



What is Collective?

Modular, paperless system for complete control of all collection, cleansing & maintenance operations.

- Domestic refuse and recycling
- Street cleansing
- Commercial refuse and recycling
- Grounds maintenance
- Licencing and permits
- Environmental Health and Public Safety

Overview

Immediate info at control centre

Customer enquiries
Vehicle messages



Bartec manage all IT and equipment issues – users simply log-in and use the system via the internet

Round updates in real time

New entitlements (assisted collections etc),
bin deliveries, new houses
Round analysis and routing



Reducing round errors

assisted collections, recalls, traffic
information etc

Improved controller info

Non-presentation, contamination,
bins lifted, position, status

Efficient use of wardens

Automatically informed of events (contamination etc)
Household-level participation reporting
Requests for new bins etc
Bin checks



Proven in use

Collective is currently serving over 2 million households throughout over 50 UK Council customers

Over 1,000 mobile working systems in daily use

Customers are listed on our website, along with some very strong case studies

Systems Integration

Successful integrations running today with CRM and financial applications including:

The logo for LAGAN consists of the word "LAGAN" in a bold, black, sans-serif font, with three yellow dots above the letter "A".The logo for northgate INFORMATION SOLUTIONS features a stylized purple figure with an orange dot above its head, followed by the word "northgate" in a purple, lowercase, sans-serif font, and "INFORMATION SOLUTIONS" in a smaller, orange, uppercase, sans-serif font below it.The logo for SAP is a blue square with the word "SAP" in white, bold, sans-serif font, and a registered trademark symbol (®) to the right.The logo for SIEBEL is the word "SIEBEL" in a bold, blue, sans-serif font.The logo for ORACLE is the word "ORACLE" in a bold, red, sans-serif font, with a registered trademark symbol (®) to the right.The logo for CIVICA is the word "CIVICA" in a bold, purple, sans-serif font.The logo for Pitney Bowes MapInfo features a blue grid icon to the left of the text "Pitney Bowes" in a bold, blue, sans-serif font, with "MapInfo" in a smaller, blue, sans-serif font below it.The logo for Microsoft Dynamics features a colorful, multi-pointed star icon to the left of the text "Microsoft Dynamics" in a blue, sans-serif font.The logo for Agresso is the word "Agresso" in a bold, blue, sans-serif font.

Web Services

Web services providing open, secured integration with external systems and web presence

- 'bin day' web pages
- Self-service portals
- CRM integrations

Route Optimisation

Collective integrates with route optimisation engines.

- Monitoring actual routes against planned routes allows the optimisation parameters to be continuously improved
- Harrow are automatically re-optimising every trade round every day so the best sequence is always suggested to the driver.
- Live integration with RouteSmart established at Durham County Council, Gateshead Council and Leeds City Council.

In-Cab Terminal

In-Cab Terminal

- Proven in hundreds of trucks running every day
- Robust touch-screen
- Experienced, high-quality installations compliant with VOSA regulations
- Remote diagnostics, admin and support
- Off-line working
- Interface options, weighing, camera systems, RFID, bin weigh, CanBus



Driver Sign-in

- Driver sign-in
- Start of day vehicle check
- Select round for the day
- End of day vehicle check



Vehicle Check

- Traffic light system
- Report Major and Minor defects
- Major defects reported prevent a Work Pack being selected
- Defect report generated for work shop
- 'Start of Day' and 'End of Day' checks



Selecting a Work Pack

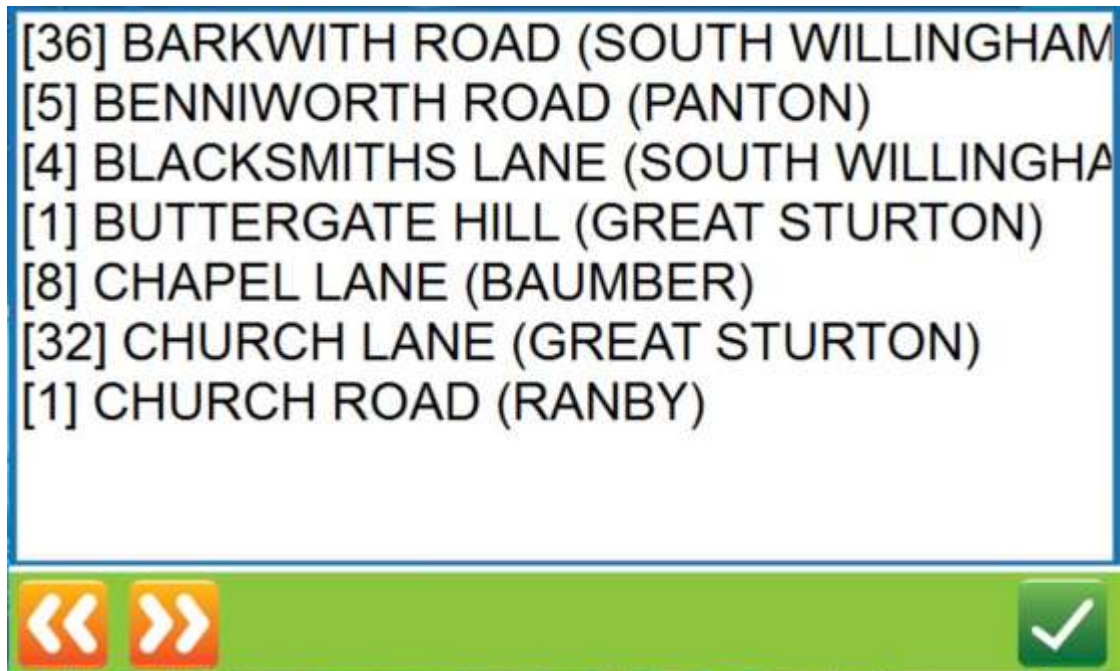
SELECT WORKPACK

Waste-CREW-E-270614
Waste-CREW-F-270614
Waste-CREW-G-270614
Waste-CREW-H-270614
Waste-CREW-I-270614
Waste-CREW-J-270614
Waste-CREW-K-270614
Waste-CREW-L-270614



Domestic Collections View

Once the Work Pack has been selected the driver can view their route street-by-street.






[36] BARKWITH ROAD (SOUTH WILLINGHAM)
[5] BENNIWORTH ROAD (PANTON)
[4] BLACKSMITHS LANE (SOUTH WILLINGHAM)
[1] BUTTERGATE HILL (GREAT STURTON)
[8] CHAPEL LANE (BAUMBER)
[32] CHURCH LANE (GREAT STURTON)
[1] CHURCH ROAD (RANBY)

Navigation controls: left arrow, right arrow, and checkmark.





Standard Domestic Collections View

The cab computer shows crews key information such as:

- Assisted collections
- Multiple bins
- Previously missed bins
- Hazards












 106 ABBEY ...	113 ABBEY ...
107 ABBEY ...	 114 ABBEY ...
 108 ABBEY ...	115 ABBEY ...
109 ABBEY ...	116 ABBEY ...
110 ABBEY ...	117 ABBEY ...
111 ABBEY ...	118 ABBEY ...
112 ABBEY ...	119 ABBEY ...




ABBHEY ROAD

Special Collections View

Display automatically switches to show job list

The Railyway Inn HIGH STREET GATESHEAD 1 Job			
39 FRONT STREET WINLATON 3 Jobs			
REFUSE RECYCLING POINT AREA REAR OF WINLATON 1 Job			
30 THE GARTH FRONT STREET WINLATON 2 Jobs			
4 NEWBANK WALK WINLATON 2 Jobs			

Navigation bar:   

Special Collections View

Special collections require positive reporting to confirm collection. Exceptions events also supported.

COAL AND COKE

MEADOWHALL ROAD
KIMBERWORTH

LATER

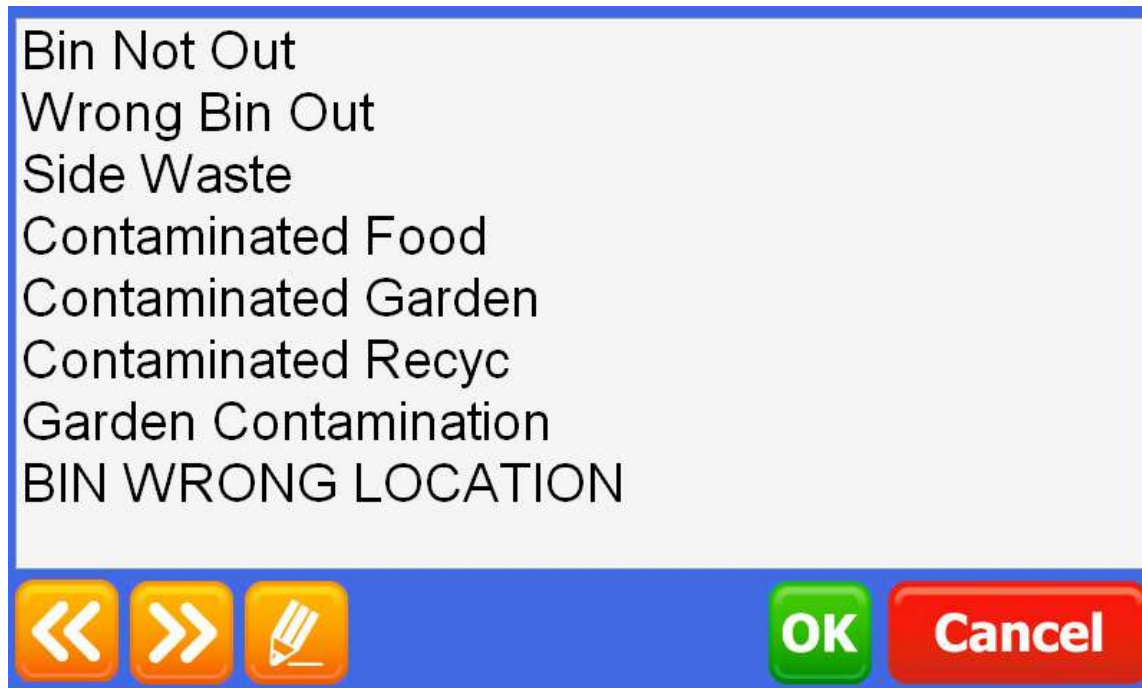
RESET

REPORT

Collect 3 Seater Sofa

Reporting Exception Events

Crews can select one or more premises to record information about.
Data from the truck immediately updates the back-office application.

A dialog box with a blue border and a light grey background. It contains a list of exception events and a blue footer bar with navigation and action buttons.

Bin Not Out
Wrong Bin Out
Side Waste
Contaminated Food
Contaminated Garden
Contaminated Recyc
Garden Contamination
BIN WRONG LOCATION

<< >> ✎ OK Cancel

Reporting Sub-Events

Sub-events can also be reported, for example the type of contaminants. Multiple sub-events are also supported.

A dialog box with a green border and a white background. It contains a list of sub-event categories in bold black text. At the bottom, there are navigation buttons: two orange buttons with left and right arrows, a green 'OK' button, and a red 'Cancel' button.

PLASTIC BAGS
OTHER PLASTICS
POLYSTYRENE
FOOD WASTE
FOOD TRAYS
OTHER PAPER
HOUSEHOLD WASTE

<< >> OK Cancel

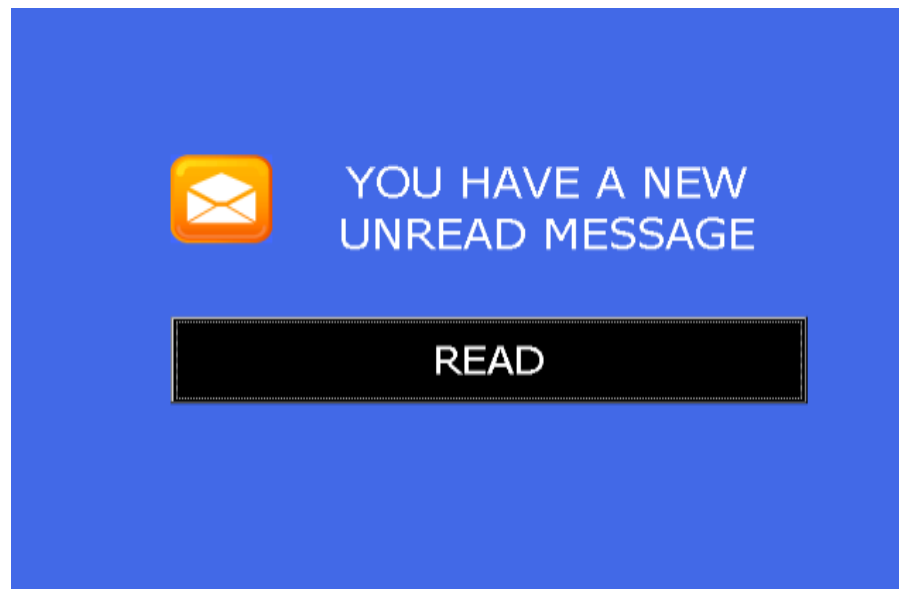
Messaging

New jobs / recalls can go to the crew within minutes.

Round automatically updates.

Missed bins can be resolved on the same day.

Crew get a message to ensure they know the route has changed.



Route Alerts

Route alerts are also relayed to the crew

- Schools
- One side collections
- Road closures



ALERT - SCHOOL ON
STREET

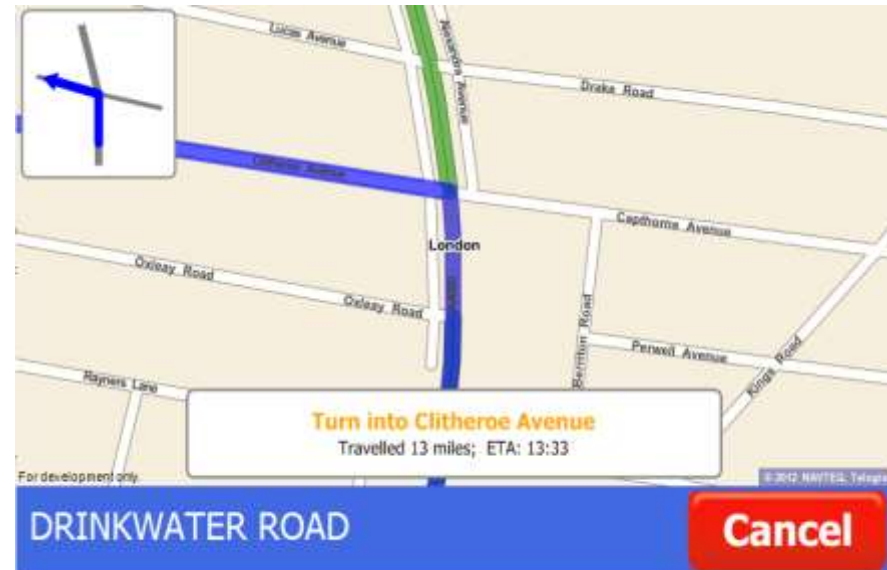
ACKNOWLEDGE

Satellite Navigation

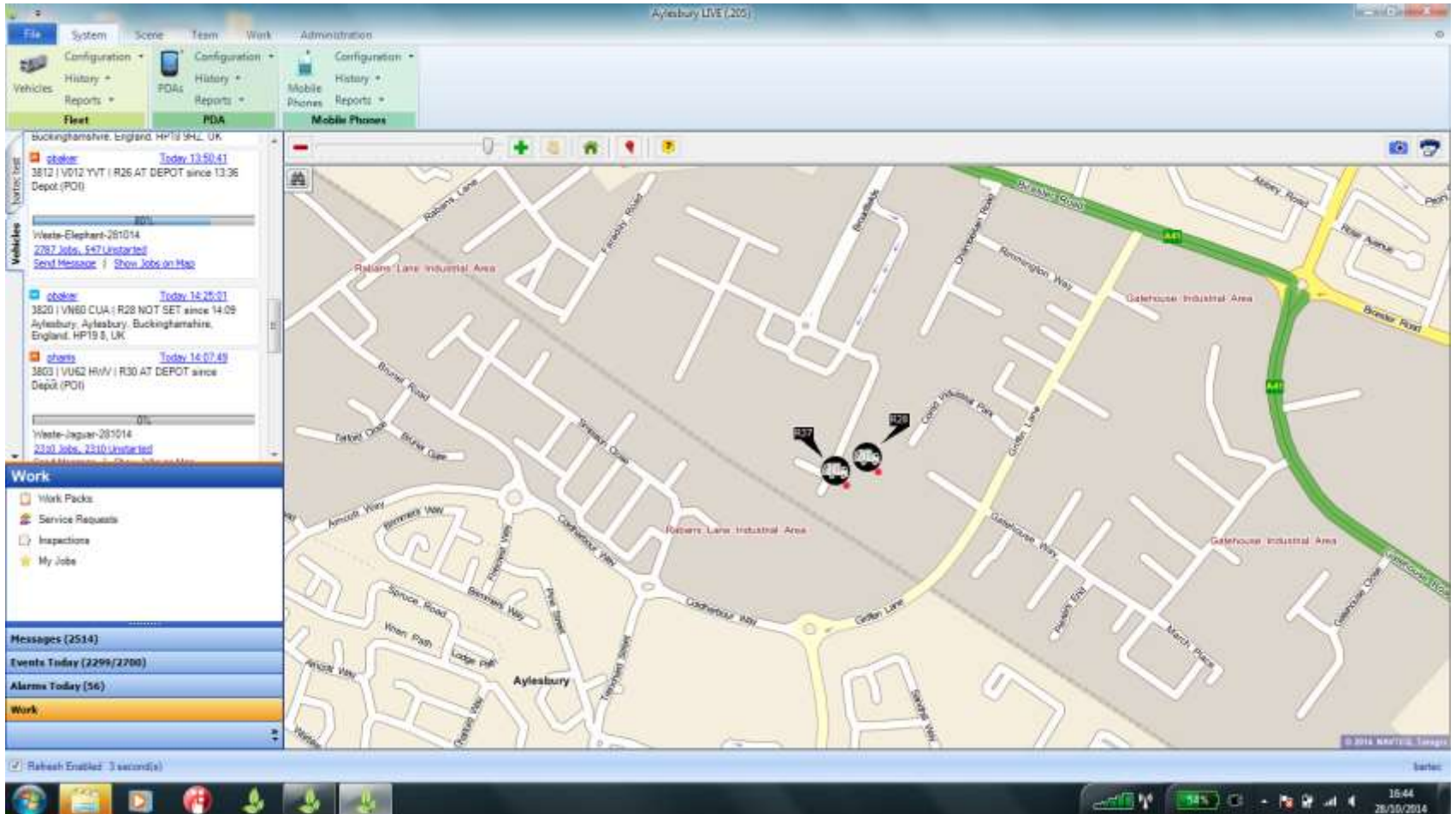
Allows simple, one-click access to the best appropriate route to

- Start of route
- Depot
- Tipping site(s)
- Points of Interest (rest stops, fuel point etc)

System selects an appropriate route for the size of vehicle, using up-to-date traffic restriction information.



Collective Core System



The screenshot displays the BARTEC Collective Core System interface, titled "Aylesbury LIVE (205)". The interface is divided into several sections:

- Top Menu:** File, System, Scene, Team, Work, Administration.
- Configuration Panels:** Vehicles, PDA, Mobile Phones, each with sub-menus for Configuration, History, and Reports.
- Left Sidebar:**
 - Vehicle Details:** Lists vehicles with their status and location. For example, "obalar" (Today 13:50:41) is at "3812 | V012 YVT | R26 AT DEPOT since 13:36 Depot (POI)".
 - Work:** Includes Work Packs, Service Requests, Inspections, and My Jobs.
 - Messages (2514), Events Today (2299/2700), Alarms Today (56):** Summary statistics for these categories.
- Main Map:** A street map of Aylesbury showing the "Robbers Lane Industrial Area" and "Gatehouse Industrial Area". Two vehicle icons are visible on the map, labeled "R26" and "R27".
- Bottom Status Bar:** Shows system information like "Refresh Enabled: 3 second(s)", a battery level of 94%, and the date/time "16:44 28/10/2014".

Collective Core System

Collective system encompasses:

- Collections round management, live and historic views
 - Scheduled work
 - Reactive work
- Service Request Management
- Comprehensive premises history
- Asset register
- In-cab & mobile communications
- Vehicle tracking and monitoring
- Comprehensive management reports

Premises Manager

Premises Manager, a single screen enquiry for all aspects of service to a specific premises.

Clearly shows:

- Collections schedule (past and future)
- Bin register
- Service requests
- Documents
- Parent-child relationships
- Attributes
- Reported events
- Customer accounts (finance profile, account balance, billable items, invoices, documents etc.)

Premises Manager Screen

UPRN: 1002280595 ALLOTMENT GARDENS, ALEXANDRA GARDENS, CROOKHILL RYTON, GATESHEAD

Map Addressing Relationships Features Schedules Attributes Businesses Cases Licences Jobs Inspections **Events** Service Requests Messages Notes Documents

Subject	Link	Event ID	Event Date	Event Type	Sub Events	Work Pack	Image	Added By	Comments
This Premises		30	30 Oct 2014	CONTAMINATION	RUBBLE			barlec	
This Premises		24	16 Oct 2014	NOT OUT		Image: TRADE 1: 16/10/14		Driver 1	
This Premises		25	16 Oct 2014	NOT OUT		Image: TRADE 1: 16/10/14		Driver 1	
This Premises		23	13 Oct 2014	ACCESS ISSUE	PARKED CARS	Image: TRADE 1: 13/10/14		Driver 1	
This Premises		22	10 Oct 2014	ACCESS ISSUE	GATE LOCKED	Image: TRADE 1: 10/10/14		Driver 1	
This Premises		21	10 Oct 2014	DAMAGED RFID TAG		Image: TRADE 1: 10/10/14		Driver 1	
This Premises		19	10 Oct 2014	NOT OUT		Image: TRADE 1: 10/10/14		Gateshead	
This Premises		20	10 Oct 2014	NOT OUT		Image: TRADE 1: 10/10/14		Gateshead	
This Premises		7	09 Oct 2014	DAMAGED RFID TAG				barlec	

Planned Work

- Configure Crews as members of distinct Work Groups.
- Allocate work on any combination of Crew, Day and frequency
- Plan for public holidays, weather exceptions and special events
- Compare schedules against service standards

Reactive Work

- Customised forms for each Service Request type
- SLA applied and automatically routed to a Crew or to intervention queue
- SLA monitored and escalated automatically
- CRM ticket updated in real-time

Service Request Form

New Open Save View Delete Create Documents Actions Create Case

Service Code: SR0027640 Expected Completion: 24 Oct 2014
 Date of Request: 23 Oct 2014 16:31 SLA Date: 23 Oct 2015 16:31 (363 da) OK

Request Reporter Related Items Jobs Missed Bin Details Documents

Request Classification

Class: MISSED BIN

Type: DOMESTIC

Category: General

Default Crew: Waste - Crew 25 FMS

Status: OPEN

SLA: Default

Defer Until: 24 October 2014

Request Relates To

Relationship: [dropdown]

UPRN: 7602852

Address: 100 BICESTER ROAD OAKLEY HP12 9QG

Business: Individual

Completion Details


Date Closed: [input]

Closing Code: [input]

Closing Comments: [input]

Request Location

Selected location: [input]



Location Description

Premises Coordinates	Metric -1.062944.51.804690 BNG 212198N.464292E	Request Coordinates	Metric -1.062944.51.804690 BNG 212198N.464292E
Ward	Bull	Parish	[input]
Land Type	HI		

Notes

Identifier	Type	Public	Notes	Added By	Date Added

Service Requests Status View

Work - Service Requests								Current View	ALL ITEMS	Delete	Save
SR	Service Code	UPRN	Work Group	SLA Status	Date Requested	Premises	Contact Name				
	SR00034037	10070268679	Arboricultural Servi	Breach	13/05/2013 16:42	ROXBORNE PARK VEHICLE ENTRANCE CANNON LANE, PINNER	Quick Customer				
	SR00034039	10070268649	Arboricultural Servi	OK	13/05/2013 16:58	FLATS 41 TO 47A PETERBOROUGH ROAD, HARROW	Harrow School				
	SR00034043	10000001958	Corporate Repairs	OK	13/05/2013 17:57	PUBLIC CONVENIENCE OPPOSITE 659 UXBRIDGE ROAD, PINNER	Pierre Royan				
	SR00034066	100003036257	Arboricultural Servi	OK	14/05/2013 08:30	WESTFIELD COURT 1 WESTFIELD PARK, PINNER, HA5 4JJ	DIFEYA PATEL				
	SR00034110	10070268656	Parks Horticulture	OK	14/05/2013 13:29	KENTON RECREATION GROUND VEHICLE ENTRANCE KENMORE AVENUE, HARROW	m richardson				
	SR00034114	758007041	Responsive + Parks L	OK	14/05/2013 13:38	STREET RECORD REYNOLDS DRIVE, EDGWARE	martin				
	SR00034115	100021313540	Responsive + Parks L	Jeopardy	14/05/2013 13:41	1 ENNERDALE AVENUE, STANMORE, HA7 2LB	Corinne Gibson				
	SR00034116	758006221	Responsive + Parks L	OK	14/05/2013 13:44	STREET RECORD CHARLTON ROAD, HARROW	martin				
	SR00034119	100021258367	Arboricultural Servi	OK	14/05/2013 14:17	66 CHURCH DRIVE, HARROW, HA2 7NS	Davinder Tah				
	SR00034123	100021272733	Responsive + Parks L	Jeopardy	14/05/2013 14:27	2 KENTON PARK CRESCENT, HARROW, HA3 8JA	Tina Gilmarin				
	SR00034125	100021286328	Responsive + Parks L	Jeopardy	14/05/2013 14:38	139 SOMERVELL ROAD, HARROW, HA2 6TZ	S Gardner				
	SR00034128	100021280251	Arboricultural Servi	OK	14/05/2013 14:52	125 THE RIDGEWAY, HARROW, HA2 7QB	Manesh Patel				

Work Packs

- Collective automatically creates work packs for each crew,
- Work packs can be a combination of Scheduled work and Reactive work.
- Work packs are automatically transferred to the in-cab or mobile computers and displayed in sequence order.

Work Packs & Progress View

Work - Work Packs							02/06/2014
Workgroup	Crew	Workpack Name	Crew Size	Completion	Progress	Job Count	
Waste	Crew 29	Waste-FMS-020614	1		100%	0	
Waste	Crew 6	Waste-Fox-020614	4		100%	0	
Waste	Crew 35	Waste-Garden 10-020614	2		18%	656	
Waste	Crew 22	Waste-Garden 1-020614	2		77%	478	
Waste	Crew 36	Waste-Garden 11-020614	3		50%	474	
Waste	Crew 23	Waste-Garden 2-020614	1		20%	1026	
Waste	Crew 24	Waste-Garden 3-020614	1		0%	701	
Waste	Crew 25	Waste-Garden 4-020614	1		100%	621	
Waste	Crew 26	Waste-Garden 5-020614	1		69%	941	
Waste	Crew 27	Waste-Garden 6-020614	1		0%	942	
Waste	Crew 32	Waste-Garden 7-020614	1		99%	947	
Waste	Crew 33	Waste-Garden 8-020614	1		0%	540	
Waste	Crew 34	Waste-Garden 9-020614	1		100%	725	
Waste	Crew 21	Waste-Garden Narrow-020614	1		99%	450	
Waste	Crew 7	Waste-Gorilla-020614	4		100%	0	
Waste	Crew 8	Waste-Hippo-020614	4		100%	0	
Waste	Crew 9	Waste-Impala-020614	4		100%	0	
Waste	Crew 900	Waste-Inspections-020614	1		100%	0	
Waste	Crew 999	Waste-Intervention-020614	1		0%	293	
Waste	Crew 10	Waste-Jaguar-020614	4		100%	0	
Waste	Crew 11	Waste-Kangaroo-020614	4		100%	0	
Waste	Crew 12	Waste-Lion-020614	4		100%	0	
Waste	Crew 30	Waste-Mixed Bins-020614	2		100%	0	
Waste	Crew 31	Waste-Mixed Garden-020614	2		100%	0	
Waste	Crew 13	Waste-Monkey-020614	4		100%	0	
Waste	Crew 28	Waste-Mop Up 1-020614	1		100%	0	
Waste	Crew 14	Waste-Newt-020614	3		100%	0	
Waste	Crew 100	Waste-OPS-020614	2		100%	0	
Waste	Crew 15	Waste-Otter-020614	4		100%	0	
Waste	Crew 16	Waste-Panda-020614	3		100%	0	
Waste	Crew 17	Waste-Quail-020614	4		100%	0	
Waste	Crew 18	Waste-Rhino-020614	3		100%	0	
Waste	Crew 19	Waste-Shark-020614	3		100%	0	
Waste	Crew 20	Waste-Tiger-020614	3		100%	0	
Waste	Crew 37	Waste-Trade-020614	3		0%	1	

Customer Testimonials

Harrow Council

Missed bin call volumes down by 25%
Outbound follow up calls reduced by 95%
£3.2 million to be saved over 10 years

Tamworth & Lichfield

Missed bins down by 35%
95% customer enquiries dealt with in first contact
Recycling up by 2%
£51K annual savings

Exeter City Council

Capital Savings - £340K – reduced fleet, then avoided costs for c. 5,000 new homes
Revenue Savings - £350k over past 3 years

Bolton

Recovered 3000 recycling bins
Cut contamination costs
Retrieved £60,000 bin assets

South Hams

Trade system saves 400 hours in invoicing administration alone

