CGI Centaur

An all-in-one risk management platform delivering fraud detection, transactions screening and customer due diligence capabilities
What is CGI Centaur?

CGI Centaur is a versatile and complex financial crime and risk management platform. It provides real-time monitoring and big data analysis for customer activities and identifies potential fraud. When anti-money laundering, customer due diligence and fraud detection systems operate using the same data sets, why use multiple solutions?

CGI CENTAUR CORE FEATURES

**FDS**
**Fraud Detection System**
Protection of customer funds and data

**CDD**
**Customer Due Diligence**
Protection of banks from risky customers

**AML**
**Transaction Monitoring**
Protection of society from money laundering

Real-Time Digital Client & Transaction Behavior

**Real-time data scanning is a must for successful fraud prevention**
People today are sensitive about their security. Repetitive fraud will eventually lead to the loss of customers and revenue decline. Further, institutions are required to implement anti-fraud measures by law. If they fail to provide clear evidence that measures have been implemented based on the latest compliance requirements, they will face formal investigation, with the possibility of heavy fines.

**Smart solution for any financial institution**
We provide an out-of-the-box solution that can be integrated within any bank environment and can begin AML detection in a surprisingly short time while providing outstanding quality. The CGI Centaur CDD module manages customer data and activities using modern delta screening algorithms and intelligent re-scoring algorithms. This smart solution significantly reduces total cost of ownership.

**Online processing of customer transactions**
CGI Centaur is able to process all customer transactions online and suspend suspicious transactions while submitting them for investigation. Sources and destinations are further analyzed. In addition, behavioral profiles are calculated and then used to detect divergences potentially leading to money laundering activities.

**Adaptive Authentication Use Case**
A customer would like to make a standard online payment. Based on CGI Centaur’s fraud prevention approach and behavioral analyses (e.g., of the customer’s chosen payment type, typing speed and geographic location), customer authentication is not needed. In addition to benefiting the customer in terms of convenience, the bank’s costs for SMS authentication or calling also are significantly decreased.

**Proactive Fraud Detection Use Case**
A customer is about to log into her Internet banking account—unaware of malware on her device. CGI Centaur identifies the threat and, to protect the customer’s finances, denies her access to her account. At the same time, it informs the bank, which contacts the customer and decides on next steps.
Market forces are driving significant change in the compliance and risk market

CGI Centaur’s Key Features & Benefits

All-in-One Risk Management Platform

- Fraud detection system with anti-money laundering and customer due diligence processes
- All modules provided through a single solution, single implementation and single license
- Designed to comply with the latest and upcoming regulations to ensure legal compliance and protect the bank’s reputation
- High-performance, real-time risk engine that scans and scores hundreds of transactions per second
- Includes in-memory databases with response times in milliseconds for full support of instant and online payments
- Developed in close cooperation with major banks, with fine-tuned rule sets and treatments for fraud and customer identification

Coverage of All Data & Channels

- White box solution, with full control of decisioning monitoring and processes
- Full data vertical coverage (L1 to L5 Gartner levels)—from device identification to multi-channel big data analysis
- Capability to integrate non-standard internal and external data sources and normalize the data
- Architecture-ready in terms of implementing a third-party solution for advanced device intelligence, case management or other capabilities per client request
- Covers all standard digital banking channels, as well as internal and external data sources, through out-of-the-box interfaces

Investment & Maintenance Efficiency

- Self-learning rules and system improvement through ongoing suggestions for scenarios that increase fraud detection and lower false positive rates over time
- Cost savings through more reliable risk detection using big data predictive and advanced analytics, along with machine learning models
- Cost savings through reduced customer authentication costs, process automation and operational FTE reduction
- Detailed overview of a bank’s risk situation through strong reporting, analytical and visualizations capabilities
- Full deployment possible in six months or less
- Effective and integrated incident case management
- Active-active and rolling updates support for high availability and scalability, even during patching and disaster recovery situations
Innovative technology to meet customer expectations

CGI Centaur is an open, scalable and fully modular platform that is built using the most advanced frameworks. Most of its components can be fully integrated with other systems or omitted. All implemented workflows and processes can be customized based on a client’s specific business needs.

CENTAUR INTEGRATION ARCHITECTURE

CGI Centaur High-Level Architecture Design

Data Inputs

Integration Layer
(MQ, REST, SOAP, Batch,...)

CGI Centaur Risk Engine

Unified Case Management
Third-Party Integrations

In-Memory DB
Reporting

Predictive Model (Machine Learning) Management
Analytical UI

Real-Time Rules Engine
Management UI

AML KYC Functions

Big Data Customer and Transaction Data Store
(Behavioral and raw data store in Hadoop/HBase)
Key findings from our 2017 CGI Client Global Insights report on retail banking

Our financial services business is made up of more than 16,000 people working across 5 continents.

We work with 22 of the top 30 banks in the world and 13 of the top 20 global insurers.

With more than 35 years of experience, we help clients overcome the increasing challenges of competition, consolidation and compliance, enabling them to transform and grow their businesses.

2017 Budget Drivers

- **Digital transformation**: 85%
- **Regulatory compliance costs**: 82%
- **New products or services**: 69%
- **Cybersecurity**: 67%
- **Data analytic capabilities**: 63%

Transformation Challenges

Major challenges to retail banking transformation start with cultural change and risk management.

**Cultural change and change management**

The workforce is aging and lacks digital talent; 57% are looking for new digital talent; open banking is changing how banks do business, with 63% partnering with external providers.

**Regulatory and compliance concerns**

78% of banks are challenged by mounting regulation and control reform while the threat of cyber attacks is increasing (75%).

**Technology and agility constraints**

69% are actively seeking to modernize to reduce costs; agile technology is required to better align IT capabilities with the business for faster value delivery (66%).

**Cybersecurity concerns**

As the market becomes increasingly digital (64% see customers adopting digital as their preferred channel), the risk of cyber threats is rising, with 69% actively seeking to protect the bank from financial crime and regulatory risk.
Founded in 1976, CGI is one of the largest IT and business consulting services providers in the world. Operating in hundreds of locations across the globe, CGI helps clients become customer-centric digital organizations.

We deliver high-quality business and IT consulting, systems integration and transformational outsourcing services, complemented by more than 150 IP-based solutions, to support clients in transforming into digital enterprises end to end. CGI works with clients around the world through a unique client proximity and best-fit global delivery model to accelerate their digital transformation, ensure on-time, within budget delivery, and drive competitive advantage in today’s increasingly digital world.

CGI Centaur contacts:

www.cgi.com/centaur
centaur@cgi.com