

# WBManager

## WeightBridge Management System

The **Weighbridge Control and Monitoring system (WBManager)** is a comprehensive family of products and services specifically tailored for MBT plants and Landfill sites. It combines the primary data with the business information systems in an integrated information architecture capable of meeting the broader site requirements. The system gives the possibility of full documentation and filing of the required daily and monthly reports.

As part of MOTION's Open Client – Server Computing Technologies, WIPS gives you the freedom to choose what you need for today and for tomorrow, and to incorporate the technology investments you have already made.

With MOTION's Integrated Manufacturing solutions you are built in a more incremental approach, from small pilots to large and distributed factory systems, without the long development and implementation cycles required with proprietary solutions.

**MOTION Hellas** is an industrial Hi-Tech company with activities in the fields of Real Time Control Systems, Engineering, Manufacturing and CIM Software applications, services and products for SMEs. The current target of the company is to bring new IT and electronic technology into new products and services.

### The WBManager System

The **WBManager** Inbound and Outbound Vehicle Management System at MBT plants, Landfills and Materials' Recycling Plants is a Management and Recording Integrated System for the Waste collected by Recyclers and for the products derived from the separation process at a MBT Plant, which involves installation of:

- Management and Reporting System of Incoming Materials and Outgoing Products
- Manufactured Products' Management System from Processing Flows



- On-Line Connection System with the Weighbridge.
- Vehicle Recognition System Using RFID Reader
- Photography System for Front and Rear Side of the Vehicle (Plate)
- Interconnection System Between Stations and Company's Central Offices, with the possibility of On-Line Process Monitoring and control
- Reporting and Statistical Data System

### The WBManager Database

The **WBManager** Database and Document Management Software includes:

- On-Line Vehicles' Monitoring
- Definition of Vehicles, Suppliers, Customers and Operators.
- Waste and Products' Item Definition
- Photographs' Management
- Data Transfer to Company's MIS System, which includes:
  - Entry – Exit Registration Reports
  - Documents' Statistical Analysis. Transit Aggregated Analysis based on Criteria (time basis, per Recycler, per Bin's Type)

The system operates in AUTO and Manual mode. In Auto mode the authorized vehicle passes the weighbridge without the operation of a weigher. The system is connected using Automation Network Data exchange with the MIS engineering station in the Administration Building. Having the above Data under a Central Computerized Weighing System the operator can have statistics about production output, compare the output to the input of waste and monitor the recovery rates of materials, and knowing the materials that are going to the warehouse.

**MOTION Hellas** has specialised in the production of Data Collection Terminals and Electronic Components for on-line shop floor control in conjunction with information technology and software development for CIM and Telematics applications. It is an ISO-9001 certified company since 1999

MOTION Hellas supports its clients in the identification of their requirements and in the selection, planning, implementation and testing of Automation and SCADA systems.

**MOTION Hellas** is co-operating closely with Universities and European companies (WISTA, Fraunhofer, Gedas, Aplicom etc) in order to solve actual problems and to establish a long-term collaboration in International Market. It has expertise, know-how and experience in R&D programs such as ESPRIT, BRITE EURAM, DRIVE, RECITE II, INTEREG IIIC, TIDE etc.

MOTION Hellas has executed a large number of Automation Systems for Wastewater Water Treatment Plants (WWTP), Restoration of landfill sites (Municipality of Ano Liosia, Municipality of Thessaloniki, Municipality of Pafos Cyprus), MBT Plants (Larnaka Cyprus, Mariscina Croatia, Kastijun Croatia, Sofia Bulgaria, HRO Osnabruek Germany, MBT Ano Liosia) and Recycling industries (EPANA Koropi and Fili) in co-operation with construction companies (HELECTOR SA, Mesogeos SA etc)

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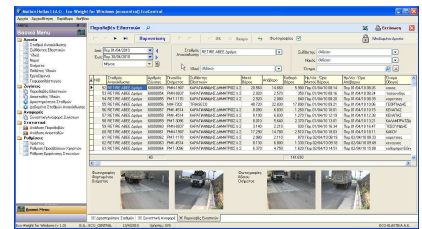
## Aims of the System

The **WBManager** system aims to:

- real time monitoring of the Weighbridge process
- improve management and control of incoming materials at Recycling Industry
- Implement an integrity registration and control system (on-line monitoring) of vehicles entering and exiting Recycling Stations, based on company's specific criteria.
- increase plant's and process' reliability.
- improve plant's and process' functionality.

Vehicle ID	Weight	Status
1234567890	12000	OK
0987654321	15000	ERROR
1122334455	18000	OK
6677889900	20000	ERROR
5544332211	22000	OK
0011223344	25000	ERROR
9988776655	28000	OK
8877665544	30000	ERROR
7766554433	32000	OK
6655443322	35000	ERROR
5544332211	38000	OK
4433221100	40000	ERROR
3322110099	42000	OK
2211009988	45000	ERROR
1100998877	48000	OK
0099887766	50000	ERROR

- integrate the Recycling Processes, in a Software and Data Processing environment.
- automate the recording and analysis of all necessary data by on-line monitoring from company's central computer.
- provide a MIS software package for management services, Quality Control and Data Analysis
- support the Quality Control and Quality Assurance of the all Process
- create Documentation and Reporting of the required parameters



## Monitoring Systems

The technologies which incorporated in the Integrated WBManager system for the Monitoring and Control of the Weight Bridge procedures, include automation and software systems such as:

- Weighbridge with a terminal connected to PC and IP printer,
- ACCs,
- Automated Control Barriers,
- Signalling system for traffic control,
- RFID reader,
- IP Camera for photographing vehicle's plate,
- Sensors for vehicle detection,
- Open voice selective communication system

