



BridgeGate International's **BridgeGate™** is a revolutionary advance in universal transformation technology built on top of the extensible and platform-independent architecture for seamless heterogeneous systems interconnection and data interchange.

With **BridgeGate™**, mapping and transformation of essentially any data format may occur over virtually any transport protocol.

A business analyst or knowledge engineer can graphically map source data formats to destination data formats in any permutation, such as one-to-many, many-to-one, or many-to-many, and to specify special transformation and validation rules. The transport protocols can be selected for sources and destinations, independently. Processes and workflows can then be scheduled to accommodate the business requirements.

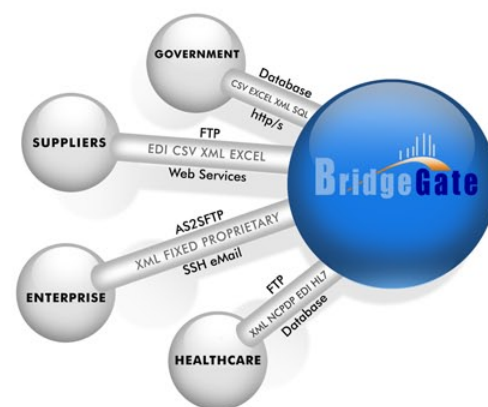
### How **BridgeGate™** Works

The GUI configuration layer is used to create system components including Communications, source and destination Templates, and Schedules in the Process Workflow layer. The Communications specifies the mode of transport, such as FTP, AS2, message queues, email, HTTP/S, socket, Web Services, DBMS connections, etc., using a variety of connection protocols. For any proprietary modalities and protocols, Adapters enable custom interfaces to be easily defined, mapped, and added into the **BridgeGate™** Communications-Adapter layer.

In addition to the communications modes and protocols, transformation and validation rules can specify how to manipulate the egress and ingress data. These metadata are maintained in reusable Templates.

External legacy applications or customized code can be called from and re-enter **BridgeGate™** through its Adapter layer.

**BridgeGate™** transforms data from any format to any other format. It takes incoming data (from any source using any protocol) and transforms it into a form that can be read and understood natively by the destination(s). In short, it is a translator - a universal translator for all kinds of data



### **BridgeGate! provides nine independently layered components:**

1. GUI configuration layer
2. communications-adapter layer
3. map templates 4. plug-in algorithm layer
5. the BridgeGate! TEI Engine
6. process scheduler and workflow layer
7. security infrastructure layer
8. data compression layer
9. portal administration and monitoring facilities.

The **BridgeGate™** TEI Engine handles the work of merging, sorting, splitting, and transforming data. The engine works in conjunction with the Communication(s) and source/designation Template(s) that define the rules used to interpret and process data parameters and constraints. The engine also works with the compression layer for high-performance capability.

In conjunction with the Process Workflow and Scheduler, the engine reads the Communication Map and determines when, and how, to initiate contact with partner entities. The exchange can take place in either real-time or batch mode, according to the business requirements.

Using the Templates, the source and destination data are manipulated according to their defined rules and transported according to Communication Map.

Data throughout the system is protected with the Security layer, which is responsible for handling data encryption, certificate permissions, and other general security issues. **BridgeGate™** comes pre-bundled with a number of standard security features such as 128-bit encryption, GPG, PGP, DES, SSL, and other commonly used encryption algorithms and techniques. Other security systems are easily used as well.

The Administration and Monitoring layer is responsible for enabling efficient and effective system-wide management. Among its many features are (1) transaction auditing, monitoring, and editing, (2) process scheduling, (3) cache management, (4) user account management, (5) cluster management, (6) load balancing, and (7) server migration. Other special features allow communication groups be transferred between servers.

With its event monitoring capabilities, **BridgeGate™** can trigger a notification if a node goes down, and the guaranteed data delivery mechanism ensures that transport will be retried on failure until data are successfully delivered. And, **BridgeGate™** provides a detailed auditing of transactions as well as the editing ability for correcting data anomalies on the fly.

## Conclusion

**BridgeGate™** offers unparalleled flexibility, performance, and security in the universal exchange of data.

The system is designed to allow either a distributed or single-server deployment model, an Application Service Provider model, or embedded within application, and can accommodate the preferences of an IT department with regard to database utilization, file system use, high-availability, error handling, fault-tolerance, and load balancing. Its database, operating system, and file system independence fits easily into existing IT infrastructures.

**BridgeGate™** is unmatched by any other product in the industry.

**BridgeGate™** offers unparalleled flexibility, performance, and security in the universal exchange of data.



*For more information, contact:*

**BridgeGate International**  
Phone: 904-739-0300  
sales@bridgegateintl.com

[www.bridgegateintl.com](http://www.bridgegateintl.com)