Sensitivity Class

Creates and validates Sensitivity objects.

# Libraries/Classes calling on Sensitivity Class

Validate/Read

SensitivitySummary Class

# Internal Library/Class dependencies

BCN Class

# External Library Dependencies

None

# Functions

init()

validateSensitivityObject()

# Pseudo Code

Optional inputs are in italics

Begin Pseudocode

init()

Standard class constructor method. Create object based off of list of inputs developed from json string. Variable Table below

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variable** | **VarName** | **Type** |  | **Required** |
| Global Variable Boolean | globalVarBool | Bool |  | X |
| Alternative ID | altID | Int |  | X (if globalVarBool false) |
| BCN ID | bcnID | String |  | X (if globalVarBool false) |
| Variable | varName | String | {initialOcc,bcnLife, recurValue, recurEndDate, valuePerQ, quant, quantValue} | X |
| Change Type | diffType | String | “Percent” change or “Gross” change | X |
| Change Value | diffVal | Float | If diffType is “Percent” then value is percentage, if diffType is “Gross” then value is a gross value | X |

End init

Define validateSensitivityObject(objectList)

All variables are required, so validation will simply require checking:

All variables exist and are of the correct type

bcnID references an existing BCN object

Note “Field” in this case may only be one of the options in the list in the table above and is **NOT** a list of strings

Note any valid ranges for the variable being change carry over (i.e. initialOcc can’t occur after recurEndDate, etc.)

End validateSensitivityObject