



## AMCS PLATFORM

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### Overview

AMCS Platform is a unique enterprise-grade software platform that runs in the cloud and is designed based on the best practice processes of thousands of waste & recycling companies across the globe. The platform is inspired by global market trends, driving automation and delivering end-to-end standardization and optimization of all your business processes. A platform that enables established waste & recycling companies to operate smarter, more seamlessly and more digitally.

With the AMCS Platform we have created an ultra-modern, scalable platform that marries industry-specific software with best-in-class optimization capabilities, e-commerce ingenuity and on-vehicle technologies. We empower our customers with an intelligent platform that predicts and actions, whilst supporting the ongoing transformation of the industry to a circular economy.

**AMCS Platform seamlessly integrates six solutions:**

1. Enterprise Management
2. Intelligent Optimization
3. Mobile Workforce
4. Vehicle Technology
5. Digital Engagement
6. Analytics

### Enterprise Management

AMCS Enterprise Management solution is more than an ERP or back-end solution. It is the heart of the AMCS Platform and the backbone of your automated business. It is the Waste and Recycling industry's only integrated, scalable solution that gives you a 360-degree view into your business. It covers all imaginable lines of businesses and waste management processes of municipalities and commercial companies collecting, recycling or trading waste.

With the AMCS Enterprise Management solution, you will streamline your operations, reduce costs, increase productivity, drive profitability across your organization and turn your valuable resources into revenue!

**AMCS Enterprise Management covers an extensive range of business processes:**

- ▶ Customer and contract management, supporting complex pricing like pay per weight, weight allowances, price breaks, price indexing, per visit charging, and minimum lift charging
- ▶ Asset management systems (vehicles, bins, containers)
- ▶ Transport processes; container management, route planning & execution, completion of one-trip, skip or compactor work
- ▶ Weighing systems (Pay As You Throw) by weight, Scale house, transfer stations, CA sites)
- ▶ Personnel administration (pay-roll, overtime)
- ▶ Recycling (inbound/outbound, material grading, stock management)
- ▶ Material trading (supply and demand mapping, margin calculations, shipping documents)
- ▶ Billing and invoicing engine: facilitate digital invoices (e-billing) and automate reminders and accounts payable

### Intelligent Optimization

Our Intelligent Optimization solution offers a suite of route optimization capabilities providing you endless benefits and superior business value.

With our solution you will get significant cost reductions and improved customer service levels on your collection routes and waste transport. The optimization capabilities span from master route optimization down to fully dynamic and real-time driven optimization – all with the purpose of making you excel in a highly competitive market.

The Intelligent Optimization solution handles all types of waste like commercial, domestic, roll-off, skips, hazardous and more. It reaches beyond route optimization, supporting the operational and post-operational business process with i.e. automated route slotting and time slotting (price optimization), resource management, sub-contractor co-planning, self-billing and much more.

**AMCS Intelligent Optimization for route optimization handles:**

- ▶ Master route optimization for domestic and commercial waste
- ▶ Automated master route maintenance for churn management
- ▶ Daily dynamic route optimization for ad hoc orders
- ▶ Real-time based on the fly re-optimization of routes
- ▶ Real-time monitoring of route execution
- ▶ Build in mobile workforce solution
- ▶ Ability to perform route optimization of skips and roll-off transport
- ▶ Black box route optimization services to integrated in any ERP

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- ▶ Container fill level forecast and automated order generation
- ▶ Range of advanced web portal for stakeholder involvement
- ▶ Advanced reporting, BI and analytics
- ▶ Subcontractor management and self-billing

### Mobile Workforce

Look forward to a paperless future through mobile. With extensive experience in implementing mobile solutions, we focus on investing in operational excellence.

Mobile Workforce, our revolutionary on board computer and in-cab tablet solution, enables you to work paperless, reduce costs, increase efficiency and helps eliminate revenue leakage in your collection operations. Giving a return on investment within three to six months. With Mobile Workforce, more work is done and your customers will appreciate a higher level of service, faster billing and optimized routing.

Our in-cab (mobile) solution app is easy to use, operates in real time with a complete overview, and provides smooth back-office integration. This mobile order management app enables digital schedule updates, customer information access, and real-time addition of ad hoc orders, intelligent turn-by-turn navigation, and more. With a significant reduction in wasted journeys, miles traveled, fuel usage and emissions.

#### AMCS Mobile Workforce handles:

- ▶ Paperless workflow reduces errors and improves efficiency
- ▶ Conduct daily safety checks and driver events
- ▶ Send daily routes and schedules to mobile device and add ad hoc orders during day
- ▶ Glance at list and map-view of planned route and work orders
- ▶ View detailed customer information
- ▶ Capture signatures, photos, GPS, etc.
- ▶ Intelligent turn-by-turn and guided navigation
- ▶ Geocoding support
- ▶ Electronically record disposal information

### Vehicle Technology

AMCS Vehicle Technology is the next generation of fully calibrated, real-time and robust bin management. Designed by our highly skilled team of engineers, on-board weighing, bin identification and data collection has never been easier. To date, this technology has registered over 5 million bins. And is fitted on over 5,000 vehicles across local authorities and industrial and commercial waste haulers.

The AMCS Vehicle Technology solutions include:

- ▶ AMCS Vehicle data Hub (VDH)
- ▶ On-board weighing & bin identification

#### AMCS Vehicle Data Hub

The vehicle data hub is a complete on-vehicle hardware solution. Through an in-house developed single hardware box, it collects a wide variety of vehicle data. The single unit has integrated GPRS, GPS, and Wi-Fi. As well as reading RFID data feeds, it handles I/O signals and CAN-bus data. The VDH can be offered as a service, limiting capital expenditure.

#### On-board weighing & bin identification

In order to be able to control costs and increase profitability within the waste, recycling and resource industry, it is essential to be able to identify and determine the weight of waste and recycling containers during collection.

The AMCS Weighing and Identification System enables certified and uncertified automated capture of weight and identification data. The weighing system is type approved to MID 204/22/EC and can be certified to Class Y(a) & Y(b). In addition to this, identification can be achieved through the use of either RFID (UHF/HF or LF) or GPS technology.

The option of GPS identification is a patented application from AMCS. Through the use of a built-in modem, all data can be transferred in real time to the office. Certain containers may be blocked from collection through the use of the integrated stop listing feature, a useful feature in the event of unpaid or overweight containers.

### Digital Engagement

The Digital Engagement solution is a single and secure system that revolutionizes the way you interact and exchange information with customers and suppliers.

The Digital Engagement solution consists of three modules: Customer Webportal, Self-Service Automation and Subcontractor Management. By introducing these modules, we support new and emerging digital channels. Driving the resource industry forward into a new era of customer convenience and operator efficiency.

#### Web Portal

- ▶ View calendar of scheduled pickups
- ▶ Accept and manage order bookings online
- ▶ View jobs and weigh tickets
- ▶ Provide waste and recycling statistics Publish invoices, statements and process online payments

#### Self Service

- ▶ Manage job requests using a mobile app
- ▶ Run on any device
- ▶ Have customers pay for services through the app

#### Subcontractor Management

- ▶ Sub-contracted jobs automatically extracted from Enterprise Management solution
- ▶ Jobs delivered to sub-contractor into Enterprise Management or Dashboard
- ▶ Integrated workflow for job acceptance and changes
- ▶ Send, receive and reconcile invoices
- ▶ Auction Platform

### Analytics

Describe, predict and improve business performance with unparalleled insights across your entire business.

AMCS ongoing mission is to integrate cutting-edge technology with best-in-class processes, delivering the world leading AMCS Platform to your business. AMCS Analytics solution is the latest evolution in this objective, bringing advanced data concepts and enabling streamlined, accurate and autonomous decision making. Operational, financial and performance data is key for our customers to enable them to determine profitability of their services, operations and customers.

- ▶ Industry specific
- ▶ Data Cubes
- ▶ Roll Bases Dashboards
- ▶ Data and BI