Requirements/Design Specification

**Capture Commercial Carts**

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Revision** | **Description** | **Author** |
| 09/16/2014 | 1.0 | Initial Version with Requirements | Roger Behm |
| 9/26/2014 | 1.1 | Minor Updates | Doug B and James S |
| 9/29/2014 | 1.2 | Additional Requirments | Roger Behm |
|  |  |  |  |
|  |  |  |  |

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Table of contents

1 Business Requirements 6

1.1 Purpose of the Design Specification 6

1.1.1 Business Functional Requirements 6

1.1.2 BFR Change Log 6

1.1.3 Technical Design Requirements 6

1.1.4 TDR Change Log 6

2 Assumptions 7

3 Technical Design 7

3.1 Referenced Documents 7

3.1.1 Usability Standards 7

3.1.2 Design Standards 7

3.2 Process Flow and Logical Model 7

3.3 Functional Logic 7

3.4 Record Counts 11

3.5 Index on the Tables 11

3.6 Batch Job Schedule and Dependency 11

3.7 Data Sources & Mapping 11

3.8 Physical Data Model 11

3.9 Framework Model 11

3.10 Validation/Error Handling 11

3.11 Interfaces 11

4 Report Changes 11

5 Technical Architecture 11

5.1 Infrastructure Considerations 11

5.2 Data Retention 12

5.3 High Availability 12

5.4 Backup, Rollback and Recover 12

6 Other Design Specifications 12

6.1 Build/Configure Standards 12

6.2 Policies and Procedures 12

6.3 Security Design 12

6.3.1 New or Existing Security 12

6.3.2 Hierarchal Data Access 12

6.3.3 Infrastructure 12

6.4 Environmental 12

7 Appendix 12

# Business Requirements

## Purpose of the Design Specification

The Requirements/design document will describe the support for commercial carts for new and existing customers within the Capture system. This functionality will include Side Load as a route type option. Currently Capture does not support .

### Business Functional Requirements / Configuration

| **Business Functional Requirement** | **Notes** |
| --- | --- |
| Config (Select Service Offering) page, needs to support Commercial Carts | * Add Side Load to “Route Type” dropdown list * Hide Compactor, Casters, Scout route and lock options when a cart option is chosen * Add the following cart options to “Container Size”  |  |  | | --- | --- | | Container Size | Cart Size | | 0.16 | 32 Gallon | | 0.17 | 35 Gallon | | 0.30 | 60 Gallon | | 0.32 | 64 Gallon | | 0.45 | 90 Gallon | | 0.48 | 96 Gallon | | 0.50 | 100 Gallon | |
| Configuration Templates need to reflect cart related data if sold by that division. | * Update all configuration templates to include “Add Side Load” as an option for “Route Type” data validation on the Market Specs tab * Create mechanism for divisions to modify their minimum monthly charge for carts |
| Commerce | * Commercial cart pricing will use the same KPIs and cost formulas as all other commercial containers * Line Item Grid Description – user waste type + cont desc (Solid Waste Cart) |
| Documentation   * CSA * Proposal * Sample Invoice | No change should be needed as data should seamlessly flow to CSA and Proposal  Not impact on Sample Invoice |
| Approvals | Approvals will apply to commercial carts the same as any other container.  Any sale below floor will require approval.”) (NOTE:  is this accurate or is approval deal level for small container? |

### 

### Technical Design Requirements

| **Technical Design Requirement** | **Notes** |
| --- | --- |
| Build structure to hold division specficific minimum monthly charge | * Add table div\_sm\_cont\_factors to house small container configuration data by Lawson division * Add 3 columns to start: division, container\_minumum and cart\_minimum |
| Load new configuration template data into Capture | * Bring in Side Load (SL) to div\_route\_types from configuration templates. * Modify ETL (R Code) to load from DM to BMI as well as read and write config template data for minimums * Make sure Suggested Rate table and parts data is up to date with CA, RC and SL * Change Corp minimum to $10 and confirm every placemat has a value. |
| Schema changes to support pricing | None – |
| Pricing Changes | * Pricing should be same logic we currently use for container |
| InfoPro Integration | * Current filters cannot exclude containers < 1 yard (no change here: we do not filter out containers < 1 yard, we just used to categorize them as Residential. After this next release, we will categorize them as Commercial unless the container\_cd is one of RT,TV,RO,DI,IR,LU,SC,RE,HL,TL in which case it will be Industrial) * There should be few changes (if any) in the XML, but the IFP team may need to address the new data they will receive. |
| 1. Zero yardage | Load as Hand Pickup – ½ yard (Parts table may need something, no asset cost) |
| 1. Misc | Ensure 1.5 and 3 yard will be supported with SL |

# Assumptions

The following items are assumptionsout of scope

* The concept of a small\_container\_factors table for division specific variables
* Cost
* Cart Multipliers (1st vs 2nd and subsequent lifts)
* ROI Factor (currently 6.5 for all)
* Safety cost with driver leaving the truck
* The exercise of updating the configuration templates will need to be performed by the divisions.
* Changes to trucks data table to incorporate multipliers or time adjustments for carts on the basis of truck type (Operations suggested that the primary differential in service times is determined by the type of truck and any technology modifications to truck). Nonetheless, for divisions where carts are predominate, it is assumed that such factors are already included in their division stats.
* Container sizes not included in BFR001 will not be supported or translated into a different size.

Other Assumptions

* The cart sizes outlined in BFR001 will account for just over 98% of carts currently deployed.  Note that the specific cart code is dependent on waste type selection at a minimum.  As part of the process, we’ll need to make sure that any supported cart types (e.g., CA, RC and SL) have parts data fully populated (TDR-001).

# Technical Design

## Referenced Documents

None

## Process Flow and Mock Ups

Use current container process flow and logic

Mockups hopefully to come soon…

## Functional Logic

Use current container functional and pricing logic

## Data Sources & Mapping

For detailed mapping information, please refer to the BMI [Enterprise Mapping Document](http://itpmo-2013projects/Pricing%20Initiative/2.0%20Planning%20and%20Requirements/BMI%20Enterprise%20Mapping%20Document.xlsx).

## InfoPro Interface

Per email from Candace to Brittany on 9/29/14, InfoPro developers confirmed as long as the container type/size information comes to us in the existing XML tags there should be no issue on our side

# Report Changes

No Changes

# Technical Architecture

## Infrastructure Considerations

No changes to infrastructure.

## Data Retention

No changes to data retention.

## High Availability

Not Applicable.

## Backup, Rollback and Recover

No changes to backup and recovery procedures.

# Other Design Specifications

## Build/Configure Standards

Reference Aldon procedures for Capture.

## Policies and Procedures

Conforms to all published IT policies and procedures.

## Security Design

### New or Existing Security

No Changes.

### Hierarchal Data Access

No Changes.

### Infrastructure

No Changes.

## Environmental

No Additional environmental requirements.

# Appendix