

Application Characteristics

Configuration Guide (illion Decisioning Product Module)

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Overview

This document outlines the steps required in order to configure Application Characteristics in illion Decisioning for use in the illion Decisioning Product Module.

Application Characteristics (characteristics) are data points that can be used to determine which variant of each product, adjustment and promotion on an application should be used, and there are two components involved in their configuration.

- Configure the characteristics and characteristic values (Characteristic Management)
- Configure the characteristic calculations (Product Selector)

Configuring the data values can be done through a user friendly interface suitable to business users and the configuration of the calculation requires knowledge of the application's xml structure.



Characteristic Management

The characteristic management page can be accessed from:

Administration Menu> Product & Plan Configuration > Manage Characteristics



Characteristic Types

There are three types of characteristics

- List Each value is explicitly defined
- Enumeration Values are loaded from an xsd file on the server
- Numeric A numeric value is categorised into 'bands' which can be configured here

Each characteristic is identified by a code (for machine identification) and a name (for display in the user interface). The characteristic is associated with a set of possible values, each with their own code and name with the same purpose. It is important that you keep track of the codes assigned to each characteristic, as these are what will need to be output by the calculations in the flow.



Product Selector

The product selector is a flow object that performs two functions:

- Calculate the characteristics and record them against each product
- Use the characteristic values to determine which variants should be selected

The product selector can be located in Flow Designer which can be accessed via:

Administration Menu> Designer Tools > Flow Designer

Select the flow relevant to your solution and locate a Product Selector object.

part Pre-	\$ ⊻	Fast Track	SYSTEM TRUE	0	Application	盦	
ABF	⇔ ∨	Channel	SYSTEM TRUE	0	Application	龠	l
appl	⇔ _	Asset Category 2	SYSTEM TRUE	0	Application	龠	ck
- Veda		Charateristic * Rule *	Asset Category 2	Y	characteristic (built in admin)		ck
DM Value Chec	{ITEM:Asset 1 Category 1 Selector}		calculation		eck		
Ved	* 5		Application	•			
Ved	* [J Asset Category 3	SYSTEM TRUE	v	Application	۵ ۵	cs
	⊕ ⊻]	SYSTEM TRUE	0	Application		cs

Opening the item selected in the calculation will display a screen similar to the example below:

Туре	Function	Output	Value
Database		Text	SELECT CASE WHEN ({ITEM:Asse
MAPPING			
Туре	Database	Ŧ	
Function	None	v	
Output Type	Text	¥	
Convert text	No Conversion	From Date to Months To Uppercase	
{ITEM} A	ND OR Equals -		



This item uses a database query in order to perform case logic, but does not actually extract data from the database. The query when formatted appears as follows:

```
SELECT CASE
WHEN ({ITEM:ASSEt 1 Category} = 'BIKE') THEN 'BIKE'
WHEN ({ITEM:ASSEt 1 Category} = 'VEHICLE') THEN 'VEHICLE'
WHEN ({ITEM:ASSEt 1 Category} = 'MARINE'
OR {ITEM:ASSEt 1 Category} = 'CARAVAN') THEN 'LEISURE'
ELSE 'UNKNOWN'
END
```

END

This query will test if the category of the first asset falls into one of the categories BIKE, VEHICLE, MARINE or CARAVAN, and assigns it the appropriate characteristic value (from BIKE, VEHICLE, LEISURE, UNKNOWN)

The syntax {ITEM:ITEM_NAME} allows the use of the output of another item in the calculation. In this case the Asset Category for the first asset, the image below shows the configuration of this item.

Description Option	s Mapping	Output				
Туре	Function	Output	Value			
XML		Text	securities/security[1]/nm_category			
MAPPING						
Туре	XML •					
Function	None •					
Qualifier	Application	•				
Output Type	Text •					
Convert text	No Conversion From Dat	e to Months To Uppercase				
{ITEM} AND OR Equals -						
securities/security[1]/nm_category						



This item is responsible for extracting the data from the application xml document using an XPATH. The relevant section of the application can be seen below.



The characteristics after calculation are found in the loan product list, shown below. Any characteristics which were not calculated or were assigned an invalid code (according to the list in characteristic management) will not be listed.

_product_not	▲ loan_product						
	Joan_product	= id unique	04477433-9398-46	0-bcfa-da18d77c1ead			
			PRODV				
		O ed product 16					
		() nm product	Personal Loan				
		() no seg product	52				
		() cd variant	1				
		() tx code external	PERSONAL				
		() fg_obsolete	0				
		() am_loan_amount	27000.00				
		() no_interest_rate					
		() no_loan_term	1				
		() cd_loan_term_t YEAR					
		() cd_repayment_f					
		() cd_repayment Principal & amp; Interest					
			() cd_calculation_t	Standard			
		() amount_purpos					
		() custom_field_list					
		() adjustment_list					
		✓ rate_list					
		✓ fee_list					
		calculations	1				
		variation_list					
		charc_list					
			▲ charc (3)	0	0	0	
				() id_charc	() cd_value	() tx_name	
				1 RATE_PLAN	PLAN_A	Plan A	
				2 ASSET_MANUFACTURED	NEW	New	
		0		3 PRIVATE_SALE	FALSE	False	
		() cd_instalment	Advance				



Appendix A – Document History

Version History

Version	Date	Name	Description
1.0	June 2017	Luke Croft	Established Document
1.1	May 2018	Fiona Maher	Transferred to illion template
1.2	March 2019	Chloe Jerram	Updated product name