

# BUSINESS

## SOLUTIONS

GMV's ongoing endeavor of over twenty years in research and innovation in the information technology field has enabled it to build up an unparalleled expertise and a trailblazing range of new technologies adapted to suit the specific needs of each business.



GMV  
Isaac Newton, 11 P.T.M. Tres Cantos 28760 Madrid SPAIN  
Av. D. João II Lote 1.17.02 Torre Fernão de Magalhães, 7º 1998-025 Lisbon PORTUGAL  
[www.gmv.com](http://www.gmv.com) [marketing.TIC@gmv.com](mailto:marketing.TIC@gmv.com)

 [www.facebook.com/infoGMV](http://www.facebook.com/infoGMV)  
 [@infoGMV](https://twitter.com/infoGMV)

**gmV**<sup>®</sup>  
INNOVATING SOLUTIONS

As global integrators and suppliers GMV provides tailored solutions including hardware and software platforms, professional services and 24x7 operational backup. Our most important solutions are the following:

#### SOLUTIONS FOR DATA CENTERS, ISPS AND ASPs

GMV boasts a wealth of experience in implementing ISPs, ASPs and Data Centers. GMV sets up the following, among others: email, directory servers, web servers, agendas, radius, DNS, FTP, chats and news. It also offers an all-in provisioning solution for these services.

#### PORTAL AND CONTENT MANAGEMENT SOLUTIONS

GMV provides solutions for corporate portals, both horizontal and vertical, as well as solutions of email, intranet and B2B/B2C/B2E internet applications. It also implements content management solutions or integrates them into existing systems. GMV also integrates corporate client/server applications and makes them internet accessible. All the solutions can be integrated with advanced security services in web environments (x509, SSL, LDAP Certificates).

#### SOLUTIONS FOR FINANCIAL ENVIRONMENTS

The specific applications for financial environments provided by GMV include the following:

- Horizontal solutions: monitoring and analysis of systems and resources used by the entity in question, management systems and automatic and semi-automatic messaging-service response systems, alarm management (e-mail, SMS, voice), membership systems, B2B communication systems with other entities, third parties or clients. Access by the entity to information and transactions by means of mobile devices.
- Specialized solutions: development and integration of financial services, risk control and measurement, secure document management, monitoring of complete portfolio reports, portfolio recommendation, evaluation and optimization.

#### SOLUTIONS FOR TELECOMMUNICATIONS OPERATORS

GMV constructs added value services for mobile operators, including:

- End client services: Front-end for content suppliers, sending out promotions, publicity, creation of user groups, purchases by mobile phone, etc. These services are built on web access channels, WAP, SMS, USSD, voice (IVR), email, etc.
- Integration services with nodes of the GSM network and intelligent network: interfaces unified to nodes (SDP, HLR, SMSC, etc.) and added value service for the user (checking of the balance, activation of services, amendment of plans, etc.).

#### MULTI-CHANNEL UNIFIED MESSAGING SOLUTIONS

GMV's e-Mail solution is a program for centralized message administration, allowing messages to be read, received and sent from and to any medium or channel (email, voice, SMS, fax, etc.). It incorporates a single warehouse for all types of message and a directory for access and authentication services. The solution is 100% Java. It can be easily integrated into the rest of the company's applications and can be modified as needed to provide a tailored solution.

#### MOBILITY SOLUTIONS

- SMS and MMS messaging services with direct connection to operators and a guarantee of high performance.
- Tracking solutions.



- Mobile technologies: J2ME, CLD/CDLC, MIDP, Personal Java, JavaCard, communications based on HTTP/HTTPS, WAP, USSD, etc., using diverse operative systems.
- Mobile devices: mobile phones, PDAs, SmartCards. GMV's services and solutions are based on secure, robust and reliable architectures and technologies designed on the strength of the experience of specialist professionals:

#### SYSTEM ARCHITECTURE AND NETWORK INFRASTRUCTURE

The architectures designed by GMV ensure a high availability rate and load balancing, thereby guaranteeing an excellent service quality. Our design and implementation services take in the engineering, implementation and configuration of hardware platforms and networks, in multilayer, multichannel architectures.

#### MIDDLEWARE ARCHITECTURES AND SOFTWARE PLATFORMS

The platforms used by GMV are those best suited to each particular challenge, covering the following technologies among others:

- Application servers on J2EE and .NET architectures: standardization of APIs, load balancing, transactionality, high availability, distribution and persistence.
  - Transactional messaging-service object-oriented middleware.
  - Relational object-oriented databases and XML servers.
  - Web service platforms (XML, SOAP, UDDI, etc.).
- STORAGE AND BACKUP SYSTEMS** The new storage technologies used by GMV in its solutions are essential for ensuring business continuity:
- Storage systems: SAN, NAS and DAS storage solutions, storage management, disaster recovery plans, professional installation and management services. These solutions, combined with different RAID configurations, enable each solution's availability and speed levels to be adjusted to suit each particular case.
  - Backup systems: traditional backup, LAN free and Server Less backup, backup management, advanced copy and replication services.

#### CORPORATE INTEGRATION ARCHITECTURES

- EAI architectures based on high performance platforms and bus technologies.
- BAM and BPM business monitoring technologies.
- Immediate web access architectures: Citrix, Tarantella.