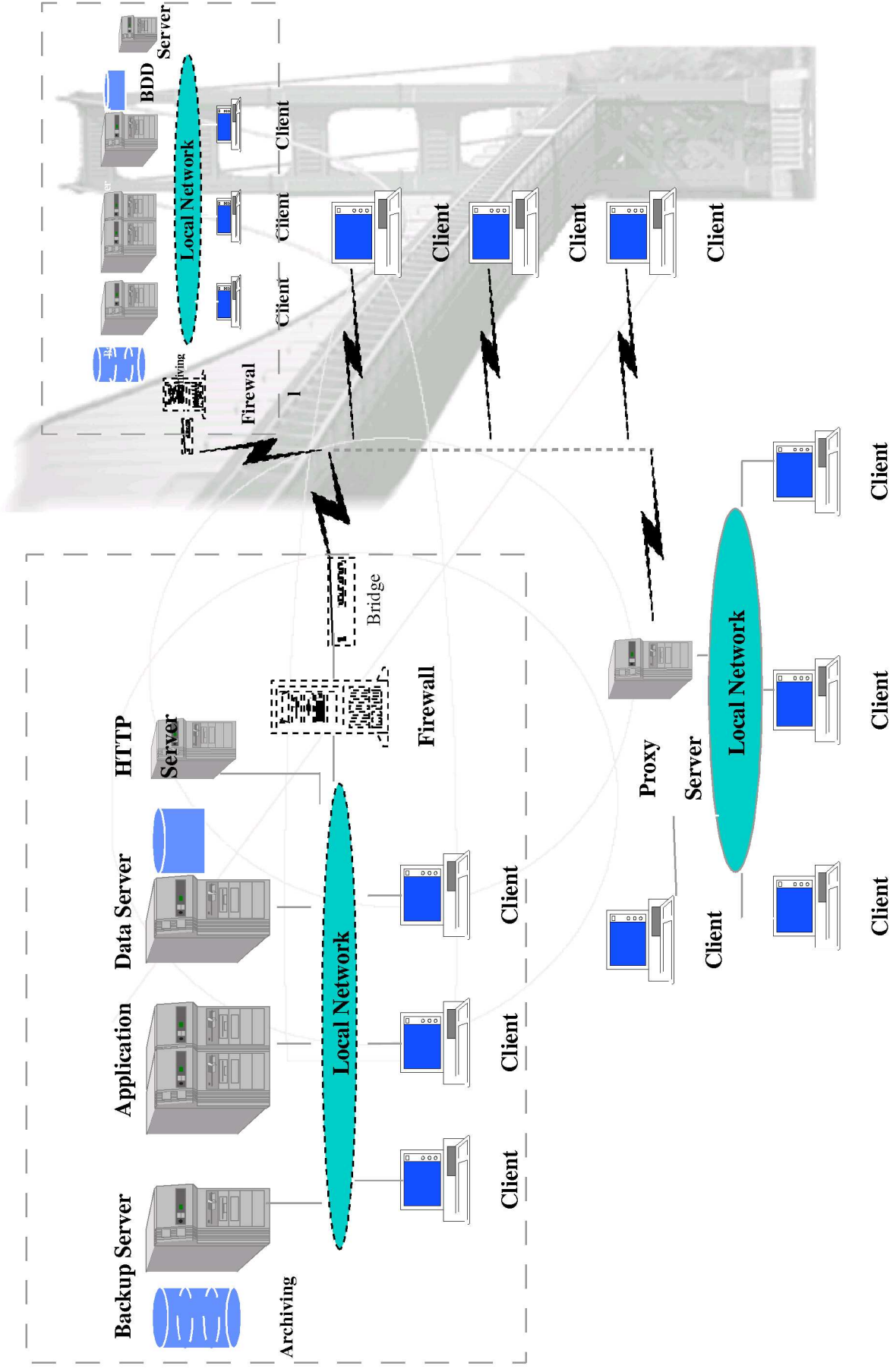


Compiere MFG & SCM

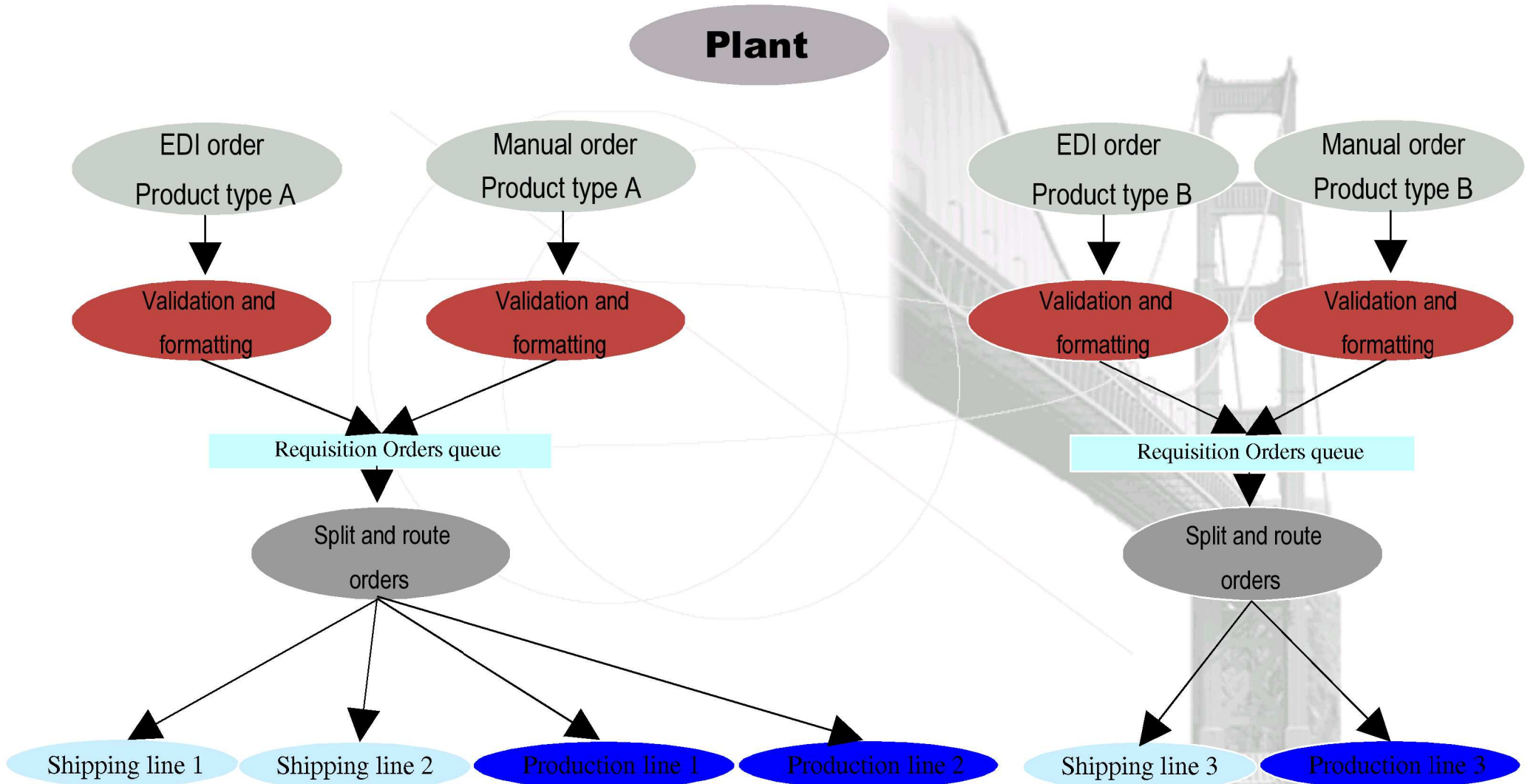
Presentation



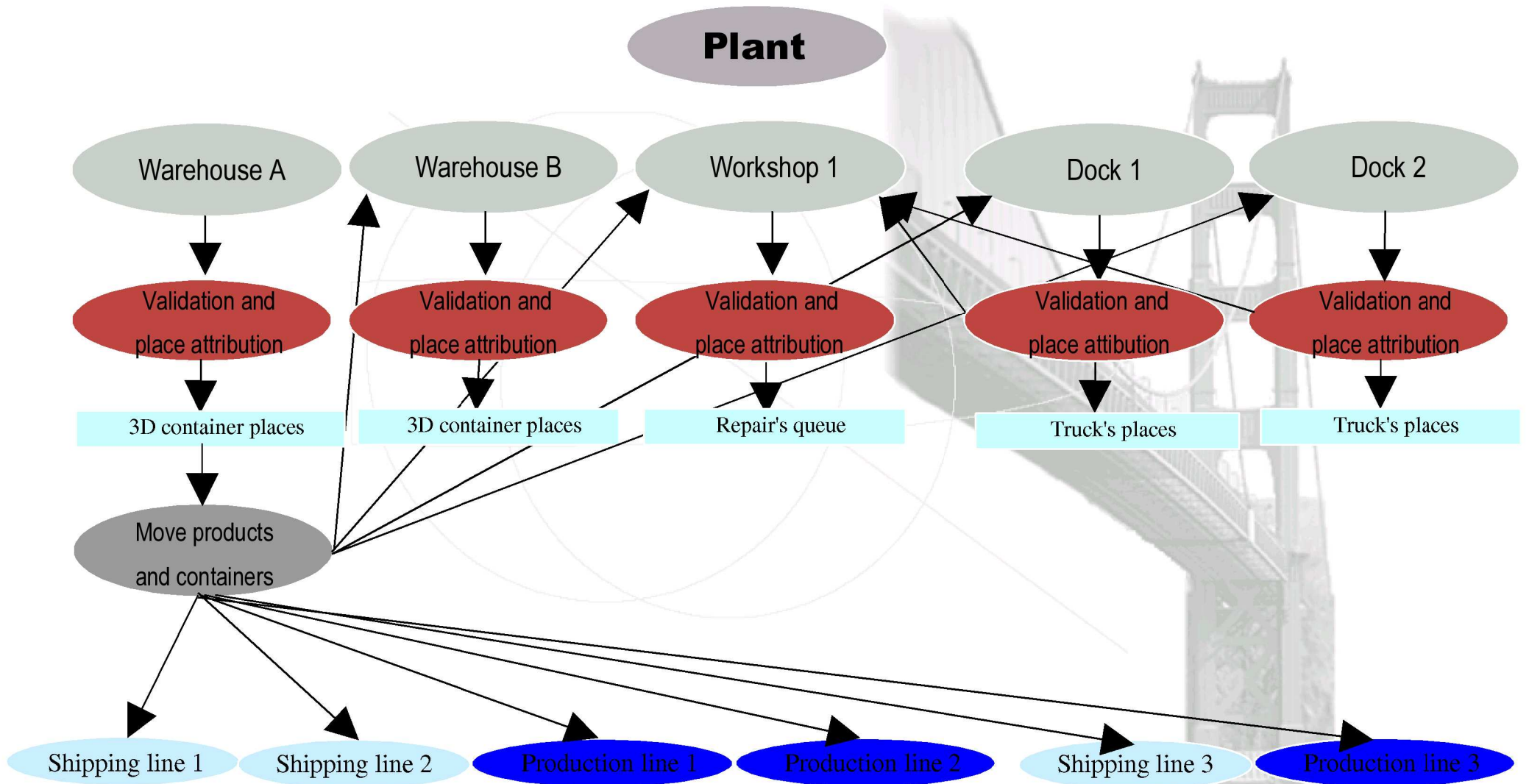
Compiere MFG & SCM Network



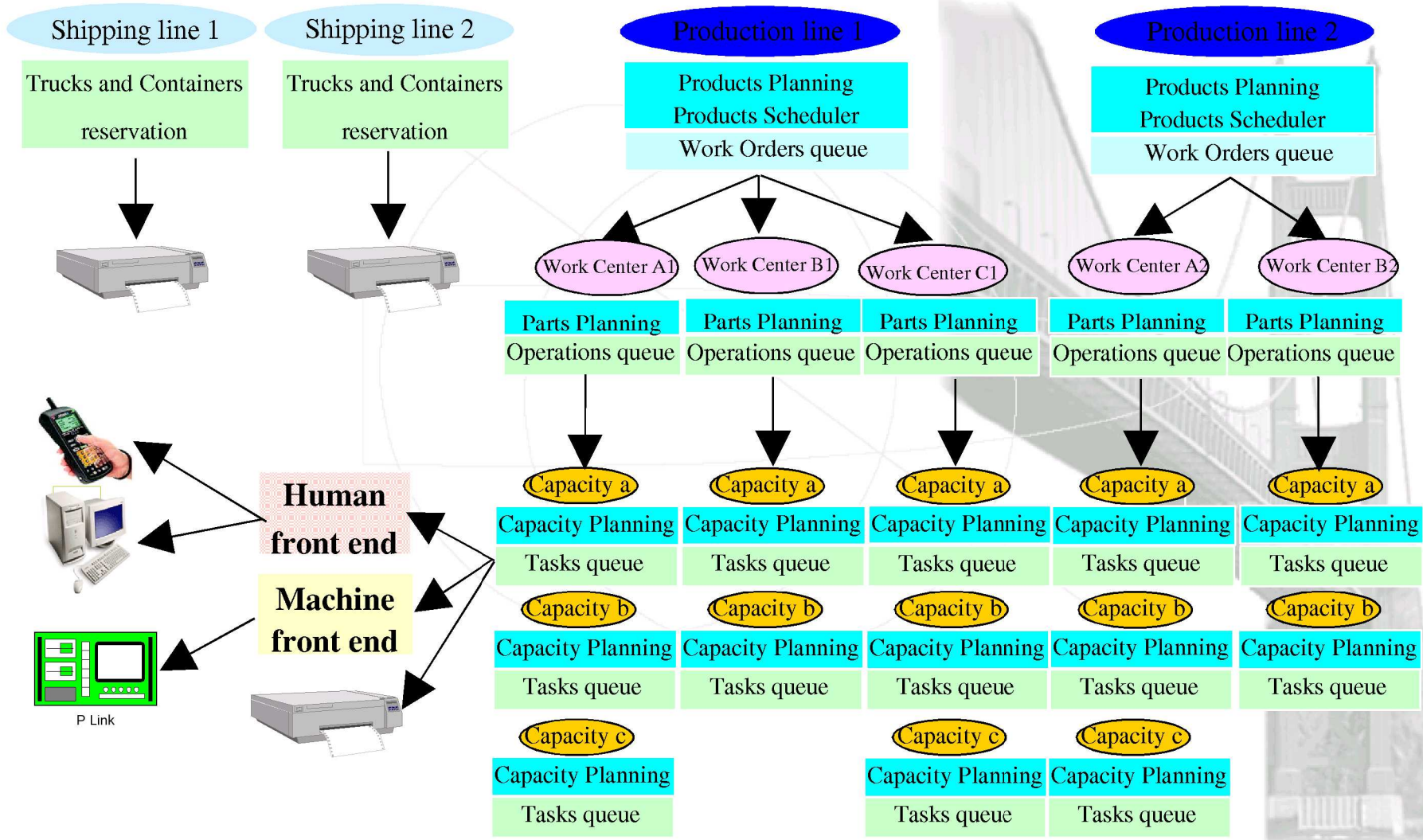
Compiere MFG & SCM Architecture



Compiere MFG & SCM Architecture



Compiere MFG & SCM Architecture

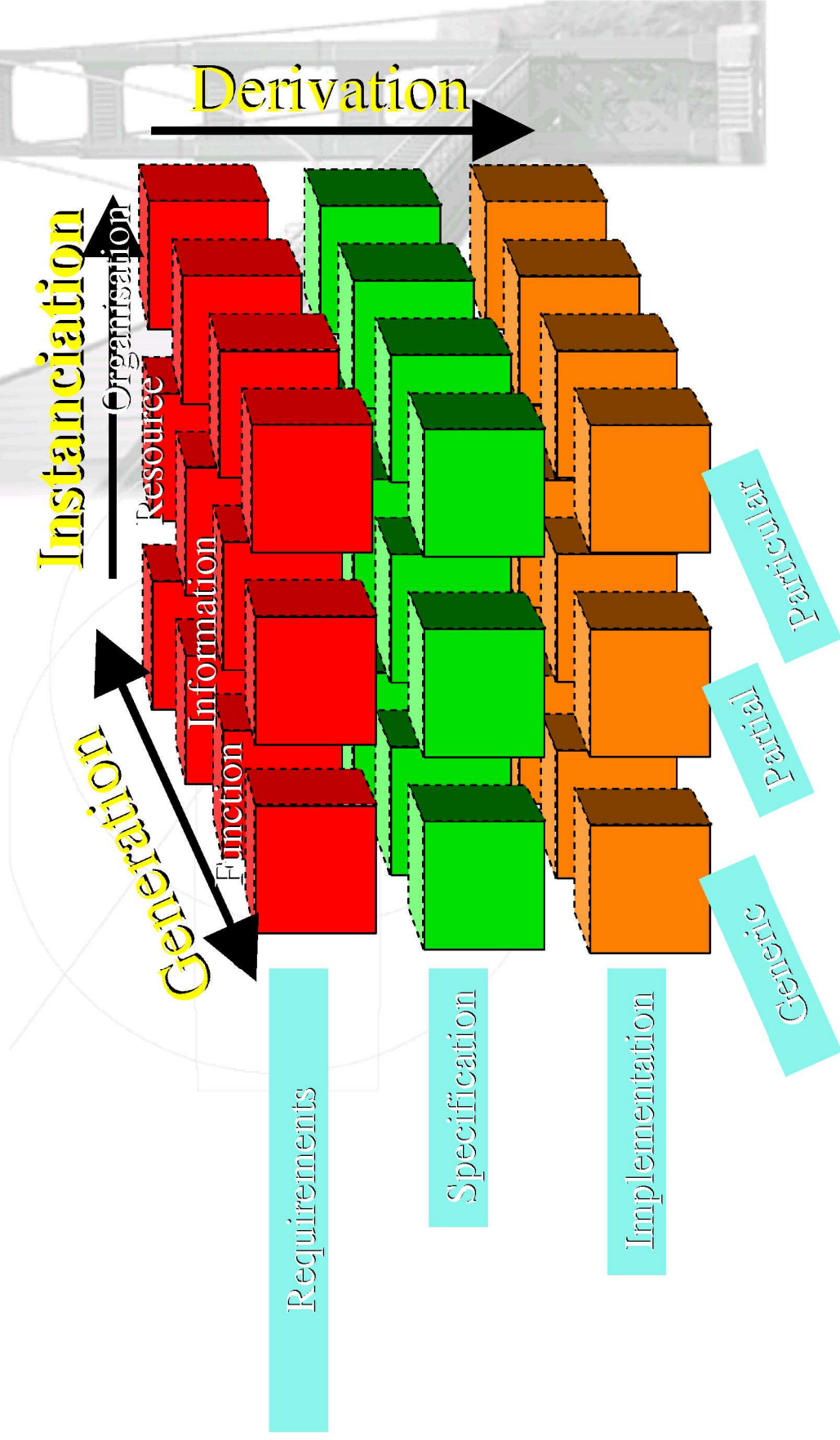


Technology

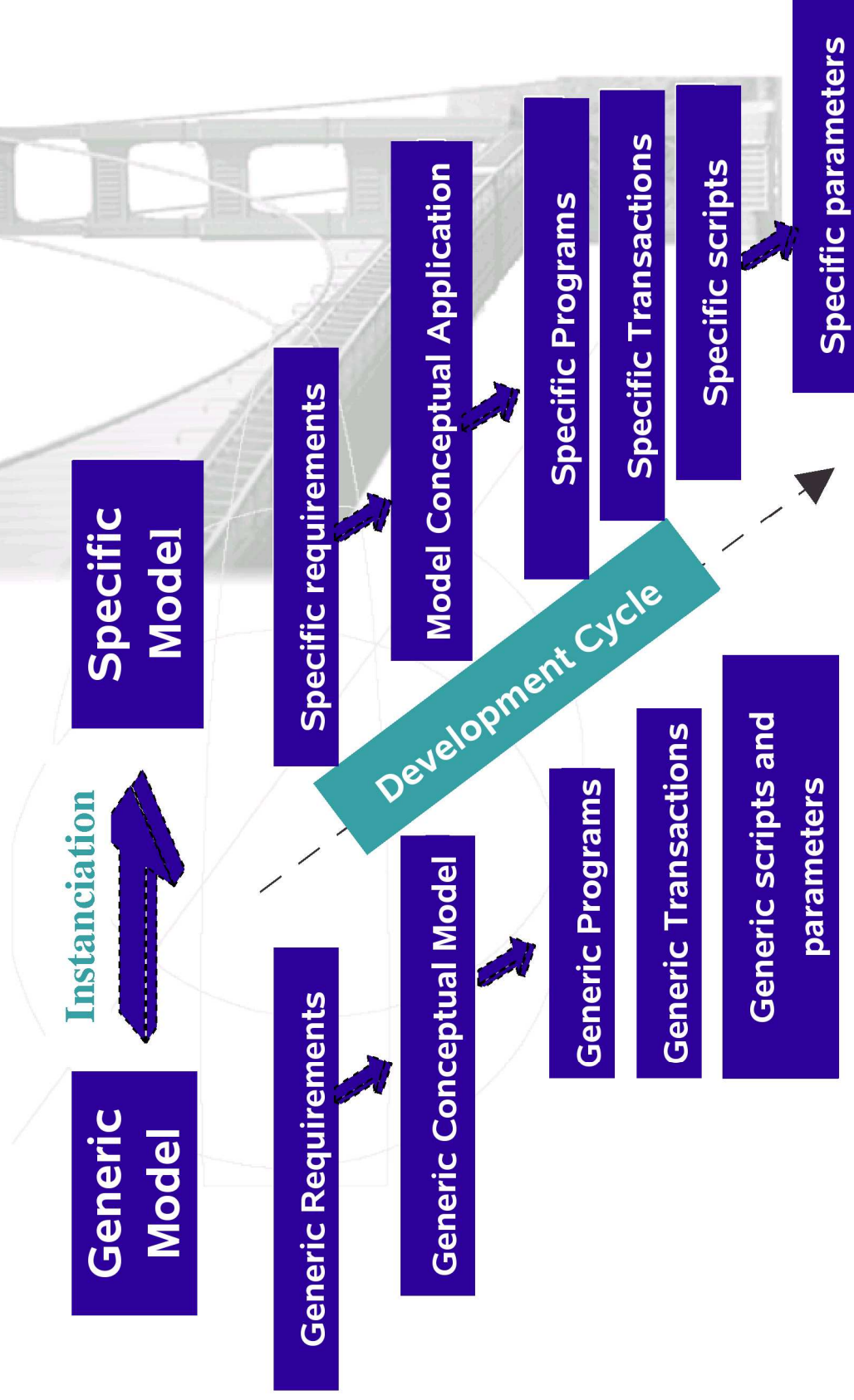


- **Reusable**
 - Standard generic elements
- **Portable**
 - Platform-independent elements
- **Multi-layer**
 - Separate Generic from specific modules
- **Open solutions**
 - Propose open solutions to facilitate integration

Normalised Business Model



Development cycle



Compiere MFG & SCM Technology

- **Server side :**
 - J2ee middleware based on TCP/IP and Java :
 - SQL Data interface (SGBD) using Java Data Objects.
 - Web server
 - Cluster and replication server
 - Dynamic load and start of servers
- **Client side :**
 - Front ends
 - JAVA/HTML/JAVASCRIPT



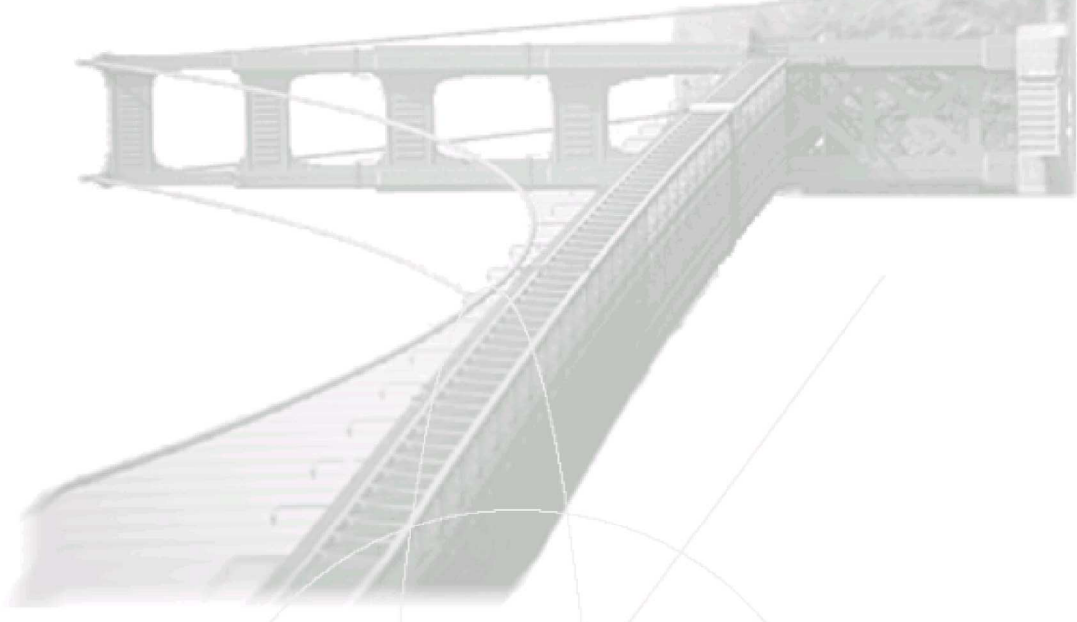
Compiere MFG & SCM Licence

- **Open Solution :**
 - Open solution Posix compliant
 - Support of JDBC
 - Support of J2ee technology
 - Support of fault tolerant clustering
 - Support of firewall and proxy.



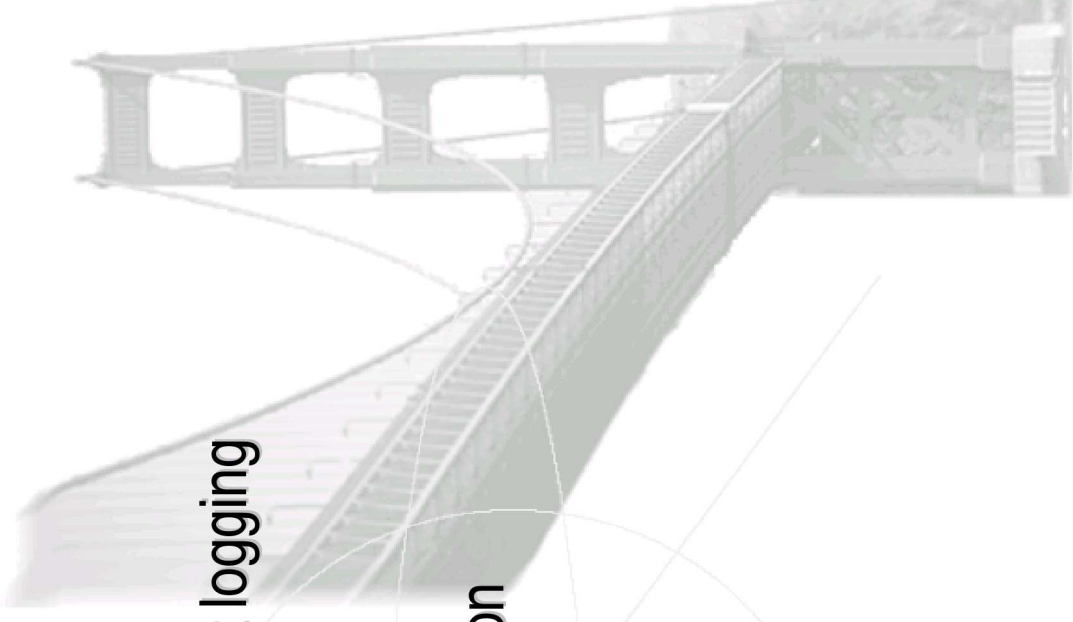
Compiere MFG & SCM Security

- **Security functions :**
 - Isolate internal resources from users
 - Security logging
 - Users authentication
 - Password control (Expiration, dictionary ...)
 - Security issues capture and alert



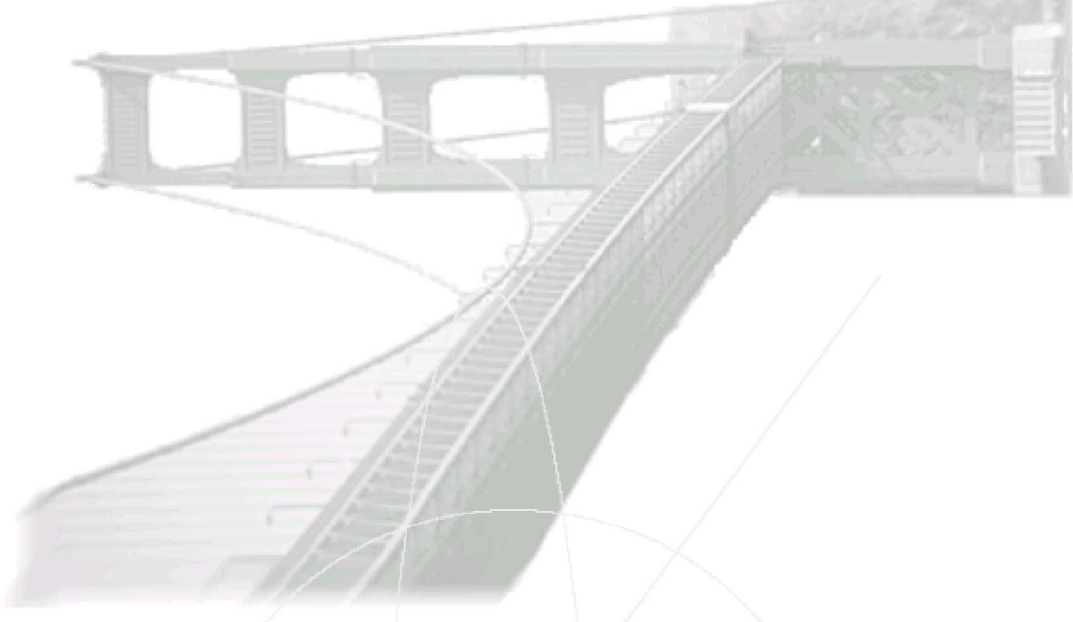
Compiere MFG & SCM Security

- **Alarms management:**
 - Centralised standard and organised event logging
 - Dynamic log analysis
 - Hardware watchdog
 - Extended alarm configuration depending on
 - Days
 - Hours
 - Event level
 - Event type



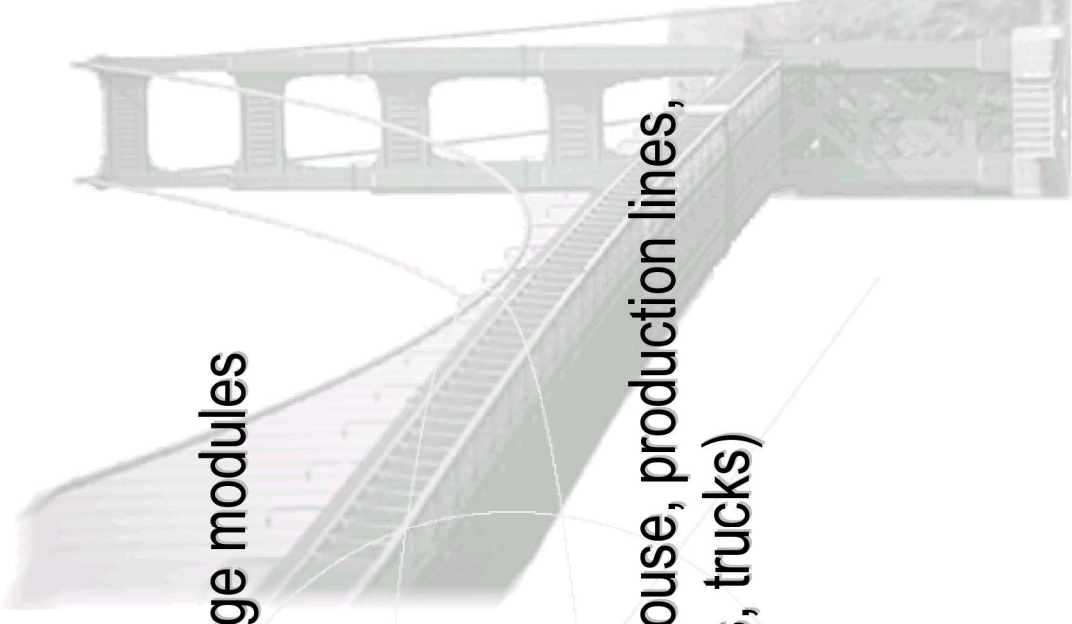
Compiere MFG & SCM services

- **Services structure :**
 - Java technology
- **Services :**
 - Site services
 - Shipping services
 - Dock services
 - Warehouse services
 - Production line services
 - Work center services
 - Capacity services
 - Workshop services
 - Trucks and container's services



Compiere MFG & SCM services

- **General description :**
 - Compiere MFG&SCM is divided in first 3 large modules
 - MFG_SCM, MFG and SCM
 - MFG_SCM contain all common objects
 - MFG contain all MFG objects
 - SCM contain all SCM objects
 - all permanent objects are services (warehouse, production lines, work centers, capacities, workshop, docks, trucks)
 - all services are activable services.



Compiere MFG & SCM services

- **MFG & SCM :**
 - Site (service) :
 - Manage activation system for all services depending on this site.
 - Manage requisition orders (client objects)
 - Manage requisition orders and projected next due date forecasts
 - Manage batches (client objects)
 - create work Orders for production Line, create operations for work centers and tasks for units.
 - make reservation in containers and trucks
 - prepare labels
 -
 - Costing (client object)
 - Costing get informations from MFG services

Compiere MFG & SCM services

- **MFG & SCM :**
 - Alarm management (service) :
 - store alarm log receive from all MFG&SCM objects
 - generate alarm object for log level upper to alarm
 - generate acknowledgeable alarm objects for log level upper to ack_level
 - Give log level parameter to client when request
 -
 - printers (service) :
 - route print orders to printing spoolers.
 -
 - alarm (client object)

Compiere MFG & SCM services

- **MFG (manufacturing) :**
 - Production Lines, Workshops, Shipping Lines (service)
 - manage work orders, repair orders and delivery (client objects stored in a javaspaces)
 - Manage work orders and products forecasts
 - Work Center (service)
 - manage operations (client objects stored in a javaspaces)
 - Unit (service)
 - affect tasks to one of its capacities depending on rule (move task from its javaspaces to a capacity javaspaces)
 - Capacity (service) :
 - Manage tasks (client objects stored in a javaspaces)
 - Manage tasks forecasts, parts and capacity planning

Compiere MFG & SCM services

- **SCM (supply chain management) :**
 - warehouse (service)
 - manage containers (service stored in javaspace)
 - manage product move
 - Containers (service)
 - manage product move (products are stored in javaspace)
 - Dock (service)
 - manage truck move (service stored in javaspace)



Compiere MFG & SCM services

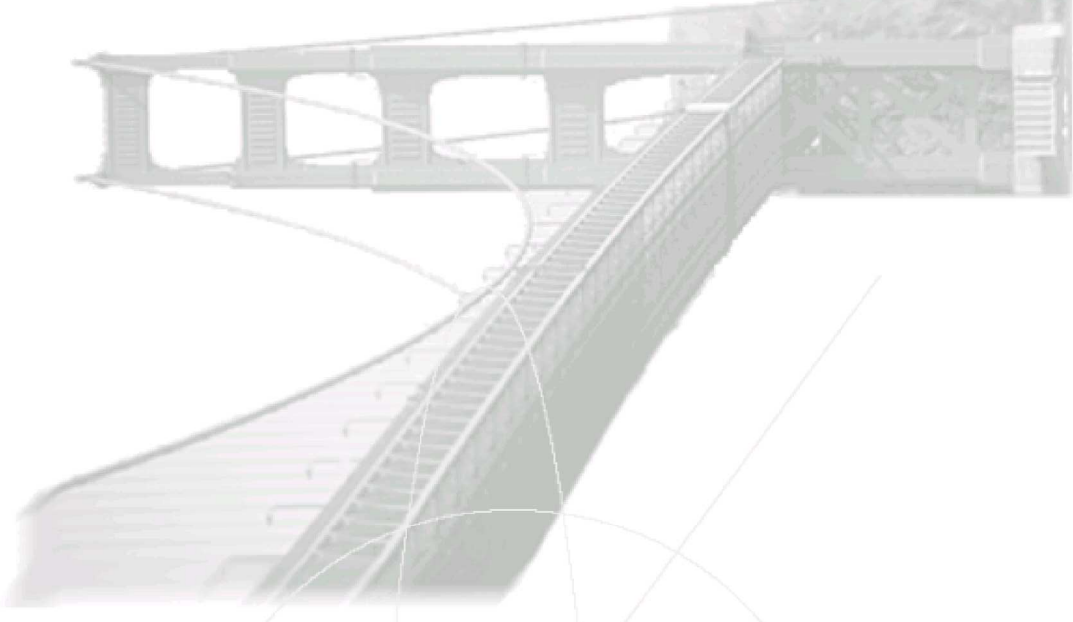
• SCM (supply chain management) :

- Truck (service)
- manage container move (service stored in jvaspace)
- reception (client object)
- delivery (client object)
- roadmap (client objects)



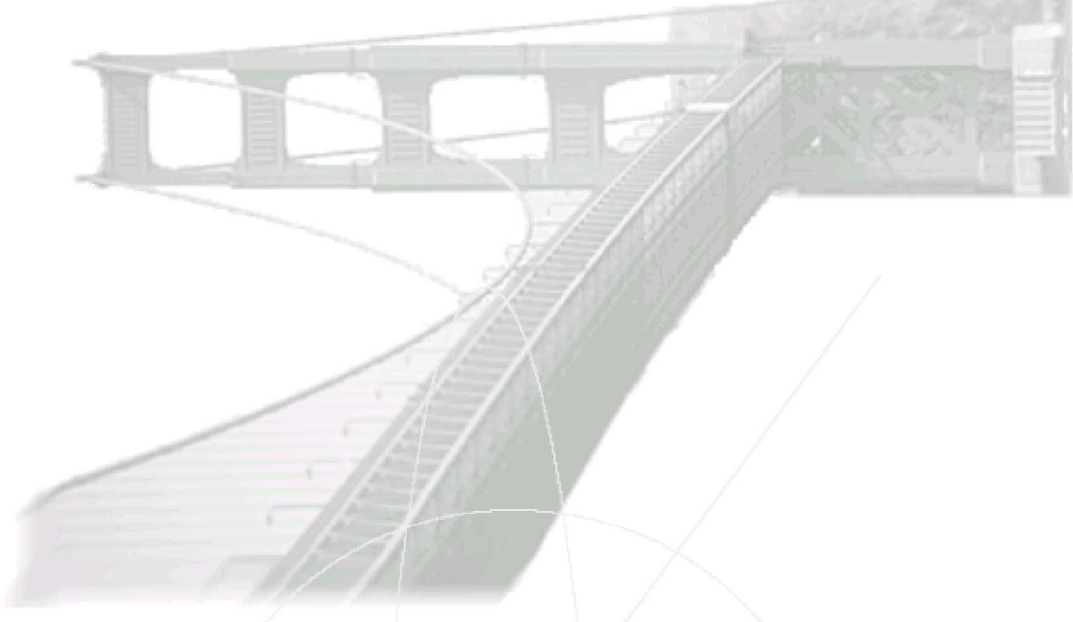
Compiere MFG & SCM front ends

- **Front ends structure:**
 - Java technology
- **Front ends:**
 - Human front end : Java or ASP
 - Machine front end (Modbus, profibus ..)
 - Printer front end



Compiere MFG & SCM front ends

- Machine front end :
 - Neutral file machine interface
 - Secure machine request queues
 - Finished state operation



Compiere MFG & SCM labels

- **Jparse :**
- Parse format files.
- Format data using format files.
- Jparse produce one group of output by record of data's.
- Main use are barcode labels and export formatted data's.

