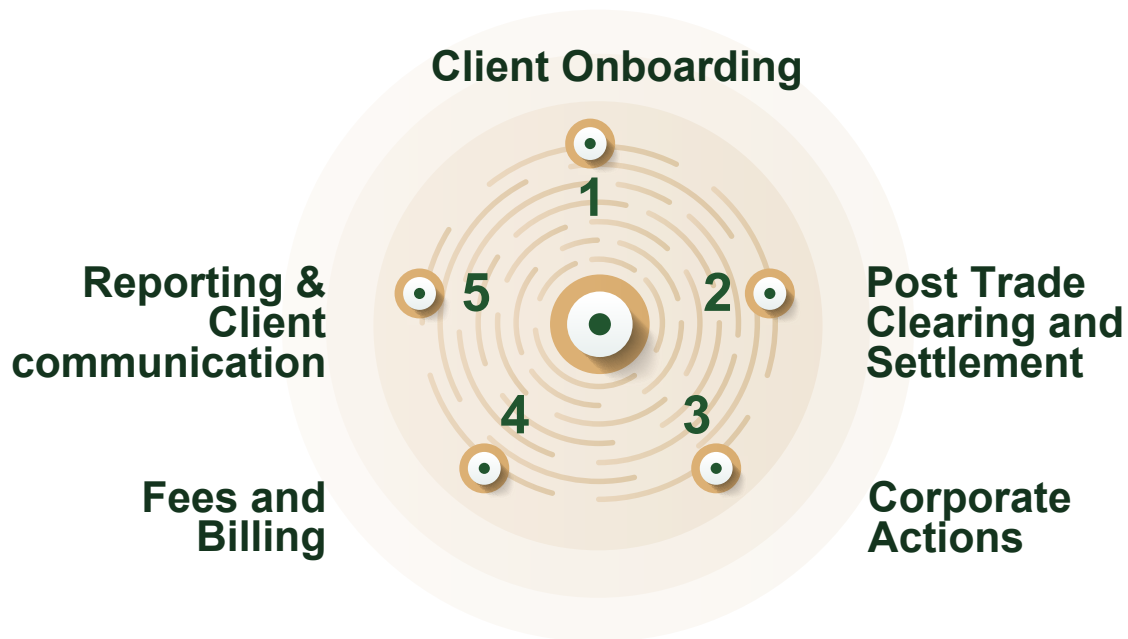
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### Scalability

eMACH.ai Custody adapts to growing business needs, supporting expansion into new markets and asset classes.

## End-to-End Custody Life Cycle Management



## Embedding AI through Purple Fabric in eMACH.ai Custody

As we gaze into the future of Custody Solutions, we envision the seamless integration of Purple Fabric, our self-service generative AI platform. The Enterprise Grade Platform harnessing the power of AI is designed and democratized for subject matter experts, enabling them to quickly build and deploy end-to-end AI solutions, without the requirement of technical expertise or coding knowledge.

- **This synergy will unlock:**
- **Unprecedented Efficiencies**
- **Risk Management capabilities**
- **Client Insights**

By embedding Purple Fabric's advanced AI capabilities into the custody platform, together it can revolutionize the securities services landscape, enabling predictive analytics, automated workflows, and data-driven decision-making. This forward-thinking approach will not only enhance Custody Solutions but also will set a new standard for innovation in the industry.

## Navigating the Custody Challenges

The Custody Industry faces incoming challenges in safeguarding assets, managing risk, and meeting regulatory requirements. As financial institutions navigate complex global markets, they require solutions that ensure security, transparency, and efficiency. To address these obstacles, Intellect Design arena has established itself as a preeminent player in the Custody Industry, with its flagship product eMACH.ai Custody providing through this platform innovative solutions and investing in digital transformation, advanced analyzing and strategic partnerships to deliver future proof custody services. With a Global Presence developed by our experts that have an extensive knowledge and experience in:

- **Securities processing and custody operations**
- **Cross-border transactions and multi-market support**
- **Regulatory requirements and compliance**
- **Financial messaging and communication protocols**
- **Integration with various asset classes**

## Product Implementation

At Intellect Design Arena, we understand the importance of a seamless implementation process and ongoing support for our clients. Our experienced team ensures a smooth transition to eMACH.ai Custody with:

- **Project management and planning**
- **Configuration and customization**
- **Data migration and integration**
- **Testing and quality assurance**
- **Training and go-live support**

Our implementation and support services ensure minimal disruption to your operations, allowing you to quickly realize the benefits of eMACH.ai Custody.

eMACH.ai Custody transforms cross-border custody operations with efficient, secure, and scalable solutions. Leveraging cutting-edge technology and industry expertise, we help your business succeed in a changing financial landscape. Experience the future of custody operations with eMACH.ai Custody.

**To know more please contact,**

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