# FraudCaster Master Design Document

**Prepared By** 



# For

Department of Human Services District of Columbia

> 80 Blue Ravine Rd., STE 250 Folsom, CA 95630 (916) 389-7800 www.ponderasolutions.com

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# 1. Overview

## 1.1. Document Purpose

The Master Design Document (MDD) outlines the configuration of Pondera's Fraud Detection as a Service (FraudCaster) solution. This document is intended to provide the District of Columbia (DC) Department of Human Service, hereafter known and referred to as "Customer", with an understanding of the configuration and solution design to be executed by the Pondera team to meet the Scope of Services contained in the Statement of Work. Upon sign-off, Pondera will leverage the information in this document to initiate the Customer configuration of Pondera's FraudCaster solution.

## 1.2. Document Scope

Pondera is a Software as a Service (SaaS) organization. As such, it is important to note that minor code changes, user interface enhancements, and other solution modifications may be implemented throughout the design, configuration, implementation, and subsequent Go Live phases of the project. These opportunities for continued fine-tuning and innovation may be implemented with coordination from the assigned Customer Success representative assigned to the project. This Master Design Document contains the requirements captured as of the date of signature and confirms the agreed upon solution requirement specifications.

## 1.3. Document Approach

Pondera's PROP Process produced the following artifacts, which are documented in this deliverable: MDD

- Data Fields and Mapping
- Data Dictionary
- High Value Retailer and Recipient Alerts
- Indicators
- Reports
- Profiles
- Role-Based Access Control (RBAC)

## 1.4. Document Version History

#### **Figure 1: Document Version History**

Date			
Version Author(s) Submitte		Submitted	Notes
1.0 Amanda Huston Initial Vers			Initial Version
2.0 Tracy Miller Update to Data Delive		Update to Data Delivery & Release Date	

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# 2. Definitions, Acronyms, and Abbreviations

Terminology	Definition	Abbreviation
Alert	Alerts/Reports are produced as a result of analytics operating on any combination of Customer and 3 <sup>rd</sup> party data. They typically alert the Customer to anomalous behavior and conditions that warrant further review.	Alert/Flag
Change Control Board	A designated group within Pondera that reviews and authorizes the content and delivery or software releases for the Customer.	CCB
Entity	A term used to describe a specific type of thing but in the abstract, e.g., a business entity (without naming a specific business).	
FraudCaster	The branded name for Pondera's analytic platform offered as a cloud-based, Software as a Service (SaaS).	FC
Geospatial	Refers to geographic mapping capabilities, which includes showing Google maps and the ability to map coordinates and relationships based on Customer and 3 <sup>rd</sup> party data points.	Geospatial
Indicator	An indicator is an informational data point from the perspective of a given Retailer's or Recipient's Profile.	Indicator
Master Design Document	This document is produced following the PROP, it is formal sign-off between Pondera and the Customer for the agreed upon system functionality which will guide the implementation of the customized solution for the Customer.	MDD
Module	A specific component or section of functionality within FraudCaster or CaseTracker.	Module
My List	A tool in FraudCaster that allows the user to track any alert or entity. My List is unique to each user in that other users cannot see the Retailers, recipients, or alerts you are monitoring.	My List
Pondera Requirements Onboarding Process	This is the process followed by Pondera to interact with the Customer to understand the system requirements.	PROP
Pondera Risk Score	A composite score assigned to Households based on the frequency and severity of alerts that have been tripped for the Household / members.	Pondera Risk Score
Profile	A summary view of demographic and transaction activity for a given Retailer or Recipient. Data typically includes enrollment information, related flags and indicators and transaction summary information as well as geographic mapping.	Profile
Recipient	An individual enrolled in a benefit program.	Recipient

Figure 2: Definitions, Acronyms, and Abbreviations

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Terminology	Definition	Abbreviation
Release Notes	A description of all the new functionality and changes that are included in a release.	
Releases	Each iteration of new software which is released to the production environment. Releases tend to have new features, enhancements, and fixes to known issues.	
Role-based Access and Controls	A security concept which defines certain business roles, each of which in turn have specific systems functionality to which they are limited.	RBAC
Scorecard	Pondera's branded system component which synthesizes prescribed alerts produced by the system over time and ranks the most anomalous Households based on the number and severity of alerts they have tripped.	Scorecard
SQL Server Reporting Services	Tools and services that create, deploy, and manage mobile and paginated reports.	SSRS
Statement of Work	Contractual document which describes in broad terms, the functionality and pricing for the system to be delivered and maintained by Pondera.	SOW
SuperSearch	Pondera's capability to do fuzzy searching for specific words or phrases across numerous data stores.	SS
TR CLEAR	FraudCaster leverages and integrates Thomson Reuters CLEAR database, which pulls from over 60 data sources to provide DOH access to billions of additional records about individuals and businesses for analytics and reporting. These sources include individual and business records, identity information, criminal backgrounds, incarcerations, deceased status, best known address, affiliates, linkages, social media, and more.	CLEAR

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# 3. **Project Overview**

## 3.1. Introduction

Pondera's FraudCaster is an innovative solution that assists state governments in the prevention and detection of improper payments, and suspected fraud, waste, and abuse (FWA). It is built "by investigators, for investigators," and includes powerful tools to detect fraud, investigate suspicious behavior, and enforce Medicaid rules. Pondera brings the industry's most robust, flexible, and user-friendly fraud detection solution, and the project team is leveraging this solution to deliver an exceptional service for the Customer to assess areas of compliance and risk within their plan.

## 3.2. Project Schedule

The Pondera FraudCaster solution will be delivered in multiple releases. This allows Pondera to deliver the dashboard and leads sooner, and through an agile development process, will support continual learning and enhancements to the solution over time. Through this learning and iterative process, Pondera will release additional modules and include additional data sources as determined necessary. The current schedule and summary of release components is identified below.

Release #	MDD Sign-Off	Release Date	Release Components		
SuperCLEAR		Dec 2020 **pending DC execution of credentialing documents	<ul> <li>SuperSearch module with CLEAR data integration</li> </ul>		
1		May 5 **Pending receipt of complete DC source data by 1/31/2021	<ul> <li>Profiles</li> <li>Alerts (up to 20)</li> <li>SuperSearch</li> <li>Household Scorecard</li> <li>Geospatial Maps (3)</li> </ul>		

### Figure 3: Project Release Schedule

## 3.3. Assumptions, Constraints, and Restrictions

If during the configuration process Pondera identifies that there is insufficient data to support any of the alerts/reports identified during PROP (Pondera Requirements and Onboarding Process), or if a selected alert has insufficient results, Pondera will work with the Customer to select a more viable alert. This will help to ensure the quality of the alerts provided in Release 1.

Through the PROP process and assessment of available data, Pondera and the Customer have identified the critical types of Alerts and Reports needed for the Customer to manage suspected fraud, waste, and abuse with Release 1 of the project.

## 3.4. SuperSearch

SuperSearch is a feature of FraudCaster that allows users to search the Customer's data on a range of data elements for Retailers and recipients. The specifications below will be built out for Release 1. Following Release 1.0, the Pondera team will work with the Customer to identify requested

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configuration changes, process them through the change control protocol, and implement them in future releases.

When a SuperSearch is performed, it produces a list of match candidates, each with summary information. While maintaining the list of candidates, the user can select each row and receive more detailed information in a mini profile without leaving the search results page. When the desired candidate is identified, the user can proceed to the full profile from a mini-profile button or a search results hyperlink. All users will have access to the Standard SuperSearch functionality with two (2) users granted SuperSearch Premium permissions, which will offer the ability to search public records and social media data in addition to the Customer's program data. Additional premium licenses can be provisioned pending a SOW change order.

D OF HOUSEHOLD	500	Show 25 v entries		Search:		TIMOTHY JONES
LL RECEPIENTS	31	Name	Address	Case Number	11 Status	First Name T Last Name JONES
Retailers	31	T Jones	1234 Make Up Lane, Nashville, TN 37011	657849000	Open	SSN 123456789
letallets		AMANDA JONES	1222 Straight Ave, Chattaneoga, TN 23411	559471000	Open	Birth Date 08/13/1978 Age 32
		CORINE JONES	123 Party Way, Memphis TN 37121	738303100	Open	Home Phone N/A
		JONEY JONES	234 Lost Road, Borre City, TN 23414	656838000	Terminated	Cell Phone 867-5309
		JANA JONES	234 Eddie BLVD 30843, Memphis, TN, 89103	556838000	Terminated	Work Phone N/A Messaging Phone N/A
		CHRISTOPHER JONES	4400 S JONES BLVD 3113, MEMPHIS, TN, 37021	842893000	Open	Email BigJones@aol.com
		JANA JONES	4400 S JONES BLVD 3113, MEMPHIS, TN, 37123	842893000	Open	Case Number 557849000
		JULIE MOYER	1222 Straight Ave, Chattanooga, TN 23411	856140000	Terminated	Status Terminated Address 1234 Make Up Lane
		ALEXIUSA JONES	123 Party Way, Memphis TN 37121	652487100	Open	Nashville, TN 37011
		PAMELA JONES	234 Lost Road, Some City, TN 23414	395847100	Open	UPI Person ID
		DARA JONES	234 Eddie BLVD 30843, Memphis, TN, 89103	830058000	Terminated	Annual Transaction Amount \$1,761.8 LTD Transaction Amount \$3,379.50
		FRED JONES	4400 S JONES BLVD 3113, MEMPHIS, TN, 37021	102092100	Denied	Household Size 1
		HERMINIA JONES	4400 S JONES BLVD 3113, MEMPHIS, TN, 37123	733212100	Denied	Homeless U Last Transaction Date 10/14/2019 Deceased
		MICHAEL JONES	1222 Straight Ave, Chattanooga, TN 23411	183986100	Open	
		ARRIANNA JONES	123 Party Way, Memphis TN 37121	936669000	Open	
		CHRISTINE JONES	234 Lost Road, Some City, TN 23414	993027100	Open	Expedited Yes
		TREVON JONES	53 234 Eddie BLVD 30843, Memphis, TN, 69103 638014100	Open		
		DONALD JONES	4400 S JONES BL/D 3113, MEMPHIS, TN, 37021	758920100	Denied	
		GERALDINE JONES	4400 S JONES BLVD 3113, MEMPHIS, TN, 37123	758920100	Denied	View Profile
		MARCELLUS JONES	1222 Straight Ave, Chattanooga, TN 23411	275075100	Open	Individual Search
		ANGELO JONES	123 Party Way, Memphis TN 37121	039474100	Open	
		JARION JONES	234 Lost Road, Some City, TN 23414	251893100	Open	
		BONNIE JONES	234 Edde BLVD 30843, Memphis, TN, 89103	116604100	Terminated	
		AMARIA JONES	4400 S JONES ELVD 3113, MEMPHIS, TN, 37021	222840000	Open	
		JEREMIAH JONES	4400 S JONES BLVD 3113, MEMPHIS, TN, 37123	629528000	Terminated	

#### Figure 4: Super Search view and Mini- Profile

## 3.5. Alerts & Reports

Alerts and Reports are available through the Dashboard and can be accessed by users to evaluate Retailer and recipient behavior patterns. The Pondera solution was developed so that the results of the alerts, reports, and data are usable, intuitive, and easily viewed. The solution supports varied functionality to effectively communicate results via the Customer's dashboard, utilizing implemented data models and analytical measures. Through the PROP process and assessment of available data, Pondera and the Customer have identified the critical types of Alerts and Reports needed to manage areas of compliance and risk within the program. The following sections outline additional details pertaining to Alerts and Reports.

All Alerts contain hyperlink functionality to the associated Retailer/Recipient profiles. Matching criteria is based on available data and dependent on the third-party source, if used.

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### 3.5.1. Alerts

Alerts are bucketed into three categories within the Dashboard: Retailer Alerts, Recipient Alerts and shared alerts for common attributes. All Alerts are accessed and reviewed within FraudCaster, and when drilling down into an Alert, the user will always see a standard set of fields pertaining to the entities associated to a given Alert. Furthermore, Alerts are assessed according to an Alert Categorization Key which factors in additional data such as Alert Tier Types as seen identified in the Figure below.

#### **Figure 3: Alert Categorization Key**

	Tier Types					
1	Potential for Fraud/Risk					
2	Highly Suspect					
3	Needs Review					
4	Suspect Element					
5	Informational Data Point					

#### Recipient and Retailer Alerts

For Recipient and Retailer Alerts, within FraudCaster, when drilling down into an Alert, the user will always see a standard set of fields pertaining to the entities associated to as shown in the Figures below.

Standard Fields on Recipient Alerts					
Tier	Rank				
Recipient First Name	Recipient Last Name				
Case ID	Recipient ID				
Recipient Gender	Recipient DOB				
Total Benefit Amount	Total Benefits Spent				
Detail Bar (Alert Action, Watchlist)	Other Alert specific information				

#### **Figure 6: Fields for Recipients**

#### **Figure 7: Fields for Retailers**

Tier	Rank
Retailer Name	Retailer FNS
Retailer Address	Retailer City

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Retailer State	Retailer Zip
LTD Transaction Amount	LTD Transaction Count
Detail Bar (Alert Action, Watchlist)	Other Alert specific information

### 3.5.2. Release 1 Alerts

Figure 8 below, outlines additional details pertaining to the up to 20 Alerts committed for Release 1. There are 23 alerts listed to allow for any shifts once the algorithms are run against the client dataset.

Priority #	Flag ID	1-5 Flag Tier	Flag Type	Flag Display Name
3002	1	В	Deceased Recipient	Recipient has transactions with dates after date of death
3022	1	В	Recipient Incarcerated during Period of Eligibility	Recipient has program status of "Open" or "Pending" and an overlapping period of incarceration in a prison
3011	2	В	Prolonged Out-of- State Transactions	Recipient has 90 days of out-of-state transaction activity
3013	2	В	Exclusive Out-of- State EBT Utilization	Recipient has exclusively utilized their EBT card out of state for the last 60 days (Date of last transaction and number of days included in details for filtering/sorting)
3401	2	В	ID Theft / Synthetic ID	Recipient demographic information contains 2 or more indicators of synthetic or stolen identity
3216	2	В	PARIS Interstate Match	Identifies Recipients with a match to the PARIS Interstate data where DC is the second state where benefits derive.

## Figure 8: Release 1 Alerts

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3218	2	В	High Dollar/Whole Dollar Transactions	Identifies Recipients with high dollar/whole dollar transactions for at least a consecutive 3-month period. High dollar is derived across all the transactions.
3219	1	В	Exclusive Out-of- State EBT Utilization	Recipient has exclusively utilized their EBT card out of state
3005	3	В	Recipients Traveling 25 Miles or More	Recipients traveling greater than or equal to 25 miles with transactions of \$100 or more at a Big Box/Super Club
3016	1	В	Double Dippers	Identifies recipients associated with two or more cases in a month.
3018	3	В	Recipient Transaction Spike at SuperClub	Recipient has a large transaction amount spike involving SuperClub Retailer within 48 hours after convenience store transaction
3021	3	В	Small to Large Transaction	Recipient has a small transaction followed by a large transaction at same location. Small is less than \$5.00/large is \$100 or more.
3403	3	В	Excessive Balance Inquiries	Recipient has requested their EBT card balance 12 or more times in the last 12 months
3404	3	В	Excessive EBT Address Changes	Recipient has changed their EBT card mailing address 2 or more times in the last 12 months
3405	3	В	Recipient Address is a CMRA	Recipient's residential address matches to known CMRA.
New	2	В	EBT Cards mailed out of District	EBT cards mailed out of District; those furthest away have highest rank.
3027	2	R	Smash and Grab Alert	Multiple abnormal spikes in transaction activity
3028	2	R	Transaction Volume Spike Indicator	Transaction volume (#) increased 150% or more over the previous 3-month period

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3029	2	R	Transaction Amount Spike Indicator	Average transaction amount (\$) has increased 150% or more over the previous 3-month period
3030	2	R	Recipient Volume Spike Indicator	Recipient volume (#) has increased 150% of more over the previous 3-month period
3032	2	R	Convenience Stores with High Dollar Transactions	Identifies convenience stores with greater than 50% of their transactions for amounts of \$50 or more
3042	3	R	Retailers with High Volume of Traveling Recipients	Retailers with recipients traveling greater than 2.5 miles at a rate that exceeds the peer average by 20% or more
NEW	2	В	Households Sharing Device ID	Two or more households using the same Device ID (Data from Citizen Portal and IP Address from additional data sets)

## 3.6. Scorecard

Scorecard allows users to rank the household with the highest level of overall non-compliance and risk within the program for potential overpayments. Alert information, along with other analytics and patterns, are fed into Pondera's algorithm and assigned a risk score from 0-100. Factors such as number of alerts, the variety of alerts, rank, and tier are combined. After system deployment on the initial go live, Pondera will tie together outcome data from the case tracking system to continually fine tune the risk scoring algorithm to triage the highest risk cases to the top. These metrics are continually reviewed during quarterly reviews.

### Figure 9: Scorecard, Scorecard Popup and Scorecard Filters

Scorecard						+ - 6
		Enter Recipient Name or	ID to Search Scorecard	Search	Reset	
tow 10 w	v entres					74
Pondera Risk S	Score 11 Recipient Name	[] Case Number []	Head of Household	Benefit Amount	Resedential Address	
0	GEORGE WASHINGTON	R80165	Yes	\$130,687.17	123 Main Street, Las Vegas, NV 88901	
•	THOMAS JEFFERSON	R49071	Yes	\$10,063.50	123 Main Street, Los Angeles, CA-90210	
0	JOHN ADAMS	R96771	Yes	\$43,362.57	123 Main Street, Chicago, IL 60657	
•	ABRAHAM LINCOLN	R00649	No	\$107,411.85	123 Main Street, Nashville, TN 37011	
•	ANDREW JACKSON	R97316	Yes	\$60,266.24	123 Main Street, Louisville, KY 40018	
۰	JAMES MADISON	R06519	No	\$29,264.12	123 Main Street, Spokane, WA 99201	
•	FRANKLIN PIERCE	R01564	No	\$130,019.97	123 Main Street, Salt Lake City, UT 84044	
•	THEODORE ROOSEVELT	R90546	Yes	\$113,406.74	123 Main Street, Denver, CO 80014	
•	WARREN G. HARDING	R30167	No	\$33,873.34		
•	GERALD FORD	R87940	Yes	\$17,765.26	123 Main Street, Redding, CA 96001	
ERALD F				Scorecard R	esults Filter	Previous 1 2 3 4 5 19 No
tisk Scor	re 🔘		•	Scheme	Pattern Please Choose	a v
	15 30 45	60 75	90 100	HH Comp	Please Choose	a v
lert(s)						
	Name	Tier	Rank			
Flag	Ineligible facility residence	1	4			
	mengiore racinty residence					

**Scorecard Columns**: Pondera Risk Score, Recipient Name, Recipient ID, Eligibility Case Number, Benefit Amount, Residential Address

Filters: Scheme Pattern (Trafficking, Eligibility [Multi-select]) and HH Composition

The scorecard also has the ability for an individual household to be 'cleared' so they are removed the list.

### 3.7. Profiles

Profiles present FraudCaster users with information related to a Retailer or recipient and contain a combination of the Customer's data and Third-Party data, dependent on Alert/Report selections. Profiles contain basic demographic and Customer data for a given entity and identify if that entity has any associated suspected fraud or abuse Indicators. Because the Customer data tracks both Retailers and recipients, Pondera has configured two distinct profiles, which contain different basic information and distinct types of Indicators. This section outlines the profile information to be configured for Release 1.

### 3.7.1. Household Profiles

Below is a Release 1.0 mock-up of the Household Profile, which includes demographic information and indicators. In addition, the profile will display a detailed view containing street view map displaying physical location and all Alerts tripped for Release 1.

Note: Household profiles are designed to be specific to a SNAP eligibility case. The head of household information would be displayed on top and the household member information would be displayed below.

Household Profiles will also have indicators for any shared alerts, CMRA indicator, and Trafficking. The indicators will be green if there is no concern or red if the underlying data shows non-compliance. Additional data (such as the shared phone number) would be provided.

**Figure 10: Household Profile and Indicators** 

	Demographics as of June 2019 (Newest)		Waterviet(s)		
Head of Household	Case Number DOB:	Recipient ID			
Address:	City:	State:			
County:	Zip:				
Morital	Gender:	Age: Household			
Status:	US Citizen:				
Email:		Simplified	Size:		
Phone Number:	Homeless:	Reporter:			
	Program Status				
SNAP	Other programs?				
Status: Terminated					
Eligibility: 06/2019					
	Household Members				
Name SSN	DOB Address	City State	Relationship		
	Recipient Transaction Summary				
Annual Transaction Count	LTD Transaction Count:	Total Retailers:			
Annual Transaction Amt:	LTD Transaction Amt:	Last Transaction	Date:		
	Shares with other Recipient				
Address: No	Phone: No	Em	ail: 📕 No		

### 3.7.2. Retailer Profiles

Retailer Profiles will be built off the data provided and will have summary information for the retailer along with any alerts listed. Shared Indicators will also be available along with an indicator for Alert 3032 (Convenience Stores with High Dollar Transactions).

#### Figure 11: Retailer Profile

Retailer Profile	Ð			+	- 0
		Base F	Retailer Information		
Retailer Name:	QUICKIE MART			DBA Name:	Not Available
Website URL:	Not Available	Tax ID/FEIN:	Not Available	FNS #:	
Address:	123 Simpsons W	lay			
City:	Spring Field	State:	?	Zip:	Not Available
County:		Phone Number:	408-916-2290	Email Address:	Unknown
Business Category Code:	##	Business Category Description:	Unknown Business Type	Total # of Stores:	Not Available
	R	etailer Transac	Watchlist(s)		
Appusl Tot	al Transaction #:	22	1.70	Total Daids and	7.00
				) Total Paid: \$11	
Annual Total Paid: Total Recipients (Most Recent Batch):		\$117.86	Annual Average Transaction Amt: \$5.36 % of Recipients Traveling 50 Miles+ (Most Recent Batch): 0.00%		

## 3.8. Geospatial

Geospatial maps are available in 2 locations: Entity profiles (recipient/retailer) when it is available for all entities or on the geospatial tab where it will highlight a subset of entities. The maps are interactive, and users can zoom in/out as well as move the map around.

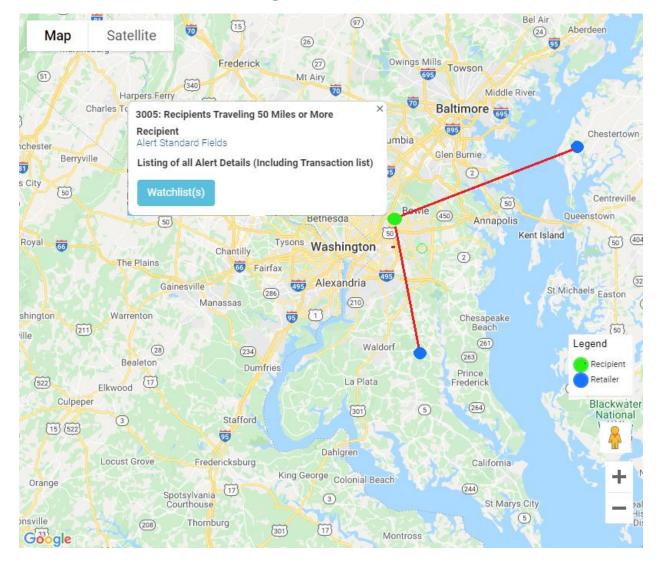
3005: Recipients traveling greater than or equal to 25 miles with transactions of \$100 or more at a Big Box/Super Club

Fields displayed on node:

- Recipient Standard fields
- Largest Purchase in previous 90 Days
- Count of Transactions at Super Club
- For each Big Box Retailer:
  - Retailer information (Name, Address, FNS Number, Phone Number)
  - Distance from Recipient
  - Transaction Amount and Date (Can be multiple)

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#### Figure 12: Alert 3005

3018: Recipient has a large transaction amount spike involving SuperClub Retailer within 48 hours after convenience store transaction

Fields displayed on node:

- Recipient Standard fields
- Transaction Spike Count
- For each Transaction Spike:
  - Convenience Store Information (Name, Address, FNS Number, Phone Number)
  - Transaction Amount and Date
  - Super Store Information (Name, Address, FNS Number, Phone Number)

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- $\circ \quad \mbox{Transaction Amount and Date} \quad$
- o Hours Between Transaction
- Spike % Increase

### 3.9. Role-Based Access

FraudCaster includes configurable Role-Based Access (RBAC) so that each user is allowed access to the information that is most pertinent to their work. Each user's role will be identified prior to training. Customized roles may be added or modified during development and after Go Live. The Case Tracker system will have its own RBAC with separate abilities.

The following matrix identifies the modules each role can access. Below are the standard roles specifically related to the Customer's users. Prior to training, the Customer will identify which roles to enable and the associated module access by completing the RBAC Matrix.

		Access to Module						
#	Role Type	Profiles	Standard SuperSearch	Super Search Premium	Geospatial	Alerts / Reports	Scorecard	
1	Basic User	Х	Х		Х	Х	Х	
2	Premium User	Х	Х	Х	Х	Х	Х	
3	Restricted role	Х	Х					

#### Figure 13: Role-Based Access Matrix

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# 4. Document Approval

Release 1 MDD and Requirements Design Matrix Approval

I have reviewed the requirements and specifications specific to Release 1 in the Pondera Master Design Document related to FraudCaster approve them for configuration work. I understand that changes to these specifications during the development process could delay go-live, depending upon the scope of the requested change(s).

*Client Approval – DC Department of Human Services Office of Program Review, Monitoring & Investigations* 

Christa Phillips, Chief Accountability Officer

Date 01-05-2021

Pondera Approval

The Plast

Date 1/7/2021

Tom Lucero, Senior Director of Technology