As a waste disposal service provider, you need processes that interoperate smoothly. However, often the information flow stops at the gates of your facility. The SAP Waste and Recycling application helps you improve the weighing process and downstream production and billing processes.

GREEN LIGHT FOR WEIGHING AND RECOVERY

PROCESS INTEGRATION FOR IMPROVED SPEED AND REDUCED COSTS

Intensifying cost pressures, moredemanding customer requirements, an increasing volume of regulations – these are all factors of daily life in the waste disposal industry. Companies in this sector are finding out just how important it is to optimize use of their own resources. After all, unwieldy business processes cost time, money, and, in the worst case, market share – and your competitors are responding to the challenges too. Processes in waste disposal facilities have to run quickly and reliably. The weighing process often proves to be a bottleneck that causes inefficiencies and incurs costs. In addition, a lack of integration often causes duplication of effort and information loss in the control, management, and documentation of downstream processes.

Do you want to make your waste disposal processes simpler, faster, and more costeffective, both inside and outside your facilities? With the functionality for waste facilities and scales that is part of the SAP Waste and Recycling application, you can help ensure consistent and comprehensive process control. The functionality supports your work processes, from weighing through all the material movements and treatment steps at your facility to order confirmation and billing and collections. Because the functionality lets you integrate your scales directly with the SAP ERP application, process integration starts at the gates of your waste disposal facility.

Incorporate Scales into SAP ERP

Up to now, incorporating scale systems into your enterprise's IT system was a difficult task. This is because there is no consistent communication standard for the various scale systems; more often than not, each one has its own proprietary protocols. However, for delivery vehicles to be processed quickly, the data exchange between each scale and SAP ERP has to function perfectly. As a result, many facilities set up additional interfaces to the scale software, produced by the scale manufacturer. Unfortunately, setting up and maintaining these interfaces costs time and money, and it is highly prone to error because of the complexity of integrating these types of systems. SAP Waste and Recycling helps solve these problems, as it enables you to connect the scales directly to your enterprise software and control the scales without the need for additional interfaces. So you get double the benefits: reduced implementation costs and operating costs, and new ways to optimize processes:
- The optimized and flexibly designed user interface speeds up the process of weighing your transport vehicles.
- You can print weighing records without the need for extra software.

The solution enables you to weigh your own vehicles on the basis of an internal order, as well as to weigh external vehicles on a contract basis. Cash sales and invoicing, based on the application's sales and distribution and invoicing functionalities, are the two payment options in the latter case. You can directly transfer weighing data to billing and invoicing.

SAP

Automated Weighing Processes

When a truck enters or leaves a waste disposal facility, it has to be identified. In many cases, this identification process is awkward and time consuming. SAP Waste and Recycling makes it easier. You can identify the vehicles that are recorded in SAP ERP at the time of weighing, using an ID-card reader or a bar-code scanner. Even with manual vehicle recording, the relevant order data or contract data is immediately available. The instant traffic light or barrier function, controlled by SAP ERP, helps ensure that the scales are operated in an optimal way. When a scale becomes available, you can switch the traffic light for the next delivering vehicle to green or open the barrier. These functions mean that the weighing process is fully automatic; in other words, the only human being required for weighing on an unmanned scale is the driver.

Direct Link to Materials Management

Functionality for waste facilities and scales in the SAP application lets you instantly post and manage the materials recorded in the weighing process. This means that you can create detailed waste lifecycle analyses for your customers. You can quickly make transfer postings for materials in production processes such as separating or sorting. You benefit twice over from the direct link between scale processes and materials management: you reduce costs, while at the same time enjoying timely, enterprise-wide management of material flows.

Visual Controls and Reserve Samples

SAP Waste and Recycling lets you record visual controls and reserve samples. You can assign numerous sample parameters and values to each sample. On the basis of business rules you have defined, the application then sets a delivery lock for future deliveries, in accordance with the result.

Integrated Waste Approval Permits

Thanks to the application's integration with the SAP Material Flow Management & Legal Requirements Foundation by PROLO-GA, you can efficiently fulfill at the scales the statutory requirements for documenting material transports, including those for hazardous materials. You can process data that is relevant to waste law and check it in with the weight-recording interface. So there is no need for you to record this data separately.

After vehicle identification and vehicle recording, which you can do using an ID-card reader or bar-code scanner or do manually, the relevant order or contract data is available immediately.

When the Data Connection Fails: Offline Weighing

The scales always have to function properly. But what happens if the data connection between a scale and the SAP software fails? This can be very expensive for the disposer – if the transport vehicles get

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backed up all the way to the freeway exit, for example. Treatment and disposal functionality in SAP Waste and Recycling prevents this worst-case scenario from happening. Thus, you can integrate client software for offline weighing so that you can record data and save it until your data connection to the SAP software is up and running again.

More Efficiency for Facilities – Inside and Out

Transferring, splitting, and blending materials are all part of a day's work in waste disposal facilities. The functionality for waste facilities and scales makes it easier for you to execute and document these processes. To map all the relevant data from various process types, such as source and target materials and their quantity shares, you use process templates. These templates let you group together recurring processes so that you can consistently update and document them. You can modify the templates in the case of an individual process, if required.

The weights posted in SAP ERP, as well as all information about internal facility processes, are automatically transferred to the electronic operations log. Also, the functionality creates and manages shift log entries for each waste disposal facility. Any information that is not yet available in the system can be quickly added in a user-friendly input screen. The information flow helps guarantee compliance with all legal documentation regulations with the required high level of reliability.

Plant Maintenance Integration

SAP Waste and Recycling provides you and your facility with plant maintenance functionality that includes inspection, preventive maintenance, and repair. These functions enable you to do the following:

- Describe the technical status of an object
- Request that the repair department implement a particular measure
- Document maintenance work

The maintenance history gives you ongoing access to maintenance data, which you can then use for reporting purposes. All these processes are also automatically noted in the facility's operations log. What's more, you can also document processes such as investments and remodeling work.

Benefiting from Waste Facilities and Scales Functionality

With SAP Waste and Recycling, you gain the following benefits:

- Simplified process execution
- Integration of your scales with SAP ERP and with all of the application's other functionalities
- Identification of relevant contracts, orders, and vehicles
- Incorporation of your weighing procedures with your overall process flow
- Automated documentation to support regulatory compliance

The SAP application lets you instantly post and manage the materials recorded in the weighing process. This means that you can create detailed waste lifecycle analyses for your customers.

Find Out More

Want to know more about what this software can do for all your enterprise's weighing processes? Contact your SAP sales representative,or visit us online at www.sap.com.

SAP: Delivering IT-Powered Business Innovation

SAP delivers products and services that help accelerate business innovation for our customers. We believe that doing so will unleash growth and create significant new value – for our customers, SAP, and, ultimately, entire industries and the economy at large. Today, customers in more than 120 countries run SAP applications – from distinct solutions addressing the needs of small businesses and midsize companies to suite offerings for global organizations. SAP defines business software as comprising enterprise resource planning, business intelligence, and related applications such as supply chain management, customer relationship management, product lifecycle management, and supplier relationship management.

From Walldorf to Wall Street: The SAP Success Story

Founded in 1972, SAP has a rich history of innovation and growth that has made us a true industry leader. SAP has sales and development locations in more than 50 countries worldwide and is listed on several exchanges, including the Frankfurt Stock Exchange and NYSE under the symbol "SAP."

Quick Facts

Summary
Based on SAP Material Flow Management & Legal Requirements Foundation by PROLOGA, the SAP component Treatment and Disposal for Waste and Recycling offers you process support from weighing through internal facility processes to postings in materials management and billing. Integration with plant maintenance means that you are always up to speed, not only with the processes in your facility but also with the facility itself.

Business Challenges
- Simpler, more reliable, and more cost-effective process execution
- Smooth communication between scales and the IT system
- Compliance with statutory regulations
- Handling of the waste permit procedures

Key Features
- **Weighing –** Record weighing processes with the user interface from SAP; connect the SAP ERP application to all the main scales
- **Integration with materials management –** Directly post material flows in SAP Waste and Recycling, and create waste lifecycle analyses
- **Integration with waste permit procedures –** Weigh hazardous wastes in accordance with a waste disposal permit
- **Integration with contract management –** Perform contract-based weighing with corresponding contract data check
- **Integration with billing and cash desk –** Directly transfer weighing data to the billing department for billing and invoicing
- **Production processes –** Handle production steps such as sorting, splitting, and blending
- **Operations log –** Automatically transfer all internal facility processes to the electronic operations log
- **Plant maintenance –** Gain an overview of all your facility's plant maintenance measures

Business Benefit
- **Low IT operating costs** thanks to the integration of scales with SAP ERP and with the other functionalities of SAP Waste and Recycling
- **Efficient weighing** with optimized identification of relevant contracts, orders, and vehicles
- **Reduced resource requirements** due to comprehensive incorporation of the weighing procedure with the overall process flow
- **Automated documentation** thanks to operations log functions

More Information
Call your SAP representative, or visit us online at www.sap.com.