Requirements/Design Specification

**July2015 GH550**

**Existing customer (small container) formulas for service change guardrails are incorrect (CR 14080)**

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Revision** | **Description** | **Author** |
| 5/18/2015 | 1.0 | Initial Version with Requirements | Gaurav Dawar |
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# Business Requirements

## Purpose of the Design Specification

This document highlights items to be fixed and implemented for the titled release.

### Bug list for current release

| GitHub Item  Number | **Description** |
| --- | --- |
| 550 | Existing customer (small container) formulas for service change guardrails are incorrect (CR 14080) |

# Overview and Assumptions

These formulas were implemented wrong from the implementation itself. Now these are fixed in R and the exact formula changes need to flow through Capture “Calculate guardrails” Util library function as well.

# Design

## #550 Existing customer (small container) formulas for service change guardrails are incorrect (CR 14080)

## Old incorrect R formulas

### Floor:

((cost\_to\_serve\_month / (1 - curr\_margin\_percent + svc\_base\_marg\_prem)) + apply(cbind(0,(((cost\_to\_serve\_month / (1 - base\_margin\_new)) - (cost\_to\_serve\_month / (1 - curr\_margin\_percent + svc\_base\_marg\_prem))) \* svc\_gap\_recovery\_pct)),1,max))

### Avg:

((cost\_to\_serve\_month / (1 - (curr\_margin\_percent + svc\_targ\_marg\_prem))) +

apply(cbind(0,(((cost\_to\_serve\_month / (1 - target\_margin\_new)) - (cost\_to\_serve\_month / (1 - curr\_margin\_percent + svc\_targ\_marg\_prem))) \* svc\_gap\_recovery\_pct)),1,max))

### Target:

((cost\_to\_serve\_month / (1 - (curr\_margin\_percent + svc\_str\_marg\_prem))) + apply(cbind(0,(((cost\_to\_serve\_month / (1 - stretch\_margin\_new)) - (cost\_to\_serve\_month / (1 - curr\_margin\_percent + svc\_str\_marg\_prem))) \* svc\_gap\_recovery\_pct)),1,max))

## New Correct R formulas

### Floor:

((cost\_to\_serve\_month / (1 - (curr\_margin\_percent + svc\_base\_marg\_prem))) + apply(cbind(0,(((cost\_to\_serve\_month / (1 - base\_margin\_new)) - (cost\_to\_serve\_month / (1 - (curr\_margin\_percent + svc\_base\_marg\_prem)))) \* svc\_gap\_recovery\_pct)),1,max))

### Avg:

((cost\_to\_serve\_month / (1 - (curr\_margin\_percent + svc\_targ\_marg\_prem))) +

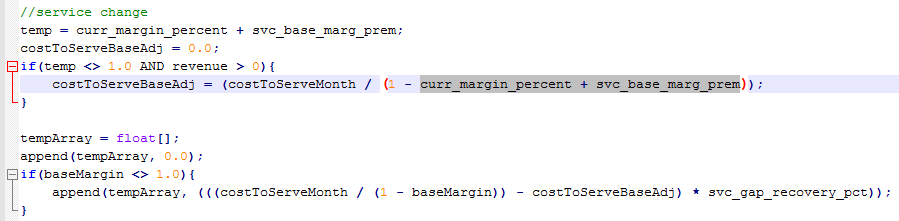
apply(cbind(0,(((cost\_to\_serve\_month / (1 - target\_margin\_new)) - (cost\_to\_serve\_month / (1 - (curr\_margin\_percent + svc\_targ\_marg\_prem)))) \* svc\_gap\_recovery\_pct)),1,max))

### Target:

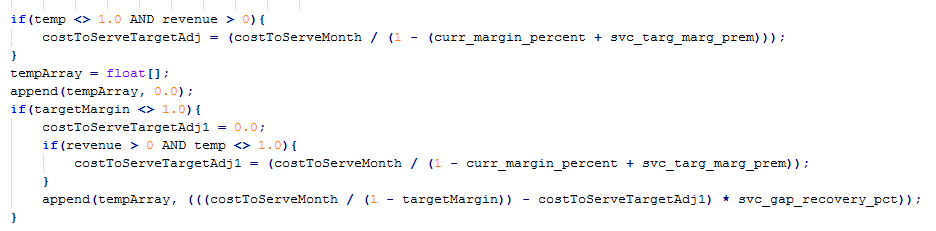
((cost\_to\_serve\_month / (1 - (curr\_margin\_percent + svc\_str\_marg\_prem))) + apply(cbind(0,(((cost\_to\_serve\_month / (1 - stretch\_margin\_new)) - (cost\_to\_serve\_month / (1 - (curr\_margin\_percent + svc\_str\_marg\_prem)))) \* svc\_gap\_recovery\_pct)),1,max))

## Capture Formulas

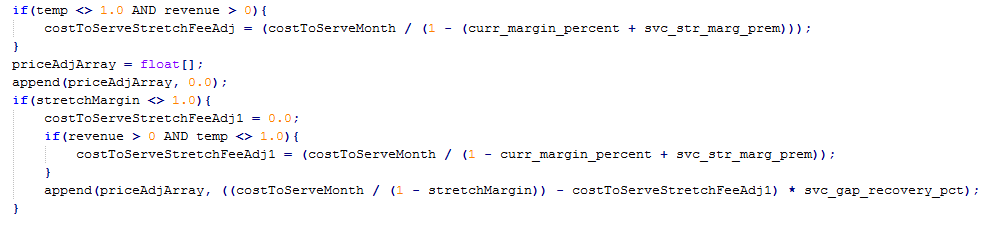
### Floor:



### Avg:



### Target:



# Impacted Systems (InfoPro, TIBCO and BI)

No new variables, So it should not affect InfoPro AAE process.

# Report Changes

NA

# Appendix