

# CGI Trade360

## Application Programming Interfaces

Application programming interfaces (APIs) are a valuable and strategic business tool for trade finance companies. APIs give an organization access to data and functions and make both available for general use across the enterprise. They drive efficiencies and promote agility.

CGI offers out-of-the-box APIs that simplify integration with the CGI Trade360 platform. Fifty plus pre-defined interfaces and well-documented XML messages facilitate incoming and outgoing integration. These messages are delivered through an asynchronous messaging architecture built on the IBM WebSphere MQ platform and provide near real-time and guaranteed delivery to a bank's upstream and downstream systems. In addition, the platform has more than 2000+ RESTful API endpoints that can be used to construct coarse-grained APIs delivered via a JSON format. The combination of traditional XML messages and new REST-based APIs ensures that CGI Trade360 is interoperable with any downstream bank system or third-party platform.

CGI Trade360 APIs follow a common structure and format, delivering robust data sets that eliminate the need for intimate knowledge of the database. Their structure and format simplify processing for a bank's message hub through which messages are transformed and routed to the appropriate bank systems.

CGI provides APIs in the following categories:

### Standard Interface Messages

<p><b>Accounting</b></p> <ul style="list-style-type: none"> <li>Accounting [O]</li> <li>AFS Customer Update [O]</li> <li>FX Rates Upload [I]</li> <li>Interest Discount Rate [I]</li> <li>Unit Cost [O]</li> </ul>	<p><b>Conversion / Synchronization</b></p> <ul style="list-style-type: none"> <li>Instrument Conversion [I]</li> <li>Customer Update [I]</li> <li>Portal Generic Data [I]</li> </ul>	<p><b>EDI</b></p> <ul style="list-style-type: none"> <li>814: FI Issuance Response [O]</li> <li>814: Invoice Submission Conf. [O]</li> <li>820: Payment Order/Remit Advice [O]</li> <li>820: Funding/Maturity Notice [O]</li> </ul>
<p><b>Limits/Balance Processing</b></p> <ul style="list-style-type: none"> <li>Limits Update [O]</li> <li>Real-Time Limits Check [O]</li> <li>Real-Time Limits Response [I]</li> <li>Balance Check Request [O]</li> <li>Balance Check Response [I]</li> <li>Pre-Release Check Request [O]</li> <li>Pre-Release Check Response [I]</li> </ul>	<p><b>Portal Integration</b></p> <ul style="list-style-type: none"> <li>Universal Message</li> <li>Instrument Status</li> <li>Mail</li> <li>Reference Data Update</li> <li>FX Rates</li> <li>Interest Discount Rate</li> </ul>	<p><b>Telecom</b></p> <ul style="list-style-type: none"> <li>SWIFT In [I]</li> <li>SWIFT Out [O]</li> <li>SWIFT BIC Upload [I]</li> <li>SWIFT SSI Upload [I]</li> <li>FedWire Out [O]</li> <li>FedWire In [I]</li> <li>Telex Out [O]</li> </ul>
<p><b>MIS</b></p> <ul style="list-style-type: none"> <li>Balance MIS [O]</li> <li>Bulk MIS [O]</li> <li>Customer Report Extract [O]</li> </ul>	<p><b>Integration Architecture</b></p> <ul style="list-style-type: none"> <li>Message Confirmation [O][I]</li> <li>End of Day [O]</li> <li>Print-Fax [O]</li> </ul>	<p><b>Open Account</b></p> <ul style="list-style-type: none"> <li>Purchase Order [I]</li> <li>Invoice [I]</li> <li>PO Utilization [O]</li> <li>A/R Payment Remittance [I]</li> </ul>
<p><b>Compliance</b></p> <ul style="list-style-type: none"> <li>Compliance Request [O]</li> <li>Compliance Response [I]</li> </ul>	<p><b>Cash Management</b></p> <ul style="list-style-type: none"> <li>Direct Debit [O]</li> <li>Balance Request-Response [O][I]</li> <li>Recent Transactions Req-Resp [O][I]</li> <li>End of Day Transaction Bank Stmt [I]</li> <li>Payment File Upload [I]</li> <li>FX Rate Quote Req-Resp [O][I]</li> </ul>	



### KEY BENEFITS

- Asynchronous messaging architecture provides loose coupling between Trade360 and client banks
- Standard XML interfaces available "out of the box" for common back-office applications
- Secure, highly available, load balanced, scalable RESTful APIs that can access the platform
- Trade Integrator that features a RESTful API gateway to decouple internal and external third-party components such as content management, denied party checking, reporting, RSA authentication, blockchain providers, etc.
- Real-time message delivery to support next generation back-office systems
- Guaranteed "only-once" delivery with confirmations
- Constant monitoring of queue depths and connectivity to quickly identify problems
- Specs and schemes for all messages to speed implementation



## Front- and back-office integration

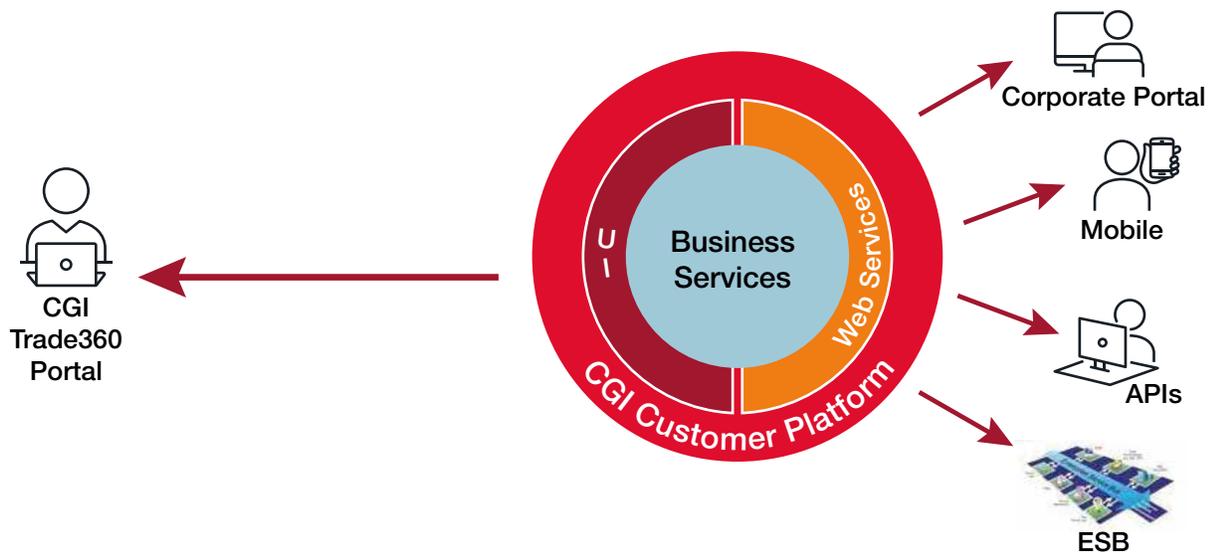
The CGI Trade360 Portal and its back-office Transaction Processing System (TPS) are fully integrated “out of the box” using the above-mentioned portal integration APIs. This loose technical coupling through APIs also supports easy integration of other portals to the TPS, as well as integration of the CGI Trade360 Portal to other back-office systems..

## Omni-channel support

CGI Trade360 APIs support omni-channel delivery. They bring the power of CGI Trade360 portal services to your corporate portal, mobile applications and API platforms.

Banks are currently using CGI Trade360 APIs to integrate trade service functionality with their mobile platforms and corporate wide portals. For client-facing portals, our APIs are providing RESTful Web Services.

In addition, CGI Trade360 APIs enable banks to embed portal capabilities into other products and services.



CGI Trade360’s extensive use of APIs simplifies integration and significantly reduces implementation risks. APIs are a key factor behind CGI’s 100 percent implementation success record.

## About CGI

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world. Operating across the globe, CGI delivers end-to-end capabilities, from strategic IT and business consulting to systems integration, managed IT and business process services and intellectual property solutions, helping clients achieve their goals, including becoming customer-centric digital enterprises.

For more information about CGI, visit [cgi.com/trade](http://cgi.com/trade), or email us at [info@cgi.com](mailto:info@cgi.com).