Structure Parameters & Dynamic Expressions

Structure Parameters

Structure Parameters are structural variables / features users can pre-define to be used in structuring the custom waterfall.

For example: Overcollateralization, YSOC, Date Trigger, Default Level Threshold...etc. can all be set to specific values or vectors.

PORTFOLIO		BONDS		SCENARIOS			REPORTS	
BONDS								Save Changes
Tranches		Category (Optional)	Name	Unit		Value		Help Description
Settings		oc	OC Target	Percentage		3	Ø	This is the OC level targeted over t
Structure Parameters	8	YSOC	Vector	Amount (\$)		1:10000; 2:5000; 3:300	0 8	This adjusts the Collat Balance 🥜
	8	Triggers	Date	Date		2018-01-11		1
Dynamic Expressions	8	Triggers	Default Level Thresho	ld Percentage		2	C	1
	8			Amount (\$)			Ø	1
Expenses				Percentage				
Reserves				Date				
				Number				
Waterfall Table								
Resec Table								

Users can also apply **Category** labels to these parameters for better organization, and write **Descriptions** for easier identification.

Structure Parameters

Once the parameters are set up, they will be stored under **\$structure** in the **Library** of the **Dynamic Expression Editor.** They can be recalled and referenced when writing expressions for **Limits** and **Conditions** in the **Waterfall Table**.

Dynamic Exp	oression Editor					×	
Name Help Description	Default Trigger Category (Optional) Triggers Sticky Condition Type Boolean This condition checks whether the current default amount exceeds threshold, after which the deal will pay sequential. This condition checks whether the current default amount exceeds threshold, after which the deal will pay sequential. This condition checks whether the current default amount exceeds threshold, after which the deal will pay sequential. This condition checks whether the current default amount exceeds threshold, after which the deal will pay sequential.						The Dynamic Expression Editor pops up when you
Dynamic Exp	pression						click
1 \$(bui)	lt-in.loans_cf.default) >	\$(structure.Trigg	ers.Default Level	Threshold)			Add New Condition Add New Limit
		Users can by their pro	also filter the eset categorie	parameters s			in the Waterfall Table and Resec Table
Library	Select library \$built-in \$dynamic \$structure	Help for Defa	ult Level Threshold	Valida	te Ciear		
Category S default	Select category	\$					
percentage percentage date Date amount Ve	e OC Target e Default Level Threshold ector		Descript will be d	ions entered for th isplayed in this are	e parameters a		
				Car	ncel Save & Close		

Dynamic Expressions

Dynamic Expressions are used to create limits and conditions when structuring the waterfall. They are dynamic formulas composed of **Structure Parameters**, and other built-in parameters in the Library. A **Dynamic Expression** can even be used to compose another Dynamic Expression.

These expressions calculate various thresholds or triggers (e.g. limits for Reserve Release, Target OC, conditions for redemption...etc.) based on a user defined definition (calculation). Like **Structure Parameters**, **Dynamic Expressions** can also be set-up and saved for use in the Waterfall Table.

BONDS	۲						O Dynamic Expression
Tranches			Category (Optional)	Nama	Everession	Turne	Halo Description
Settings	12.0	•	Redemotion Variables	Available Eurods	SUM(\$/huilt-in loans_cf_total) \$/hui	Float	The funds available to pay down the balanc
56111.85	E COP		Convential Trigger	Cumulative Default Event	\$/dunamic Sequential Trigger Cum	Boolean	This evaluates to true when a cumulative de
Structure Parameters			Sequential Trigger	Cumulative Default Event	staynamic.sequencial mgger.com	Doolean	This leads course date a defeat automative de
		8	Sequential Trigger	Cumulative Default Percentage	\$(built-in.loans_cf.cumulative_def	Float	This is the cumulative default expressed as
Dynamic Expressions		8	Redemption Variables	Full Reserve Release	\$(built-in.reserve.Reserve 1.curren	Float	Release the Full Reserve to pay down notes
Expenses		8	Redemption Variables	Mandatory Redemption	AND(\$dynamic.38682ca61181430	Boolean	This condition evaluates true when a mand
		8	Sequential Trigger	No Cumulative Default Event	NOT(\$(dynamic.Sequential Trigger	Boolean	This evaluates to true when the current cu
Reserves		8	Principal Payment	OC Required Amount	\$(built-in.tranche.A.current_balan	Float	OC Required Amount subject to YSOC adjus
		8	Principal Payments	OC Required Amount st Floor	MAX(\$(dynamic.Principal Payment	Float	OC required amount subject to floor
Waterfall Table	8	8	Redemption Variables	Optional or Mandatory Redempti	OR(\$(dynamic.Redemption Variabl	Boolean	Mandatory or Optional Redemption
Resec Table		8	Principal Payment	Principal Allocation \$ Amount	\$(structure.Principal Payment.Prin	Float	This is the \$ amount of cash that flows thro
		8	Redemption Variables	Redemption Obligations	SUM(\$(built-in.expense.Fee 1.expe	Float	These are the obligations that must be paid
	8	Û	Reserves	Reserve Release	\$(built-in.reserve.Reserve 1.release)	Float	Reserve Release, limit
		1	Principal Payment	YSOC Adjusted Balance	\$(built-in.loans_cf.collat_balance_e	Float	This is the Collateral Balance less the YSOC
		8					

Dynamic Expressions

To set up a new **Dynamic Expression**, click on **Oynamic Expression** corner of the page.



in thin upper right

- 1. Name the expression
- 2. (Optional) Label Category
- Select Type: Float – Outcome is a number (typically used in Limits) Boolean – Outcome is "True" or "False" (typically used in Conditions)
- 4. (Optional) Write a description (helps in defining it)
- 5. Write the expression using parameters in the Library.
- 6. Validate the expression
- 7. Save & Close

You can now recall the saved expression from the **\$dynamic library** when adding a new **Limit** or **Condition** in the **Waterfall Table**