



# Structured Finance User Guide

**Version 16.0**

April 2018 — First edition

This document describes how to install and use the Structured Finance module.

| Revision date | Comments                        |
|---------------|---------------------------------|
| April 2018    | First edition for version 16.0. |

## Contents

|                   |  |           |
|-------------------|--|-----------|
| <b>Section 1.</b> | <b>Structured Finance Module.....</b>                      | <b>4</b>  |
| <b>Section 2.</b> | <b>General Installation .....</b>                          | <b>5</b>  |
| 2.1               | Module Installation.....                                   | 5         |
| 2.2               | Database Synchronization .....                             | 5         |
| 2.3               | Demo Data Set.....   | 5         |
| <b>Section 3.</b> | <b>Setup .....</b>   | <b>6</b>  |
| 3.1               | Running the Intex Loader and Intex Engine.....             | 6         |
| 3.2               | Domain Values .....  | 6         |
| 3.2.1             | Deal Sector (ABSDdeal.extendedType) .....                  | 6         |
| 3.2.2             | Deal Type (ABSDdeal.subtype) .....                         | 7         |
| 3.2.3             | Cash Flow Tests (ABSDdealTest.CASHFLOW).....               | 7         |
| 3.2.4             | Compliance Tests (ABSDdealTest.COMPLIANCE) .....           | 7         |
| 3.2.5             | Eligibility Tests (ABSDdealTest.ELIGIBILITY) .....         | 8         |
| 3.2.6             | Structured Finance Deal Test Type (ABSDdealTest.type)..... | 9         |
| 3.2.7             | ABS Collateral Type (BondAssetBacked.collateralType) ..... | 9         |
| 3.2.8             | Setting Missing Domain Names and Values.....               | 9         |
| <b>Section 4.</b> | <b>Setting Intex Mapping Values .....</b>                  | <b>11</b> |
| 4.1               | Value Name .....   | 11        |
| 4.2               | Calendar .....   | 11        |
| 4.3               | Collateral Loan Attributes.....                            | 12        |
| 4.4               | Collateral Statistic.....                                  | 15        |
| 4.5               | Columns .....  | 18        |
| 4.6               | Columns.ASSETBACK_TYPE.....                                | 18        |
| 4.7               | Columns.COLLATERAL_TYPE.....                               | 19        |
| 4.8               | Columns.DEAL_CATEGORY.....                                 | 24        |
| 4.9               | Columns.TRANCHE_TYPE .....                                 | 25        |
| 4.10              | Legal Entity .....   | 29        |
| 4.11              | ResetIndex .....   | 32        |
| 4.12              | Seniority .....  | 32        |
| 4.13              | TestName .....   | 35        |
| 4.14              | TestSubType .....  | 36        |
| 4.15              | TestType.....  | 36        |
| 4.16              | Defining Products.....                                     | 36        |
| <b>Section 5.</b> | <b>Importing Structured Finance Deals from Intex .....</b> | <b>41</b> |
| 5.1               | Using the Intex Loader .....                               | 41        |
| <b>Section 6.</b> | <b>Structured Finance Deal Product Content .....</b>       | <b>43</b> |
| 6.1               | Deal Summary .....   | 43        |
| 6.2               | Collateral Summary.....                                    | 45        |
| 6.3               | Tranche Summary.....                                       | 45        |
| 6.4               | Collateral Groups .....                                    | 45        |

|                   |  |           |
|-------------------|--|-----------|
| 6.5               | Legal Entities.....                                    | 46        |
| 6.6               | Cash Flow Tests.....                                   | 46        |
| 6.7               | Compliance Tests.....                                  | 47        |
| 6.8               | Collateral Detail .....                                | 47        |
| <b>Section 7.</b> | <b>Structured Finance Deal Product Functions.....</b>  | <b>49</b> |
| 7.1               | Configuration Templates .....                          | 49        |
| 7.2               | Time Series and As of Date .....                       | 49        |
| 7.3               | Menu Choices .....                                     | 49        |
| <b>Section 8.</b> | <b>ARM Bonds.....</b>                                  | <b>51</b> |
| 8.1               | ARM Attributes .....                                   | 51        |
| 8.2               | ARM Bonds Pricing .....                                | 51        |
| 8.2.1             | Pricing Environment Settings .....                     | 51        |
| 8.2.2             | Quotes.....  | 52        |
| 8.2.3             | Curves.....  | 52        |
| <b>Section 9.</b> | <b>Appendices.....</b>                                 | <b>53</b> |
| 9.1               | Appendix 1 – Deal Summary Fields .....                 | 53        |
| 9.2               | Appendix 2 – Collateral Summary Fields .....           | 54        |
| 9.3               | Appendix 3 – Tranche Summary Fields .....              | 55        |
| 9.4               | Appendix 4 – Collateral Groups Fields.....             | 64        |
| 9.5               | Appendix 5 – Legal Entities Fields .....               | 65        |
| 9.6               | Appendix 6 – Cash Flow and Compliance Test Fields..... | 67        |
| 9.7               | Appendix 7 – Collateral Detail Fields.....             | 68        |

## Section 1. Structured Finance Module

Calypso has the ability to handle cash structured finance bonds (ABS, RMBS, CMBS, CBO and CLO) entered manually, imported from Bloomberg or integrated with Intex. The Intex Module allows one to trade and process structured finance bonds on a bond-only informational level (see the Intex Integration User Guide). The Structured Finance Module integrates with the Intex Module to add the benefit of being able to view and query the entire deal structure that wraps around the individual bonds (or tranches).

Bonds entered either manually or with the use of Bloomberg have the disadvantage of static amortization schedules and cash flows. These amortization schedules and cash flows may be updated from time to time; however, they are not dynamically calculated by providing market data and run-time parameters such as prepayment speeds and default assumptions. Intex is an integrated solution whereby amortization schedules and cash flows are calculated on-the-fly with the addition of assumptions regarding forward interest rates, prepayment rates and default information.

The structured finance security market is characterized by a voluminous amount of static and dynamic data to define the securities and to derive cash flows for the securities. Intex Solutions, Inc. is a major supplier of security data and subroutines that may be employed to both define the securities and to derive cash flows under user-supplied assumptions. Intex has amassed a database of over 20,000 structured deals and has been a leader in this field since starting business in 1985. Intex's coverage includes the following asset classes:

- Residential Collateralized Mortgage Obligations (U.S. Agency and Non-Agency CMO)
- Residential Mortgage Backed Securities (RMBS)
- Asset Backed Securities (ABS)
- Commercial Mortgage Backed Securities (CMBS)
- U.S. Agency Pass-through Securities (Ginnie Mae, Freddie Mac and Fannie Mae MBS)
- Collateralized Debt Obligations (CDOs – a term used generically to describe CBOs, CLOs and other structures)
- Collateralized Bond Obligations (CBOs)
- Collateralized Loan Obligations (CLOs)

Please refer to the Intex Integration User Guide for more information on the Intex Database and the functions provided by the integration.

The main advantage that the Structured Finance Module offers is an extensive build out of the data model to encompass the additional attributes of the deal from which the bond is issued. These data model enhancements are viewable in the Structured Finance Deal Product and include:

- Descriptive attributes of the underlying collateral, historical prepayments and losses of the underlying collateral.
- The granularity of the collateral information available drills down to the individual collateral level for many structures (e.g. corporate loans, corporate bonds, mortgage loans, etc.).
- The legal entities that are party to a deal and thus are sources of potential credit exposure. This would include issuers, trustees, collateral managers, servicers, originators and guarantors, etc.
- The results of various monthly cash flow tests, compliance tests and cash flow triggers that the rating agencies impose on the deal structures.

## Section 2. General Installation

### 2.1 Module Installation

---

The Structured Finance module is installed as part of the Calypso Installer when you select the "Structured Finance" optional module.

Please refer to the Calypso Installation Guide for complete details.

This module has the most beneficial use when it is used in conjunction with the Intex module; however, it may also be installed without the Intex module. With the Intex module, the Structured Finance capability will add the ability to view and query overall deal information for the structures modeled in the Intex database. If the Intex module is not installed, the Structured Finance capability may also be used with user data entry of the deal information.

If the Intex module is to be installed as well, the directions for installing Intex may be referenced in the Intex Integration User Guide.

### 2.2 Database Synchronization

---

The Calypso Installation Guide also covers the synchronization of the database.

When you run Execute SQL as part of your installation, the Structured Finance files will be already loaded, and any required upgrade process will be performed.

### 2.3 Demo Data Set

---

The Database Synchronization creates the following data elements in your database:

- All of the Domain Names and Values that are included in the Demo Data and are described in *Section 3.2 – Domain Values*.
- The additional `intex_values` and `intex_bond_map` table that are required to store the configurable Intex-to-Calypso mapping values and would not have been included in the Intex Module Database Synchronization. These would include the following: Collateral Loan Attributes, Collateral Statistics, Test Name, TestSubType and TestType.

## Section 3. Setup

### 3.1 Running the Intex Loader and Intex Engine

If the Structured Finance module is used in conjunction with the Intex module, it will be necessary to start the Intex Engine and to use the Intex Loader to import and update Structured Finance Deals.

The Intex engine is started as part of the Engine server using "startEngineserver.bat" on Windows platforms, or "startEngineserver.bat" on \*nix platforms.

The Intex engine is used to compute forecasted cash flows for ABS bonds using the pricer `PricerIntexBondAssetBacked`.

The Intex Loader can be started from Calypso Navigator, provided you add it to the menu using Main Entry Customizer – action `intex.IntexLoaderWindow`.

The Intex Loader may be used to import securities from the Intex Database either for the first time or for update purposes. During the import process in the Intex Loader, Intex data items are mapped to Calypso data items. The value mapping that is configurable from Intex values to Calypso values is described below.

### 3.2 Domain Values

If the Structured Finance module is being used with Intex, then there are numerous Domain Values that must be present for the Intex module to function correctly. The Intex-specific Domain Values are referenced in the Intex User Guide. The Domain Values documented here are specific to the Structured Finance module. All of these Domain Value Names should be included in your database as a result of doing the Structured Finance Database Synchronization.

The Domain Values may be viewed and added via [Calypso Navigator > Configuration > System > Domain Values...](#)

#### 3.2.1 Deal Sector (ABSDeal.extendedType)

Deal Sector is defined by `ABSDeal.extendedType`. Deal Sector is designed to be a sub-categorization of Deal Type (see next section). `ABSDeal.extendedType` populates the Deal Sector drop-down on the Intex Mapping Window so that Intex data may be mapped into this Calypso field. Deal Sector is displayed on the ABS Tab of the `BondAssetBacked` Product. Deal Sector is also viewable on the Deal Summary Panel of the Structured Finance Deal.

It is expected that the user will configure the Domain Values as needed; however, the Demo Data supplies the following Domain Values:

- ABS
- Aircraft
- Auto Leases
- Auto Loans
- Credit Cards
- Equipment Leases
- Floor Plan
- Franchise
- High Yield Bonds
- High Yield Bonds and Loans
- High Yield Loans
- Home Equity
- Hybrid
- Investment Grade Bonds
- Large Commercial
- Manufactured Housing
- Marine
- Mixed Properties
- Motorcycle

- Multifamily
- Prime
- Private Label US Agency CMO
- Private Label Whole Loans
- RV
- Receivables
- Small Business
- Student Loans
- Subprime
- US Agency CMO
- US Agency Pass Through

### 3.2.2 Deal Type (ABSDeal.subtype)

Deal Type is defined by ABSDeal.subtype. ABSDeal.subtype populates the Deal Type drop-down on the Intex Mapping Window so that Intex data may be mapped into this Calypso field. Deal Type is displayed on the ABS Tab of the BondAssetBacked Product. Deal Type is also viewable on the Deal Summary Panel of the Structured Finance Deal.

It is expected that the user will configure the Domain Values as needed; however, the Demo Data supplies the following Domain Values:

- ABS
- CBO
- CDO
- CLO
- CMBS
- RMBS

### 3.2.3 Cash Flow Tests (ABSDealTest.CASHFLOW)

The Domain Value, ABSDealTest.CASHFLOW defines the Intex Cash Flow tests that may be performed on the Structured Finance Deal. This Domain Value is populated via the Database Synchronization Demo Data.

The Intex documentation for these Cash Flow Tests is as follows:

| Cash Flow Test Domain Value | Intex Description                  |
|-----------------------------|------------------------------------|
| AC                          | Additional Coverage Test           |
| CUMULATIVE_LOSS             | Cumulative Loss Test               |
| CURRENT_LOSS                | Current Loss Test                  |
| DELINQUENCY                 | Delinquency Test                   |
| EOD                         | Event of Default                   |
| FG_DRAW                     | FG Draw Test                       |
| IC                          | Interest Coverage Test             |
| OC                          | Over Collateralization Test        |
| SPREAD                      | Excess Interest Test               |
| UNKNOWN                     | Unspecified Cash Flow Trigger Type |

### 3.2.4 Compliance Tests (ABSDealTest.COMPLIANCE)

The Domain Value, ABSDealTest.COMPLIANCE defines the Intex Cash Flow tests that may be performed on the Structured Finance Deal. This Domain Value is populated via the Database Synchronization Demo Data.

The Intex documentation for these Compliance Tests is as follows:

| <b>Compliance Test Value</b> | <b>Intex Description</b>   |
|------------------------------|--|
| AVG_LIFE                     | Weighted Average Life of Assets Test   |
| AVG_LIFE_NP                  | Weighted Average Life of Assets Test with non-performing assets included                   |
| FT_AVG_DEBT_RATING           | Fitch's Average Debt Rating Test   |
| FT_AVG_DEBT_RATING_NP        | Fitch's Average Debt Rating Test with non-performing assets included                       |
| MD_AVG_DEBT_RATING           | Moody's Average Debt Rating Test   |
| MD_AVG_DEBT_RATING_NP        | Moody's Average Debt Rating Test with non-performing assets included                       |
| MD_DIVERSITY                 | Moody's Diversity Test   |
| MD_DIVERSITY_NP              | Moody's Diversity Test with non-performing assets included                                 |
| SP_MIN_AVG_REC_RATE          | Standard and Poor's Minimum Average Recovery Rate Test                                     |
| SP_MIN_AVG_REC_RATE_NP       | Standard and Poor's Minimum Average Recovery Rate Test with non-performing assets included |
| UNKNOWN                      | An unspecified test  |

### 3.2.5 Eligibility Tests (ABSDealTest.ELIGIBILITY)

The Domain Value, ABSDealTest.ELIGIBILITY defines the Intex Cash Flow tests that may be performed on the Structured Finance Deal. This Domain Value is populated via the Database Synchronization Demo Data.

The Intex documentation for these Eligibility Tests is as follows:

| <b>Eligibility Test Value</b> | <b>Intex Description</b>   |
|-------------------------------|--|
| AVG_LIFE                      | Weighted Average Life of Assets Test                                     |
| AVG_LIFE_NP                   | Weighted Average Life of Assets Test with non-performing assets included |
| FT_AVG_DEBT_RATING            | Fitch's Average Debt Rating Test   |
| FT_AVG_DEBT_RATING_NP         | Fitch's Average Debt Rating Test with non-performing assets included     |
| MD_AVG_DEBT_RATING            | Moody's Average Debt Rating Test   |
| MD_AVG_DEBT_RATING_NP         | Moody's Average Debt Rating Test with non-performing assets included     |



| Eligibility Test Value | Intex Description  |
|------------------------|--|
| MD_DIVERSITY           | Moody's Diversity Test   |
| MD_DIVERSITY_NP        | Moody's Diversity Test with non-performing assets included                                 |
| SP_MIN_AVG_REC_RATE    | Standard and Poor's Minimum Average Recovery Rate Test                                     |
| SP_MIN_AVG_REC_RATE_NP | Standard and Poor's Minimum Average Recovery Rate Test with non-performing assets included |
| UNKNOWN                | An unspecified test  |

### 3.2.6 Structured Finance Deal Test Type (ABSDealTest.type)

The Domain Name, ABSDealTest.type defines the three different test types. The Demo Data supplies the necessary Domain Values:

- CASHFLOW
- COMPLIANCE
- ELIGIBILITY

### 3.2.7 ABS Collateral Type (BondAssetBacked.collateralType)

The Domain Name, BondAssetBacked.collateralType provides the list of collateral types that may be selected in the "Collateral" field in the ABS panel of the Bond Definition window. These Domain Values are included as part of the core Calypso installation, however when the Structured Finance module is installed, the Demo Data supplies the following Domain Value:

- Agency ARM Pool

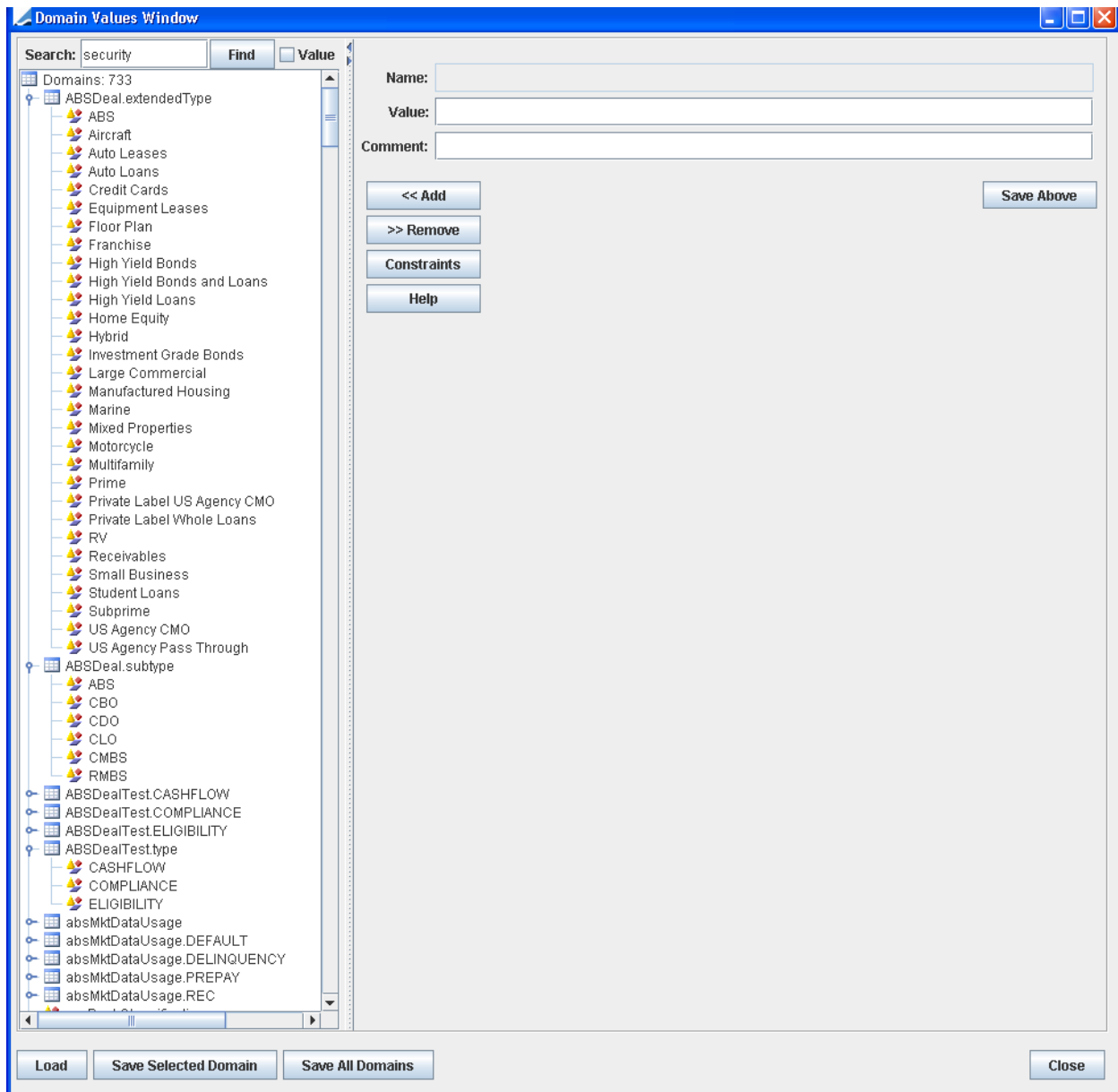
See [ARM Bonds](#) for details on ARM bonds.

### 3.2.8 Setting Missing Domain Names and Values

If any of the above-mentioned Domain Names are missing or the user wishes to configure Domain Values, one may simply follow this example for the ABSDealTest.type Domain Name and its Domain Values, "CASHFLOW", "COMPLIANCE" and "ELIGIBILITY":

- Navigate to Domain Values via: [Calypso Navigator](#) > [Configuration](#) > [System](#) > [Domain Values...](#)
- **Add** the Domain Name "ABSDealTest.type". Click **Save All**.
- Then click **Load**.
- In the Domain Name "ABSDealTest.type", add the values "CASHFLOW", "COMPLIANCE" and "ELIGIBILITY". Click **Save All**.

An illustration of the Domain Names with some of the Domain Values revealed is as follows:



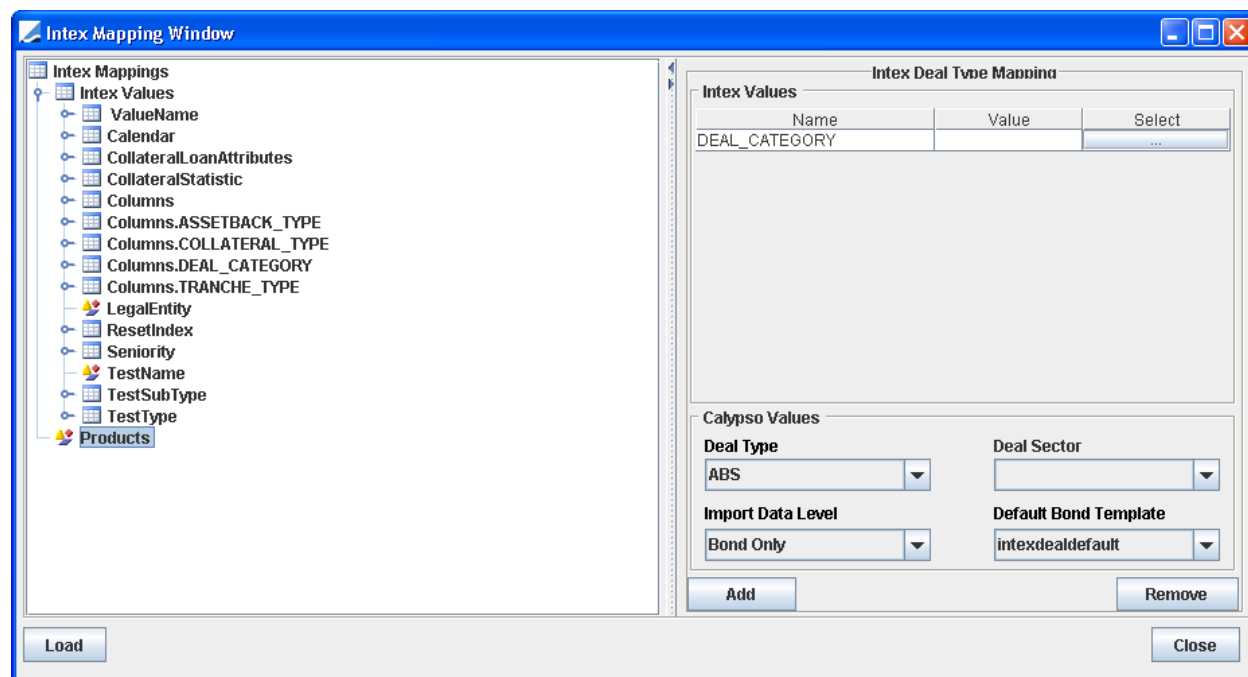
## Section 4. Setting Intex Mapping Values

The Intex Loader is used to map Intex values to Calypso values. To accomplish the mapping, the relevant Domain Values must already have been created. The mapping process is accessed via:

[Intex Loader Window > Utilities > Intex Mapping Setup](#)

Following this navigation will reveal the window pictured below. The two main mapping sections are Intex Values and Products. Many of the Intex mappings will be necessary for Intex without Structured Finance and there are a few mappings that are specific to Structured Finance. Rather than forcing the reader to flip back and forth between the Intex User Guide and the Structured Finance User Guide, this *Section 4 – Setting Intex Mapping Values* is duplicated in its entirety in both guides. For clarity, the mapping values that are only available in the Structured Finance module are labeled as such.

The mapping values are defined in alphabetical order, as they are listed in the Intex Mapping Window.



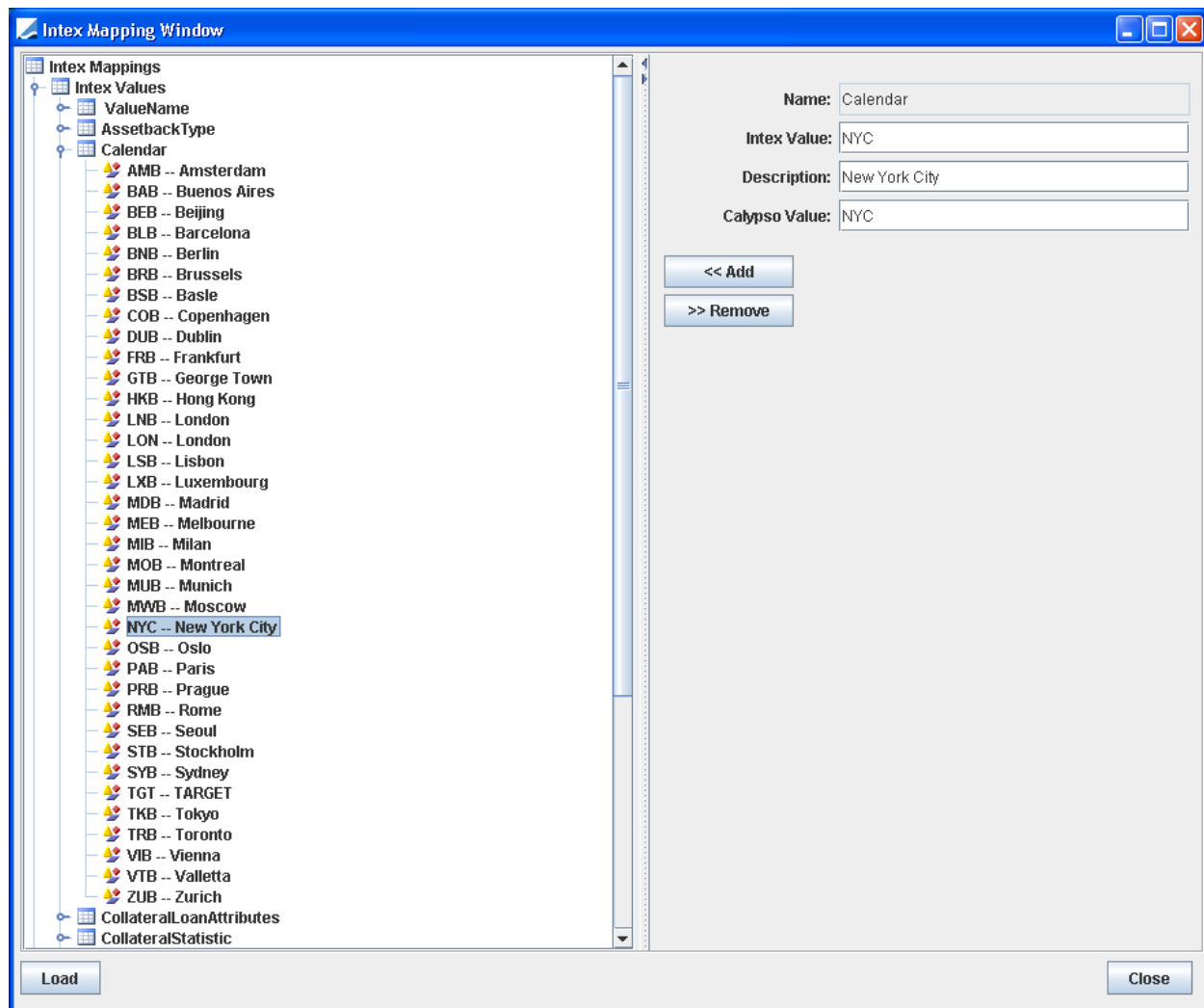
### 4.1 Value Name

A top level listing of all the mapping categories for Intex. The list is identical to the mapping categories in the window above.

### 4.2 Calendar

The Intex Calendar values have to be mapped to Calypso Calendar values. As this is very standard, the relationship is frequently a mapping of identical values as in the New York City example shown below.

Choose: [Intex Loader > Utilities > Intex Mapping Setup](#)



### 4.3 Collateral Loan Attributes

This is an Intex Value Mapping that is specific only to the Structured Finance Module.

These are the values that Intex assigns to the individual mortgage loan collateral. The codes along with their translations are as follows:

- DC0 -- Other/Unknown
- DC1 -- None
- DC10 -- Mortgage Verification Only
- DC11 -- Reduced
- DC12 -- Underwriting Doc Incomplete
- DC13 -- Program Violation
- DC14 -- EZ/Simplified
- DC15 -- Alternative
- DC16 -- Streamline
- DC2 -- Full
- DC3 -- Income, Asset & Mortgage Verification

DC4 -- Low/Limited  
DC5 -- Income & Mortgage Verification  
DC6 -- Income & Asset Verification  
DC7 -- Asset & Mortgage Verification  
DC8 -- Income Verification Only  
DC9 -- Asset Verification Only  
IC0 -- Other/Unknown  
IC1 -- No Mortgage Insurance  
IC10 -- Financial Guaranty  
IC11 -- Foremost  
IC12 -- GE  
IC13 -- GMAC  
IC14 -- Home Guaranty  
IC15 -- Insured Credit Serv.  
IC16 -- Integon  
IC17 -- Investor's Mtg Ins  
IC18 -- Kodak  
IC19 -- Liberty  
IC2 -- Alaska Housing  
IC20 -- Maryland Housing  
IC21 -- MGIC  
IC22 -- Mortgage Guaranty Ins  
IC23 -- NYC Rehabilitation  
IC24 -- PMI Mortgage Ins  
IC25 -- Policy Holders Benefits  
IC26 -- Republic Mortgage Ins  
IC27 -- Ticor  
IC28 -- Triad Guaranty Ins  
IC29 -- United Guaranty  
IC3 -- Amerin  
IC30 -- US Mortgage Ins  
IC31 -- VA  
IC32 -- Verex Assurance  
IC33 -- Vermont Home Mortgage  
IC34 -- Wisconsin Mortgage Assurance  
IC4 -- California Housing  
IC5 -- Cavalier  
IC6 -- Commonwealth  
IC7 -- Dupont  
IC8 -- FGIC  
IC9 -- FHA

LP0 -- Other/Unknown  
LP1 -- Purchase  
LP2 -- Refi-Cash Out  
LP3 -- Refi-No Cash Out  
LP4 -- Second Mortgage  
LP5 -- Refi-Unknown Cash  
LP6 -- Construction  
LP7 -- Home Improvement  
LP8 -- Purchase or Construction  
LP9 -- Remortgage  
LT0 -- Other/Unknown  
LT1 -- Conventional  
LT10 -- Non Conforming  
LT11 -- Subprime  
LT12 -- Contract for Deed  
LT13 -- Alt-A  
LT14 -- FNMA  
LT15 -- HELOC  
LT16 -- Conforming  
LT17 -- Jumbo  
LT18 -- Commercial  
LT2 -- FHA  
LT3 -- VA  
LT4 -- Conventional with PMI  
LT5 -- Government (Unknown)  
LT6 -- Affordable Housing Initiative  
LT7 -- Consumer - Motorized  
LT8 -- Consumer - Non-motorized  
LT9 -- Multifamily  
OC0 -- Other/Unknown  
OC1 -- Primary (Owner Occupied)  
OC2 -- Secondary (Owner Occupied)  
OC3 -- Investor (Non-owner Occupied)  
OC4 -- Buy to Let  
OC5 -- Business  
PT0 -- Other/Unknown  
PT1 -- Single Family Residence  
PT10 -- Bungalow  
PT11 -- Detached  
PT12 -- Semi-Detached  
PT13 -- Terraced

PT2 -- Condominium  
 PT3 -- Co-op  
 PT4 -- 2-4 Units  
 PT5 -- Townhouse  
 PT6 -- PUD  
 PT7 -- 5+ Units  
 PT8 -- Commercial  
 PT9 -- Manufactured Housing

## 4.4 Collateral Statistic

---

This is an Intex Value Mapping that is specific only to the Structured Finance Module.

These are the values that Intex assigns to either summary collateral statistics or to individual collateral instruments. The codes along with their translations are as follows:

AbsSummaryInfo.1MO\_ACCUM\_NET\_LOSS -- collat realizedloss%.

AbsSummaryInfo.1MO\_ACCUM\_NET\_LOSS\_RATE -- Sum of realized loss(\$)/ original collateral bal(\$) in percentage.

AbsSummaryInfo.1MO\_BANKRUPT\_RATE -- Loans in bankruptcy, %.

AbsSummaryInfo.1MO\_COLLAT\_BAL -- Current collateral balance, \$.

AbsSummaryInfo.1MO\_CPR -- Annual prepayment rate, % CPR.

AbsSummaryInfo.1MO\_DELINQ\_30\_PLUS -- Number of loans 30 plus days delinquent.

AbsSummaryInfo.1MO\_DELINQ\_60\_PLUS -- Number of loans 60 plus days delinquent.

AbsSummaryInfo.1MO\_DELINQ\_90\_PLUS -- Number of loans 90 plus days delinquent.

AbsSummaryInfo.1MO\_FORECLOSURE\_RATE -- %Loan balance in foreclosure.

AbsSummaryInfo.1MO\_REO\_RATE -- Loans in real estate offering, %.

AbsSummaryInfo.1MO\_WAC -- Gross collateral coupon, %.

AbsSummaryInfo.1MO\_WAM -- Weighted average remaining term to stated maturity, months.

AbsSummaryInfo.3MO\_CPR -- 3 month CPR, %.

AbsSummaryInfo.NUMBER\_OF\_LOANS -- Number of Outstanding Loans.

Current WAS

DSCR

LoanAttr.Asset Doc -- Loan documentation (full, limited, none, etc.).

LoanAttr.Asset Name -- Asset Name.

LoanAttr.Asset Purpose -- Loan purpose (purchase, refinance, cash out.).

LoanAttr.Insurer -- Insurer.

LoanAttr.Lein Position -- Lein Position.

LoanAttr.Loan Type -- Loan Type.

LoanAttr.Modification Code -- Loan Modification Code.

LoanAttr.Occupancy -- Occupancy Status.

LoanAttr.Property Code -- Loan Property type (single-family, PUD, condo, etc.).

LoanAttr.Servicer -- Servicer.

LoanData.APPR\_VALUE -- Appraisal Value.

LoanData.APPR\_VALUE\_ASOF -- Appraisal Value As Of.

LoanData.ASSET\_FREQUENCY -- Pay Frequency.  
LoanData.ASSET\_SUBTYPE -- Asset Subtype.  
LoanData.ASSET\_TYPE -- Asset Type.  
LoanData.BORROW -- Borrower.  
LoanData.CITY -- City.  
LoanData.COUNTRY -- Country.  
LoanData.CUSIP -- CUSIP.  
LoanData.DEBT\_SERVICE -- Debt Service.  
LoanData.DEBT\_SERVICE\_ASOF -- Debt Service As Of.  
LoanData.DEFAULT\_FLAG -- Default Flag.  
LoanData.DSCR -- DSCR.  
LoanData.DSCR\_ASOF -- DSCR As Of.  
LoanData.EMERGING\_MARKET -- Emerging Market.  
LoanData.FICO -- Fico Score.  
LoanData.FIX\_FLT -- Fix or Float.  
LoanData.FUNDED\_STATUS -- Funded Status.  
LoanData.HIRESBDTYP -- Hi-Res Bond Type.  
LoanData.INDUSTRY\_FITCH -- Fitch Industry Code.  
LoanData.INDUSTRY\_MOODY -- Moody's Industry Code.  
LoanData.INDUSTRY\_S&P -- S&P Industry Code.  
LoanData.INTEX\_DEALTYPE -- Intex Deal Type.  
LoanData.ISIN -- ISIN.  
LoanData.ISSUER\_CODE -- Issuer.  
LoanData.LOANX -- LoanX Id.  
LoanData.MATUR\_DATE -- Asset Maturity Date.  
LoanData.NOI -- Net-Operating-Income.  
LoanData.NOI\_ASOF -- As Of Date for Net-Operating-Income.  
LoanData.ORIGINATOR -- Loan Originator.  
LoanData.PAID\_THRU -- Paid-through Date.  
LoanData.PIK -- PIK.  
LoanData.REGION\_MOODY -- RATING: Moody Region.  
LoanData.SPONSOR -- Sponsor.  
LoanData.STREET -- Street Address.  
LoanData.STRUCTURED\_FINANCE -- Structured Finance Security.  
LoanData.SYNTHETIC -- Synthetic.  
LoanData.TENANT1 -- The three largest tenants.  
LoanData.TENANT2 -- The three largest tenants.  
LoanData.TENANT3 -- The three largest tenants.  
LoanData.TIER1FLAG -- Tier 1.  
LoanData.TIER2FLAG -- Tier 2.  
LoanData.UW\_APPR\_VALUE -- Underwritten Appraisal Value.



LoanData.UW\_APPR\_VALUE\_ASOF -- Underwritten Appraisal Value As Of.

LoanData.UW\_NOI -- Underwritten NOI.

LoanData.UW\_NOI\_ASOF -- Underwritten NOI As Of.

LoanStat.Delinquency Status -- Delinquency Status.

PoolInfo.12MO\_CPR -- historical 1 year prepay rate in CPR units.

PoolInfo.12MO\_PSA -- historical 1 year prepay rate in PSA units.

PoolInfo.1MO\_PSA -- historical 1 month prepay rate in PSA units.

PoolInfo.3MO\_PSA -- historical 3 month prepay rate in PSA units.

PoolInfo.6MO\_CPR -- historical 6 month prepay rate in CPR units.

PoolInfo.6MO\_PSA -- historical 6 month prepay rate in PSA units.

PoolInfo.ARM: Gross Margin/Spread -- ARM: Gross Margin/Spread.

PoolInfo.ARM: Index -- ARM: Index.

PoolInfo.ARM: Life Cap -- ARM: Life Cap.

PoolInfo.ARM: Life Floor -- ARM: Life Floor.

PoolInfo.ARM: Payment Cap -- ARM: Payment Cap.

PoolInfo.ARM: Payment Floor -- ARM: Payment Floor.

PoolInfo.ARM: Rate Formula -- ARM: Rate Formula.

PoolInfo.ARM: Rate Reset Period -- ARM: Rate Reset Period.

PoolInfo.Amort Type -- Amorization rule.

PoolInfo.Asset Age -- The number of months that have elapsed since the pool/loan was issued.

PoolInfo.Balloon -- Number of balloon months.

PoolInfo.Cashflow Stratification -- Collateral cashflow type.

PoolInfo.Coupon -- Coupon.

PoolInfo.Current Amort Term -- The Pools' weighted-average remaining term, in months.

PoolInfo.Current Balance -- Current Balance.

PoolInfo.Current Factor -- Current Factor.

PoolInfo.Current LTV -- Pools' current LTV, in %.

PoolInfo.Day Count -- Day Count.

PoolInfo.Gross Coupon -- Gross Coupon.

PoolInfo.Group Number -- Group Number.

PoolInfo.Is Balloon -- Is Balloon.

PoolInfo.Issue Date -- Asset Issue Date.

PoolInfo.Item Number -- Item Number.

PoolInfo.LIFE\_CPR -- historical lifetime prepay rate in CPR units.

PoolInfo.LIFE\_PSA -- historical lifetime prepay rate in PSA units.

PoolInfo.MSA -- MSA.

PoolInfo.Maturity Date -- Asset Maturity Date.

PoolInfo.Net Coupon -- Annual pass-through interest rate, in percent.

PoolInfo.Orig LTV -- Orig LTV.

PoolInfo.Orig Term -- Orig Term.

PoolInfo.Original Balance -- Original Balance.

PoolInfo.Original IO -- Original IO.

PoolInfo.PSA 1M -- historical 1 month prepay rate in PSA units.

PoolInfo.PSA 3M -- historical 3 month prepay rate in PSA units.

PoolInfo.PSA 6M -- historical 6 month prepay rate in PSA units.

PoolInfo.Property Type Stratification -- Property type.

PoolInfo.Region -- MSA Region.

PoolInfo.Rem Term -- Rem Term.

PoolInfo.Remaining IO -- Remaining IO.

PoolInfo.State -- State.

PoolInfo.State Stratification -- This field holds the pools' location in state/province.

PoolInfo.Unique Name -- Unique Name.

PoolInfo.Zip Code -- Zip Code.

Source

## 4.5 Columns

Lists the columns that are viewable in the Intex Loader and able to be mapped. These are:

ASSETBACK\_TYPE  
 COLLATERAL\_TYPE  
 DEAL\_CATEGORY  
 TRANCHE\_TYPE

## 4.6 Columns.ASSETBACK\_TYPE

Within the Intex subroutines, the Intex database is classified into three major classes:

- CMOs - They are either Agency Issued with Agency Collateral or Private Label Issued with Agency Collateral deals backed by residential mortgages. The agencies are Fannie Mae, Freddie Mac or Ginnie Mae.
- Whole Loans – This term has become a misnomer. The structured finance market has many examples of terms being invented and used for an original purpose that may evolve or blur over time. Some market participants may use the original meanings of these terms and other market participants may use different interpretations. It can be argued that Intex uses one of these variants for how it classifies “Whole Loans” at the database level. In Intex jargon, any deal that is not backed by agency collateral is considered to be a “Whole Loan” deal.
- Pass-throughs (or “MBSPOOLS”) – These are securities that are issued by Fannie Mae, Freddie Mac or Ginnie Mae where the cash flows are not “structured” with rules. The cash flows of the underlying mortgage simply “pass-through” the structure to the bond holders.

Intex provides data describing the underlying collateral types for all Whole Loan deals. We have provided a means to map the Intex descriptor values for these collateral types to configurable Calypso values. As of this writing, the available Intex values that are contained in the Intex data item, “icmo\_assetback\_type” are documented by Intex to be the following:

| Intex Values             | Description             |
|--------------------------|-------------------------|
| ICMOASSETBACK_LOAN       | Normal whole loans      |
| ICMOASSETBACK_CREDITCARD | Credit card receivables |
| ICMOASSETBACK_AUTOLOAN   | Car loans               |
| ICMOASSETBACK_HOMEEQUITY | Home equity loans       |

| <b>Intex Values</b>             | <b>Description</b>               |
|---------------------------------|----------------------------------|
| ICMOASSETBACK_MANUHOUSE         | Manufactured housing loans       |
| ICMOASSETBACK_FLOORPLAN         | Floorplans                       |
| ICMOASSETBACK_EQUIPMENT         | Equipment loans                  |
| ICMOASSETBACK_STUDENTLOANS      | Education loans                  |
| ICMOASSETBACK_RECEIVABLES       | Receivables                      |
| ICMOASSETBACK_COMMERCIAL        | Commercial mortgages (CMBS)      |
| ICMOASSETBACK_AGRICULTURE       | Farmer Mac loans                 |
| ICMOASSETBACK_FRANCHISE         | Franchise loans                  |
| ICMOASSETBACK_RV                | Recreation vehicle loans         |
| ICMOASSETBACK_MARINE            | Marine loans                     |
| ICMOASSETBACK_MOTORCYCLE        | Motorcycle loans                 |
| ICMOASSETBACK_AUTOLEASE         | Auto leases                      |
| ICMOASSETBACK_AIRPLANE          | Airplane loans                   |
| ICMOASSETBACK_CLO               | Collateralized loan obligations  |
| ICMOASSETBACK_HEALTHRECEIVABLES | Healthcare receivables           |
| ICMOASSETBACK_CLN               | Credit linked notes              |
| ICMOASSETBACK_CDO               | Collateralized debt obligations  |
| ICMOASSETBACK_SMALLBUSINESS     | Small business loans             |
| ICMOASSETBACK_CONSUMER          | Consumer loans                   |
| ICMOASSETBACK_TAXLIEN           | Tax liens                        |
| ICMOASSETBACK_PROJECT           | Project loans                    |
| ICMOASSETBACK_TIMESHARE         | Timeshare loans                  |
| ICMOASSETBACK_STCD              | Single Tranche Credit Derivative |

## 4.7 Columns.COLLATERAL\_TYPE

These are the collateral categories that Intex uses to describe the overall deal collateral. These collateral types are stored in the Intex field, ICMOADDLINFO\_COLLAT\_TYPE.

| <b>Intex Values</b> | <b>Applicable Group</b> | <b>Description</b> |
|---------------------|-------------------------|--------------------|
| ABS                 | CDO                     |                    |

| Intex Values       | Applicable Group | Description   |
|--------------------|------------------|---|
| ABS/REIT           | CDO              |   |
| ALT_A              | Whole Loan, HEQ  | Alt-A and Alt-A-Minus loans. Alt-A loans are loans made to borrowers with good credit, but with non-conforming underwriting ratios, limited documentation, or other characteristics which don't meet the standards for prime loans. Alt-A pools may have lower FICOs (700-730), higher LTVs (> 75), and higher percentages of loans with limited or no documentation (30-50%) than typical prime jumbo pool. Alt-A-minus loans fall between Alt-A and subprime. Alt-A-minus pools may have lower FICOs (660-700), higher LTVs (> 80), and higher percentages of loans with limited or no documentation (>50%) than typical Alt-A pools. |
| ARREARAGE          | Whole Loan, HEQ  | Previously delinquent loans restructured with an arrearage component. Newer arrearage deals are put on the HE database but a handful of older deals originally put on the WL database in the late 1990s are still classified as WL.   |
| Agency Multifamily | CMBS             |   |
| CDO Securities     | CDO              |   |
| CDO Securities/ABS | CDO              |   |
| CDO^2              | CDO              |   |
| CMBS               | CDO              |   |
| CMBS/Loans         | CDO              |   |
| CMBS/Loans/REIT    | CDO              |   |
| CMBS/REIT          | CDO              |   |
| CRE                | CDO              |   |
| Conduit            | CMBS             |   |
| Development        | CMBS             |   |
| Emerging Market    | CDO              |   |
| Enterprise         | Franchise        |   |
| Equipment          | Franchise        |   |
| Fee Simple         | Franchise        |   |
| Fee Simple - 2nd   | Franchise        |   |
| Fusion             | CMBS             |   |
| Ground Lease       | Franchise        |   |
| HELOC              | Whole Loan, HEQ  | Home Equity Lines of Credit. These are normally kept on the HE database but some deals with mixed HE/WL collateral types exist.   |
| HIGH LTV           | HEQ              | First or second liens with combined LTVs greater than 100% of property value (typically 115%-125%).   |

| <b>Intex Values</b>  | <b>Applicable Group</b> | <b>Description</b>  |
|--|-------------------------|---|
| High Yield   | CDO                     |   |
| High Yield/CDO Securities  | CDO                     |   |
| High Yield/Emerging Market                                       | CDO                     |   |
| High Yield/Investment Grade                                      | CDO                     |   |
| High-Grade Structured Finance                                    | CDO                     |   |
| High-Yield Bonds   | CDO                     |   |
| High-Yield Loans   | CDO                     |   |
| Investment Grade   | CDO                     |   |
| Investment-Grade Bonds   | CDO                     |   |
| Kickout  | CMBS                    |   |
| LOT LOAN   | Whole Loan              | Loans made on unimproved land   |
| Large Loan   | CMBS                    |   |
| Lease-Backed   | CMBS                    |   |
| Leasehold  | Franchise               |   |
| Loans to Microfinance Institutions                               | CDO                     |   |
| Long-Term Floating Rate  | CMBS                    |   |
| MIXED USE  | HEQ                     | Loans for mixed use buildings where the commercial/small business portion is small relative to the residential portion. |
| Market Value   | CDO                     |   |
| Mezzanine  | CDO                     |   |
| Mezzanine Structured Finance                                     | CDO                     |   |
| Middle Market  | CDO                     |   |
| Military Housing   | CMBS                    |   |
| Mixed  | CDO, CMBS               |   |
| Mixed - Conduit And Re-Securitization Of One Conduit Deal        | CMBS                    |   |
| Mixed - Fusion And Re-Securitization Of One Single-Borrower Deal | CMBS                    |   |
| Mixed - Seasoned Loan And Re-Securitization Of Three             | CMBS                    |   |

| Intex Values  | Applicable Group           | Description  |
|---|----------------------------|--|
| Mixed - Short-Term Floating Rate And Re-Securitization Of Two | CMBS                       |  |
| NA  | Whole Loan, Franchise, HEQ | Other/Unable to determine.   |
| NIM   | Whole Loan, HEQ            | Net Interest Margin, typically a resecuritization of residuals from other deals  |
| NON-CONFORMING  |                            |  |
| NON-PERFORMING  | HEQ                        | Sub-Performing and Non-Performing mortgages.   |
| PRIME   | Whole Loan                 | Loans made to borrowers with good credit that generally meet the lender's strictest underwriting criteria. Intex may also classify some limited documentation pools made to very high-quality borrowers (typically with weighted-average pool FICOs of 740+) as Prime instead of ALT_A.  |
| Project Finance Loans   | CDO                        |  |
| REIT  | CDO                        |  |
| REPERFORMING  | Whole Loan                 | Loans insured by the FHA/VA that were previously delinquent  |
| REREMIC   | Whole Loan                 | Resecuritization of other securities of multiple collateral types. Note: resecuritizations will normally be tagged with the collateral type of the underlying securities, the "reremic" collat type will only be assigned to deals backed by multiple collateral types.  |
| RMBS  | CDO                        |  |
| Re-Securitization - Agency Multifamily                        | CMBS                       |  |
| Re-Securitization - B-Piece                                   | CMBS                       |  |
| Re-Securitization - Conduit                                   | CMBS                       |  |
| Re-Securitization - Large Loan                                | CMBS                       |  |
| Re-Securitization - Mixed                                     | CMBS                       |  |
| Re-Securitization - Seasoned Loan                             | CMBS                       |  |
| Re-Securitization - Swap                                      | CMBS                       |  |
| Royalty   | Franchise                  |  |
| SBA ASSISTANCE  | HEQ                        | SBA Assistance loans.  |
| SCRATCH & DENT  | Whole Loan, HEQ            | May include many different loan types in one deal, including delinquent loans, re-performing loans, repurchases, loans with document or other deficiencies, and seasoned loans. Loans may either be acquired from various unaffiliated sources of the Seller, or may be loans originated by an affiliate of the Seller which do not conform to that Seller's standard guidelines for securitization. These are normally kept on the HE database but some deals with mixed HE/WL collateral types exist |

| Intex Values                            | Applicable Group | Description   |
|---|------------------|---|
| SECOND LIEN                             | Whole Loan, HEQ  | Second lien mortgages. These are normally kept on the HE database but some deals with mixed HE/WL collateral types exist.   |
| SLA/PPA                                 | CDO              |   |
| SMALL-BALANCE COMMERCIAL MORTGAGE       | HEQ, CMBS        | Small-balance commercial mortgages  |
| SUBPRIME                                | Whole Loan, HEQ  | Loans to borrowers with poor credit, typically have weighted-average pool FICO's of 620 or less. These are normally kept on the HE database but some deals with mixed HE/WL collateral types exist. |
| SYNTHETIC: INDEX                        | HEQ, CMBS        | Synthetic indices such as the ABX index.  |
| Seasoned Loan                           | CMBS             |   |
| Short-Term Floating Rate                | CMBS             |   |
| Short-Term Floating Rate Deals          |                  |   |
| Single Borrower - Lease-Backed          | CMBS             |   |
| Single Borrower - Multiple Properties   | CMBS             |   |
| Single Borrower - Single Property       | CMBS             |   |
| Single-Borrower Deals                   |                  |   |
| Structured Finance                      | CDO              |   |
| Structured Finance/REIT                 | CDO              |   |
| Synthetic: ABS                          | CDO              |   |
| Synthetic: ABS/RMBS                     | CDO              |   |
| Synthetic: CDO Securities               | CDO              |   |
| Synthetic: CMBS                         | CDO              |   |
| Synthetic: CMBS Commercial Pool - Mixed | CMBS             |   |
| Synthetic: CMBS/REIT                    | CDO              |   |
| Synthetic: Conduit                      | CMBS             |   |
| Synthetic: Derivative Contracts         | CDO              |   |
| Synthetic: Emerging Market              | CDO              |   |
| Synthetic: High Yield                   | CDO              |   |
| Synthetic: Investment Grade             | CDO              |   |

| Intex Values                                     | Applicable Group | Description   |
|--|------------------|---|
| Synthetic: Mezzanine                             | CDO              |   |
| Synthetic: Mixed                                 | CDO              |   |
| Synthetic: REIT                                  | CDO              |   |
| Synthetic: RMBS                                  | CDO              |   |
| Synthetic: RMBS/CDO                              | CDO              |   |
| Synthetic: Revenue-Backed                        | CMBS             |   |
| Synthetic: Single Borrower - Multiple Properties | CMBS             |   |
| Synthetic: Small-Balance Commercial Mortgage     | CMBS             |   |
| Synthetic: Structured Finance                    | CDO              |   |
| Synthetic: Trust-Preferred                       | CDO              |   |
| TIMESHARE  | HEQ              | Loans made on timeshare properties.   |
| Tax-Exempt Trust-Preferred                       | CDO              |   |
| Tax-Exempt                                       | CDO              |   |
| Unsecured REIT Debt                              | CMBS             |   |
| VENDEE   | Whole Loan       | A "vendee loan" is a sale by the United States Department of Veterans Affairs on the credit terms of a residential property acquired following the foreclosure of a mortgage that was guaranteed by the United States Department of Veterans Affairs. |

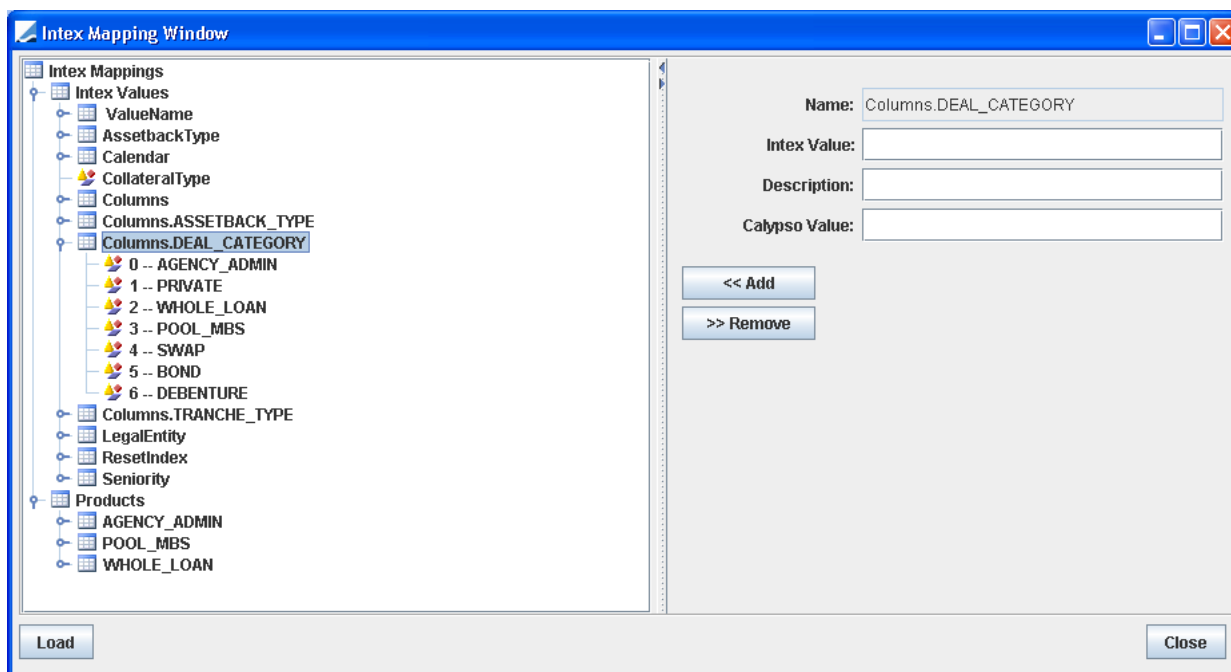
## 4.8 Columns.DEAL\_CATEGORY

DEAL\_CATEGORY (icmo\_deal\_category), as defined by Intex, may be one of the following seven choices:

- 0- AGENCY\_ADMIN
- 1- PRIVATE
- 2- WHOLE\_LOAN
- 3- POOL\_MBS
- 4- SWAP
- 5- BOND
- 6- DEBENTURE

These are defined in Columns.DEAL\_CATEGORY as seen below:





In actuality, the only selections from this list that have relevance with ABS and MBS are AGENCY\_ADMIN, PRIVATE, WHOLE\_LOAN and POOL\_MBS. Calypso does not support SWAP, BOND nor DEBENTURE.

## 4.9 Columns.TRANCHE\_TYPE

TRANCHE\_TYPE (icmo\_tranche\_types) is defined by Intex as an array which concatenates the different applicable types for Principal Types, Interest Types, Residual Types, Whole Loan Class Types, and Agency Callable Types. As of this writing, the available Intex Tranche Types that are employed to describe the tranche characteristics are the following:

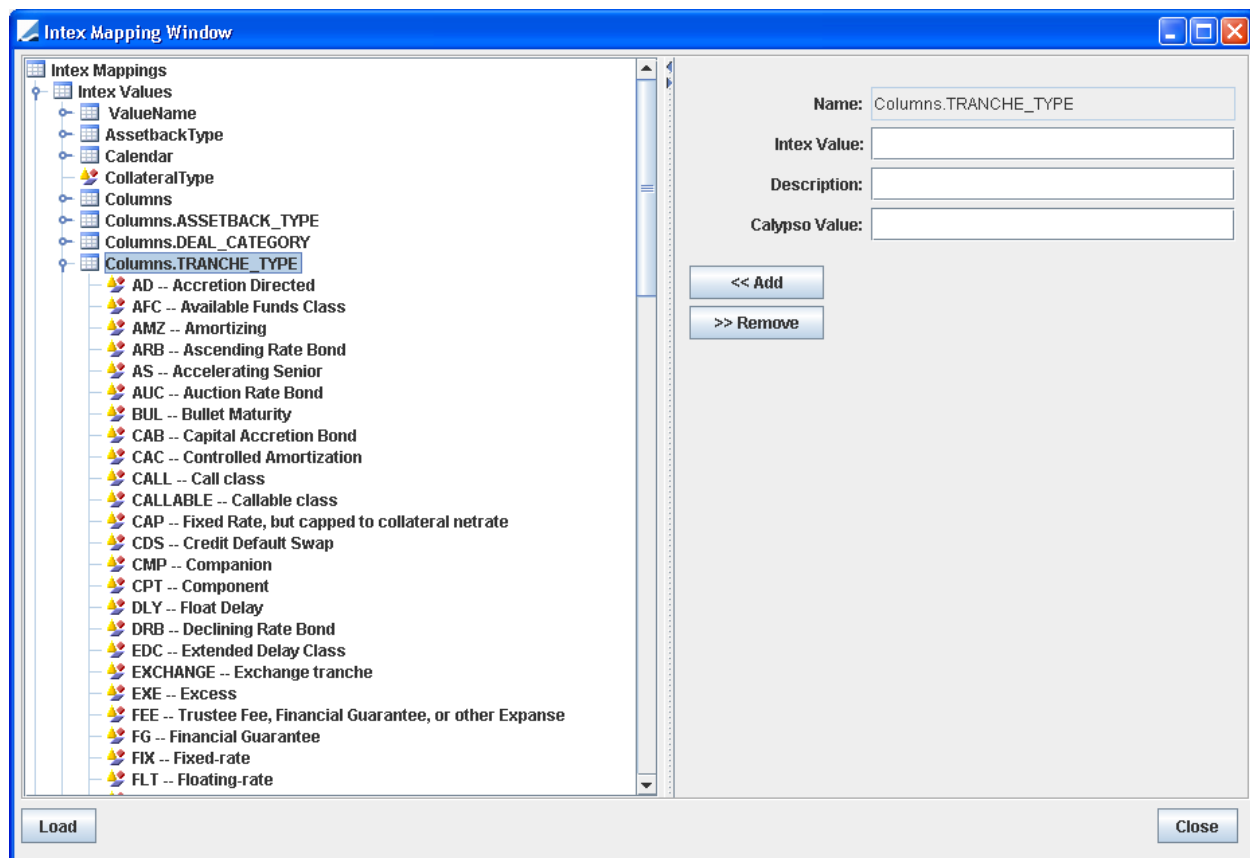
| Intex Types                         | Description                    |
|-------------------------------------|--------------------------------|
| <i><b>Intex Principal Types</b></i> |                                |
| <i><b>AD</b></i>                    | Accretion Directed             |
| <i><b>AFC</b></i>                   | Available Funds Class          |
| <i><b>AMZ</b></i>                   | Amortizing                     |
| <i><b>AS</b></i>                    | Accelerating Senior            |
| <i><b>BUL</b></i>                   | Bullet Maturity                |
| <i><b>CAC</b></i>                   | Controlled Amortization        |
| <i><b>CMP</b></i>                   | Companion                      |
| <i><b>CPT</b></i>                   | Component                      |
| <i><b>EDC</b></i>                   | Extended Delay Class           |
| <i><b>LIQ</b></i>                   | Liquid Asset                   |
| <i><b>MEGA</b></i>                  | Agency Mega, Giant or Platinum |

| <b>Intex Types</b>                 | <b>Description</b>                           |
|------------------------------------|--|
| <i><b>NAS</b></i>                  | Non-Accelerating Senior                      |
| <i><b>NIM</b></i>                  | Net Interest Margin                          |
| <i><b>NSJ</b></i>                  | Non-Sticky Jump                              |
| <i><b>NTL</b></i>                  | Notional                                     |
| <i><b>PAC or PAC1 ... PAC4</b></i> | Planned Amortization                         |
| <i><b>PT</b></i>                   | Pass-Through                                 |
| <i><b>RTL</b></i>                  | Retail                                       |
| <i><b>SCH or SCH1 ... SCH4</b></i> | Scheduled Payments                           |
| <i><b>SEG</b></i>                  | Segment                                      |
| <i><b>SEQ</b></i>                  | Sequential Pay                               |
| <i><b>SJ</b></i>                   | Sticky Jump                                  |
| <i><b>SP</b></i>                   | Single Payment                               |
| <i><b>SPP</b></i>                  | Shifting Payment Percentage                  |
| <i><b>STP</b></i>                  | Pro  |
| <i><b>SUP</b></i>                  | Support                                      |
| <i><b>TAC or TAC1 ... TAC4</b></i> | Targeted Amortization                        |
| <i><b>XAC</b></i>                  | Index Allocation                             |
| <b><i>Intex Interest Types</i></b> |  |
| <i><b>AFC</b></i>                  | Available Funds Class                        |
| <i><b>ARB</b></i>                  | Ascending Rate Bond                          |
| <i><b>CAB</b></i>                  | Capital Accretion Bond                       |
| <i><b>CAP</b></i>                  | Fixed rate, but capped to collateral netrate |
| <i><b>DLY</b></i>                  | Float Delay                                  |
| <i><b>DRB</b></i>                  | Declining Rate Bond                          |
| <i><b>EXE</b></i>                  | Excess                                       |
| <i><b>FIX</b></i>                  | Fixed  |
| <i><b>FLT</b></i>                  | Floating                                     |
| <i><b>IDC</b></i>                  | Index Differential                           |

| <b>Intex Types</b>                 | <b>Description</b>   |
|------------------------------------|--|
| <b>INV</b>                         | Inverse Floating Rate  |
| <b>IO</b>                          | Interest Only  |
| <b>PEN</b>                         | Prepayment Penalty tranche   |
| <b>PO</b>                          | Principal Only   |
| <b>PRT</b>                         | Participating Tranche – receives excess interest   |
| <b>PZ</b>                          | Partial Accrual  |
| <b>SUB</b>                         | Equity tranche. Receives excess interest   |
| <b>W</b>                           | Coupon related to collateral interest rate   |
| <b>WAC</b>                         | Coupon related to collateral interest rate   |
| <b>Z</b>                           | Accrual  |
| <b>Intex Residual Types</b>        |  |
| <b>NPR</b>                         | No-Pay Residual  |
| <b>R</b>                           | Residual   |
| <b>RES</b>                         | Residual   |
| <b>RL</b>                          | Residual   |
| <b>RS</b>                          | Residual   |
| <b>Intex Whole Class Types</b>     |  |
| <b>JUN</b>                         | Junior   |
| <b>MEZ</b>                         | Mezzanine  |
| <b>SPR</b>                         | Super Senior   |
| <b>SEN</b>                         | Senior   |
| <b>WAC_IO</b>                      | Weighted-average Coupon Interest Only  |
| <b>XRS_IO</b>                      | Excess-Ratio Strip Interest Only   |
| <b>XRS_PO</b>                      | Excess-Ratio Strip Principal Only  |
| <b>Intex Agency Callable Types</b> |  |
| <b>CALLABLE</b>                    | With respect to a callable deal (FHL and GNM convention), a class of callable certificates or callable pass-through certificates representing the beneficial ownership of specified contributing assets, subject to optional redemption by a related call class. |

| <b>Intex Types</b>              | <b>Description</b>  |
|---------------------------------|---|
| <b><i>CALL</i></b>              | With respect to a callable deal (FHL and GNM convention), a class of certificates representing the right to direct the agency to redeem a related callable class and to acquire the contributing assets underlying such callable class.                       |
| <b><i>REDEEMABLE</i></b>        | With respect to a redeemable deal (FNM convention), a class of redeemable certificates representing the beneficial ownership of specified contributing assets, subject to optional redemption by a related redemption class.                                  |
| <b><i>REDEMPTION</i></b>        | With respect to a redeemable deal (FNM convention), a class of certificates representing the right to direct the agency to redeem a related redeemable class and to acquire the contributing assets underlying such redeemable class.                         |
| <b><i>RDM</i></b>               | With respect to a redeemable deal (FNM convention), a class of redeemable pass-through certificates representing the right to direct the agency to redeem a related redeemable class and to acquire the contributing assets underlying such redeemable class. |
| <b><i>Intex Other Types</i></b> |   |
| <b><i>FEE</i></b>               | Trustee fee, financial guarantee, or other expense  |
| <b><i>FG</i></b>                | Financial Guarantee   |
| <b><i>FND</i></b>               | Reserve Fund  |
| <b><i>NO</i></b>                | Non-Offered   |
| <b><i>OC</i></b>                | Overcollateralization   |
| <b><i>PP</i></b>                | Private Placement   |
| <b><i>RND</i></b>               | Rounding Account  |
| <b><i>RSV</i></b>               | Reserve Fund  |
| <b><i>SC</i></b>                | Structured Collateral   |

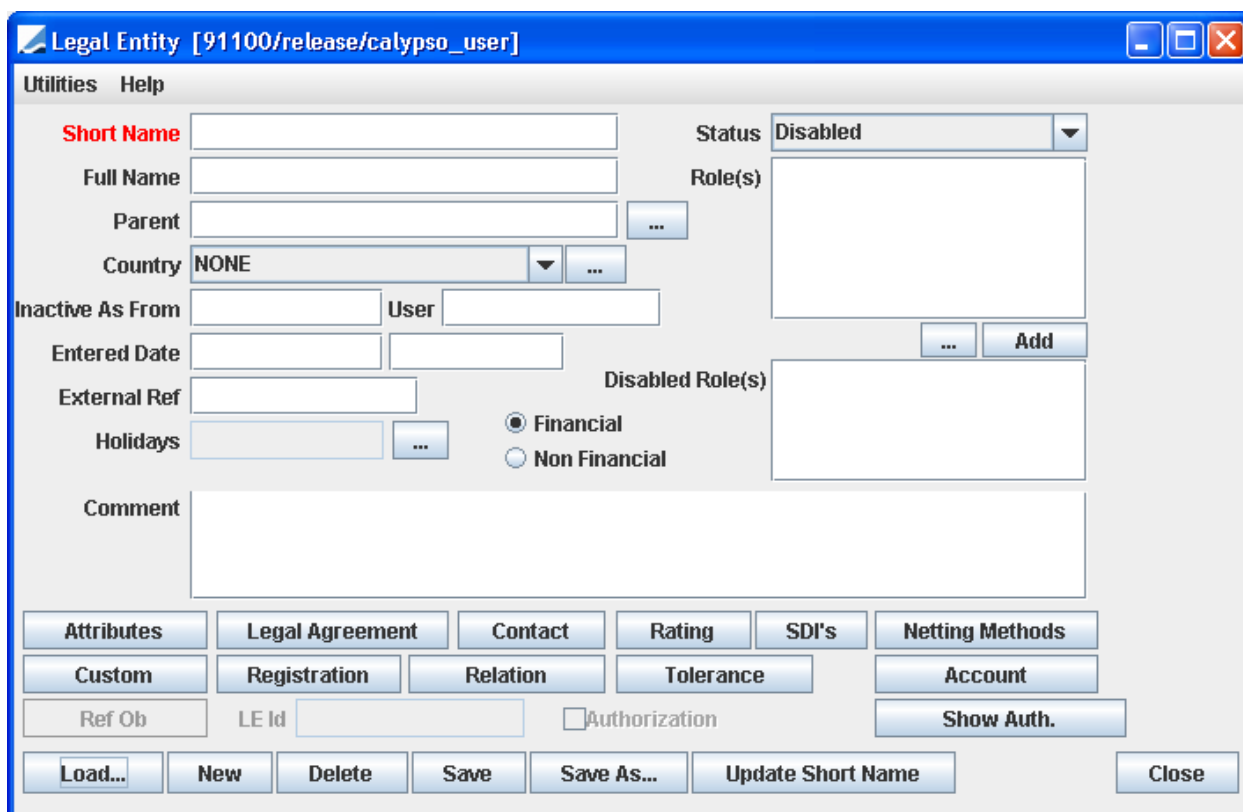
The Tranche Types are defined in Columns.TRANCHE\_TYPE, as partially shown below:



## 4.10 Legal Entity

The Intex Issuers (icmo\_deal\_issuer) have to be mapped to Calypso Legal Entities that have the role of Issuer and that have a status of being "Enabled". One accomplishes this by first creating the Legal Entity in Calypso through the following navigation path:

[Calypso Navigator > Configuration > Legal Data > Entities ...](#)



**Legal Entity [91100/release/calypso\_user]**

Utilities Help

**Short Name**  **Status** Disabled

**Full Name**  **Role(s)**

**Parent**  ...

**Country** NONE ...

**Inactive As From**  **User**  ... **Add**

**Entered Date**

**External Ref**

**Holidays**  ... ☒ **Financial**  
☐ **Non Financial**

**Disabled Role(s)**

**Comment**

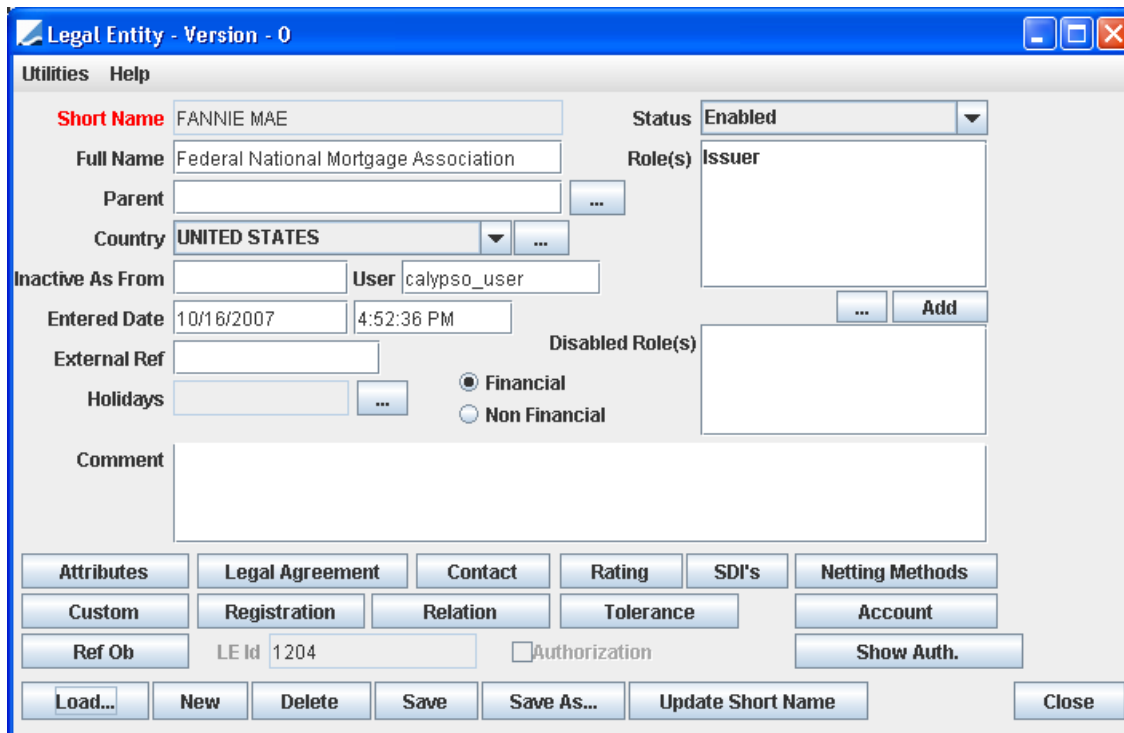
**Attributes** **Legal Agreement** **Contact** **Rating** **SDI's** **Netting Methods**

**Custom** **Registration** **Relation** **Tolerance** **Account**

**Ref Ob** **LE Id**  ☐ **Authorization** **Show Auth.**

**Load...** **New** **Delete** **Save** **Save As...** **Update Short Name** **Close**

One can create new Legal Entities on this window, assign the role of Issuer and change the status in "Enabled". For example, here is Fannie Mae as an Issuer:



**Legal Entity - Version - 0**

Utilities Help

**Short Name** FANNIE MAE **Status** Enabled

**Full Name** Federal National Mortgage Association **Role(s)** Issuer

**Parent**  ...

**Country** UNITED STATES ...

**Inactive As From**  **User** calypso\_user ... **Add**

**Entered Date** 10/16/2007 4:52:36 PM

**External Ref**

**Holidays**  ... ☒ **Financial**  
☐ **Non Financial**

**Disabled Role(s)**

**Comment**

**Attributes** **Legal Agreement** **Contact** **Rating** **SDI's** **Netting Methods**

**Custom** **Registration** **Relation** **Tolerance** **Account**

**Ref Ob** **LE Id** 1204 ☐ **Authorization** **Show Auth.**

**Load...** **New** **Delete** **Save** **Save As...** **Update Short Name** **Close**

Alternatively, if you are trying to look up previously created entities, one may use the Load button on this window and obtain a dialog window that allows the entry of the beginning of the Short Name, resulting in a list to choose from:

**Legal Entity Chooser** [91100/release/calypso\_user]

☒ Include Disabled

☒ Multi Selection

**Short Name Like**

f

**Id**

**Full Name Like**

**External Ref Like**

**Role**

ALL

Add Role

Show Child LE

| Legal Entity | LE Full Name                           | Country       | Roles                   |
|--------------|--|---------------|-------------------------|
| FRANKFURT    | Frankfurt Branch                       | GERMANY       | Agent,CounterParty,Proc |
| FWB          | FWB                                    | UNITED STATES | MarketPlace             |
| FANNIE MAE   | Federal National Mortgage Association  | UNITED STATES | Issuer                  |
| FREDDIE MAC  | Federal Home Loan Mortgage Corporation | UNITED STATES | Issuer                  |
| FINNISHGVT   | Finnish Government                     | FINLAND       | Issuer                  |
| FRGVT        | French Government                      | FRANCE        | Issuer                  |

Apply Cancel

After the Legal Entities are established, one sets up the mapping in:

[Intex Loader > Utilities > Intex Mapping Setup](#)

**Intex Mapping Window**

**Intex Mappings**

- Intex Values
  - ValueName
  - AssetbackType
  - Calendar
  - CollateralType
  - Columns
    - Columns.ASSETBACK\_TYPE
    - Columns.DEAL\_CATEGORY
    - Columns.TRANCHE\_TYPE
  - LegalEntity
    - Banc of America Commercial Mortgage -- BofA CMBS
    - FANNIE MAE -- FNMA
    - FREDDIE MAC -- FHLMC
    - Fannie Mae -- FNMA
    - Freddie Mac -- FHLMC
    - GINNIE MAE -- GNMA
    - Ginnie Mae -- GNMA
    - Wells Fargo Mortgage Backed Securities Trust -- Wells Fargo MBS
  - ResetIndex
  - Seniority
- Products
  - AGENCY\_ADMIN
  - POOL\_MBS
  - WHOLE\_LOAN

**Name:** LegalEntity

**Intex Value:** Fannie Mae

**Description:** FNMA

**Calypso Value:** FANNIE MAE

<< Add

>> Remove

Load Close

Note that the Intex mapping is presently case sensitive and that Intex does store the agencies in both mixed case and upper case, so there are two mappings in this example that both associate to the Calypso, FANNIE MAE.

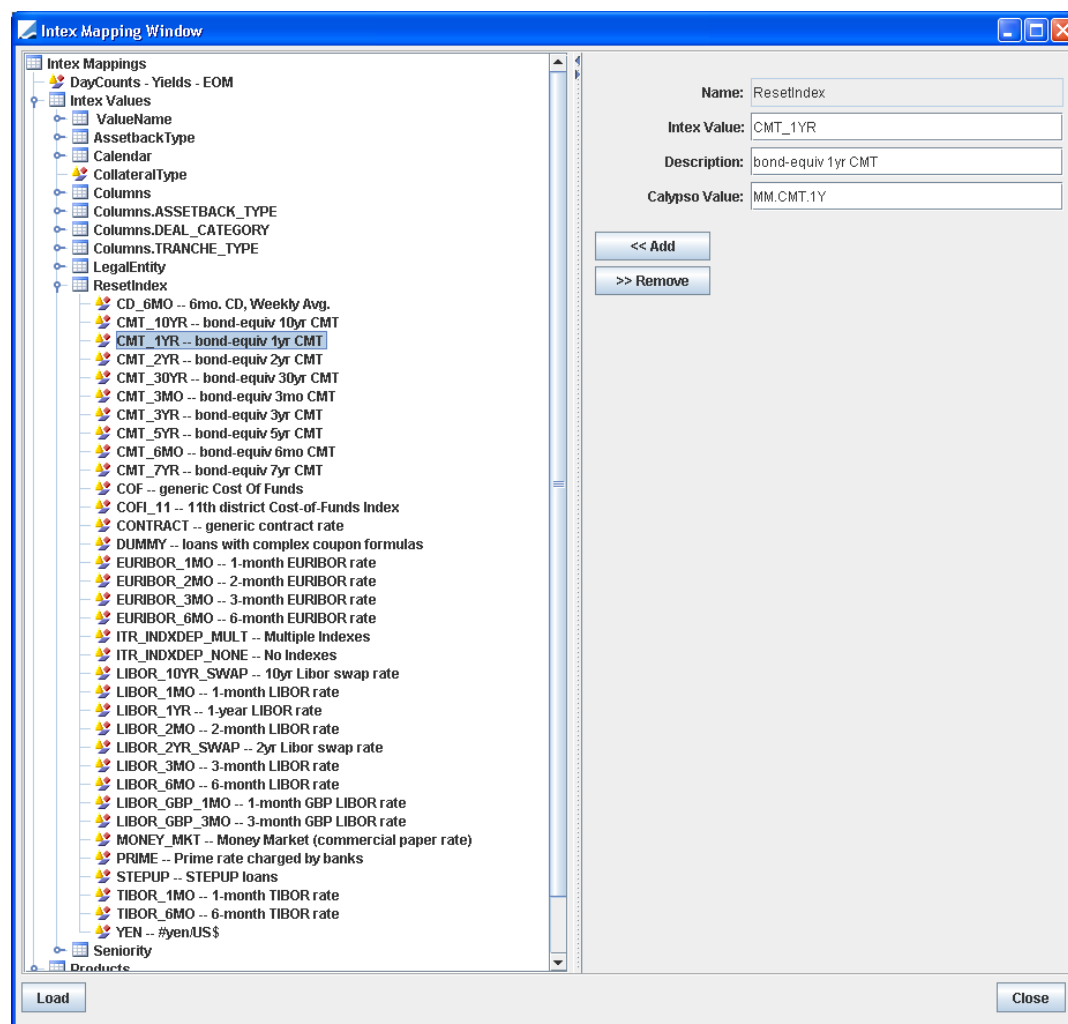
It is not always necessary to set up a Legal Entity as previously described if one just wants to fetch a bond for analysis purposes, etc. This is because there is actually a hierarchy in associating an Issuer with a Legal Entity. The hierarchy is as follows:

1. If a mapping exists between the Issuer in Intex and a Legal Entity in the Calypso database (as described above), then that will be used first.
2. If no mapping exists, then the loading process searches for an exact match with an existing Legal Entity in Calypso.
3. Finally, if there is no mapping and no match with preexisting Legal Entities, a dummy Legal Entity named, "Intex" is used.

## 4.11 ResetIndex

The Intex Reset Indices values have to be mapped to Calypso Indices values. Again, navigation is:

[Intex Loader > Utilities > Intex Mapping Setup](#)



## 4.12 Seniority

It may be desirable to designate the seniority of a bond separately from the Product Sub Type (Bond Type in the Bond Window). This may be accomplished by mapping the Intex Tranche Type to a Product Code called, DebtSeniority. Product Codes may be found in the center of the Bond Tab of the Bond Window.



**Bond Window**

Name: WFM04001-B1 UST Product Id: 2501

Security Code: CUSIP 949814bv8 Load Import from Intex Templates ...

Legal Entities: Convertible Call Schedule Brady Schedule Credit Events ABS CLN Revolver

Bond Coupon Market Special CashFlows Primary Market

Bond Class: BondAssetBacked Bond Type: WL JUN\_FIX

Issue Date: 01/01/2004 Dated Date: 01/01/2004 Maturity Date: 01/01/2034 OD Issuer: WELLS FARGO MBS TRUST Wells Fargo Mortgage Backed Securities ... Country: UNITED STATES

| Issue Price | Currency | Redem. Price | Redem. Curr. | Total Issued | Face Value |
|-------------|----------|--------------|--------------|--------------|------------|
| 100         | USD      | 100          | USD          | 12,553,000   | 1,000      |

Code: CUSIP 949814BV8 Codes ...

Comment: Updated from INTEX data on 12/18/07 5:33:48.781 PM EST Min. Purchase Amt. 0

Set Custom Data Bond Status Issue Credit Ratings ...

Load New Delete Save Save As New Update Name Help Print Close

If one clicks on the "Codes ..." button, the window below is displayed. This contains fields that are defined by the Product Code Window. In this instance, the most used Product Codes would probably be the CUSIP, DebtSeniority, INTEX\_Name and the ISIN.

**Code Window BondWFM04001-B1/0D/Perpetual/5.5%**

| Product Code Name  | Value       |
|--------------------|-------------|
| CUSIP              | 949814BV8   |
| DebtSeniority      | ▼ JUNIOR    |
| INTEX_NAME         | WFM04001,B1 |
| Common             |             |
| DesignatedPriority | ▼           |
| GCFCusip           |             |
| ISIN               |             |
| Local              |             |
| RGA                |             |

Apply Refresh ClearAll Cancel

Please refer to the Fixed Income User Guide for how Product Codes are defined (see Section 2.1 – Specifying Product Code Definitions). The following Product Code Window displays which Product Codes are defined to be available for different Products. The Product Code may be accessed via:

[Calypso Navigator > Configuration > Product > Code.](#)

**Product Code Window**

Name: **DebtSeniority** Type: **string**

☐ Unique ☐ Searchable ☐ Mandatory

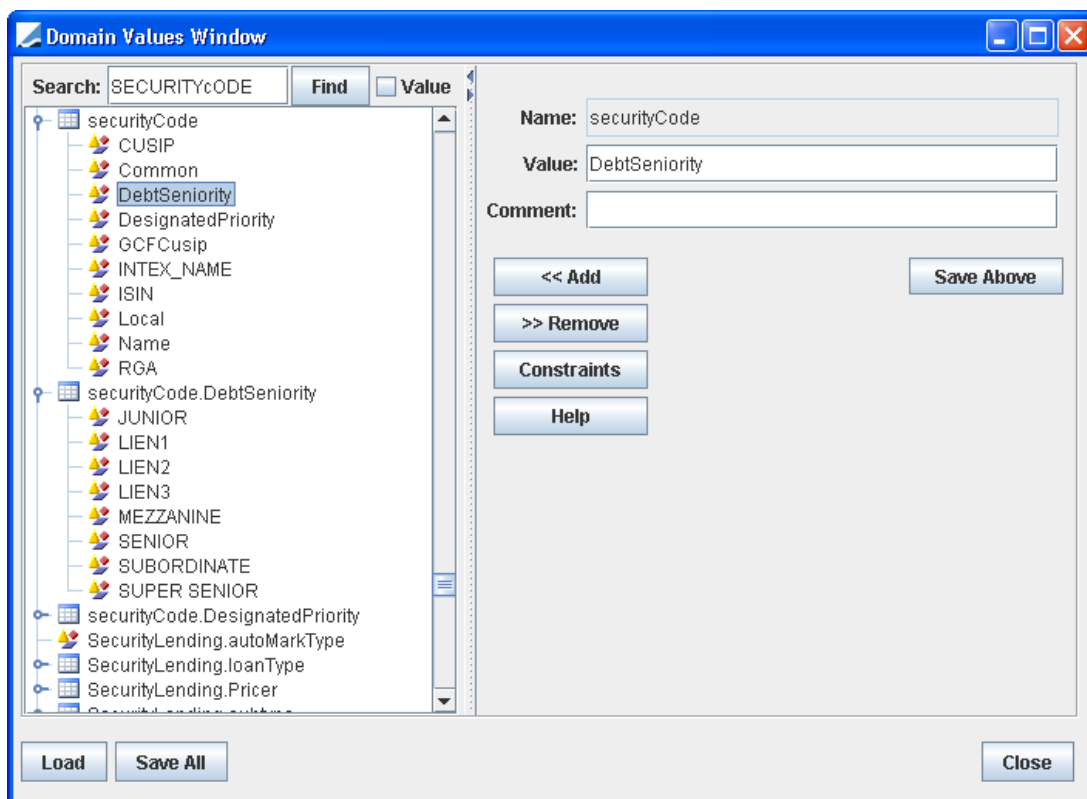
Product: **ALL**

| Name                 | Type   | Unique                              | Searchable                          | Mandatory                | Product               |
|----------------------|--------|-------------------------------------|-------------------------------------|--------------------------|-----------------------|
| COMM_FIXING_HOLS     | string | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | Commodity,CommoditySw |
| COMM_FIX_PRICE_DEC   | string | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | Commodity,CommoditySw |
| COMM_INDEX_DEC       | string | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | Commodity,CommoditySw |
| CUSIP                | string | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ALL                   |
| Common               | string | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ALL                   |
| <b>DebtSeniority</b> | string | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | ALL                   |
| DesignatedPriority   | string | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | ALL                   |
| GCFCusip             | string | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Bond                  |
| ISIN                 | string | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ALL                   |
| Local                | string | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ALL                   |
| RGA                  | string | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | ALL                   |
| INTEX_NAME           | string | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Bond                  |

Buttons: Load, New, Delete, Save, Close

The first step in structuring the mapping of Seniority is to define the DebtSeniority and securityCode.DebtSeniority Domain Values. These are illustrated in the window that follows. One navigates to these Domain Values via:

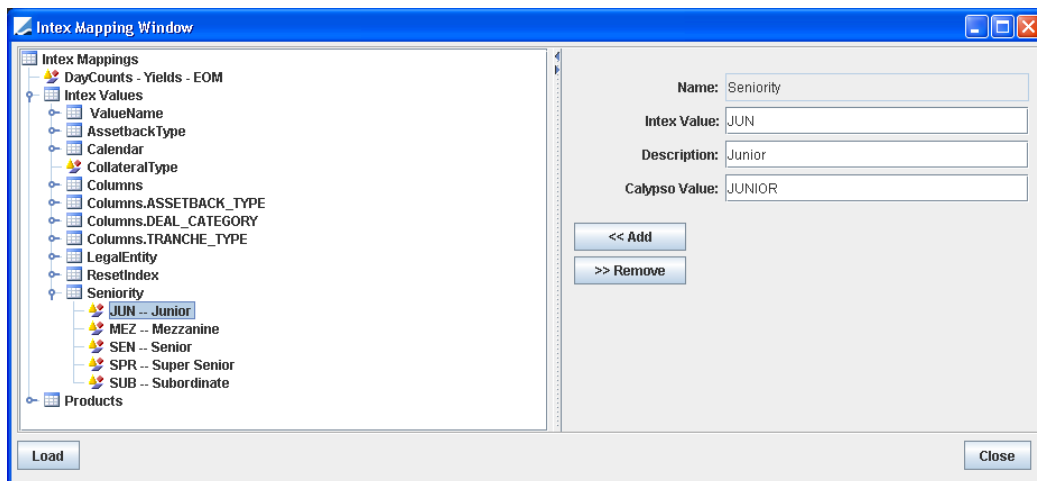
[Calypso Navigator > Configuration > System > Domain Values](#)



The Intex values for the Tranche Type are mapped to the Calypso values for securityCode.DebtSeniority via:

[Intex Loader > Utilities > Intex Mapping Setup](#)

In the following example, we have set up the Seniority values JUN, MEZ, SEN, SPR and SUB to map to the appropriate Calypso values which will appear in the Product Codes.



## 4.13 TestName

This is an Intex Value Mapping that is specific only to the Structured Finance Module.

Test Name may be used to map an Intex Test Name to a Calypso Test Name in a one-to-one or a many-to-one fashion.

## 4.14 TestSubType

---

This is an Intex Value Mapping that is specific only to the Structured Finance Module.

These are the subtype values that Intex assigns to the various deal tests. The codes along with their translations are as follows:

- 0 -- Unspecified CASHFLOW Test type.
- 1 -- Interest coverage test.
- 2 -- Over Collateralization test.
- 3 -- Additional Coverage test.
- 4 -- Delinquency test.
- 5 -- Current Loss test.
- 6 -- Cumulative Loss test.
- 7 -- FG Draw test.
- 8 -- Excess Interest test.
- 9 -- Event of Default.

## 4.15 TestType

---

This is an Intex Value Mapping that is specific only to the Structured Finance Module.

These are the type values that Intex assigns to the various deal tests. The codes along with their translations are as follows:

- 0 -- Unspecified Test type.
- 1 -- Test impacts the waterfall of cash in the structure.
- 2 -- Test determines if current collateral portfolio meets predefined compliance measures.
- 3 -- Test determines whether a new collateral item can be purchased into an existing portfolio.
- 4 -- Test is expected to occur at some point (FAIL status is expected and does not indicate a negative condition).

## 4.16 Defining Products

---

Mapping for Structured Finance and for Bond Asset Backed Products is a two step process:

First one maps the appropriate Intex values to Calypso values to define the Deal information. This is not a one-to-one mapping of fields; but, rather it is a group of three fields mapped to four attributes in Calypso.

Specifically, the mapping is for the fields:

DEAL\_CATEGORY  
ASSET\_BACK\_TYPE  
COLLATERAL\_TYPE

To:

Deal Type  
Deal Sector  
Import Data Level  
Default Bond Template

The Import Data Level that is chosen sets the default when this deal is fetched via the Intex Loader. One may use the Import Data Level drop-down to subsequently change this setting before the "Update" or leave it as the setting has been mapped.

The Default Bond Template is the Bond Template that will be used to import and save the bonds associated with the deal unless one changes this in the next step. These are the bonds or tranches that are the liabilities of the deal.

The instructions that follow will illustrate this mapping process to produce a product that has the following characteristics:

|                      |                       |
|----------------------|-----------------------|
| Deal Type =          | CDO                   |
| Deal Sector =        | High Yield Bonds      |
| Import Data Level =  | ABS Deal & Collateral |
| Bond Template Name = | intexdealdefault      |
| Bond Type =          | CDO Senior Fixed      |

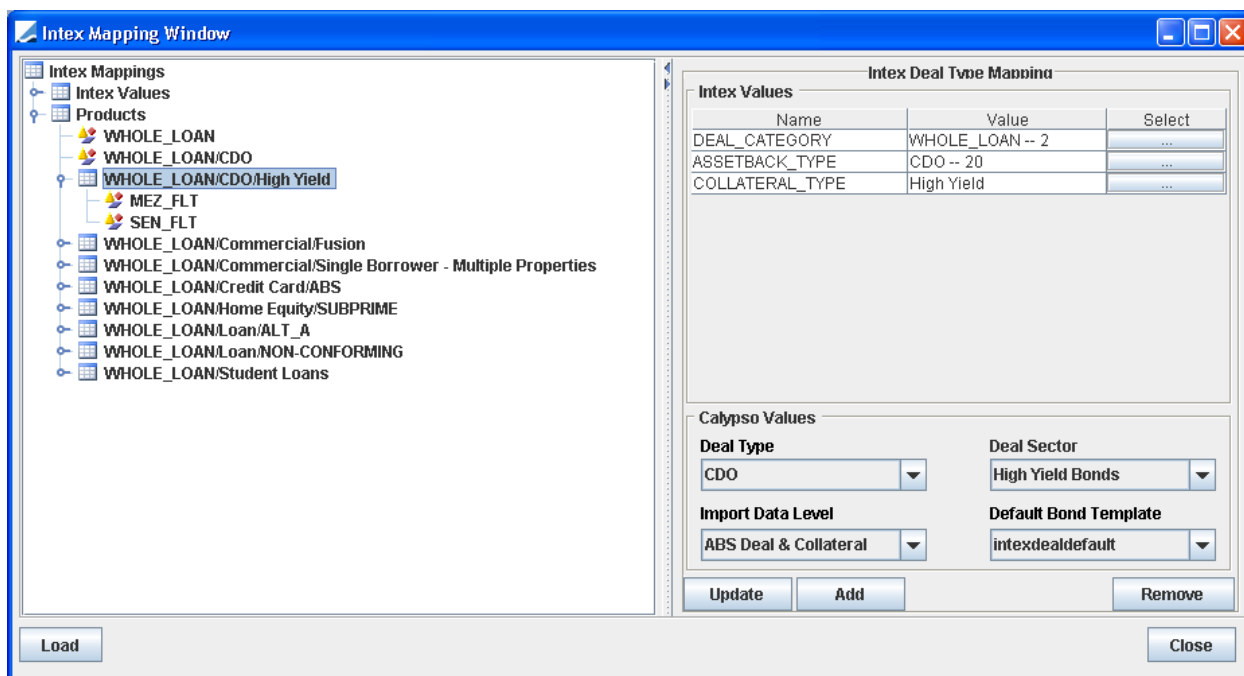
Navigate to the Intex Mapping Window via: [Intex Loader > Utilities > Intex Mapping Setup](#)

In the next window picture, it can be seen that the following values:

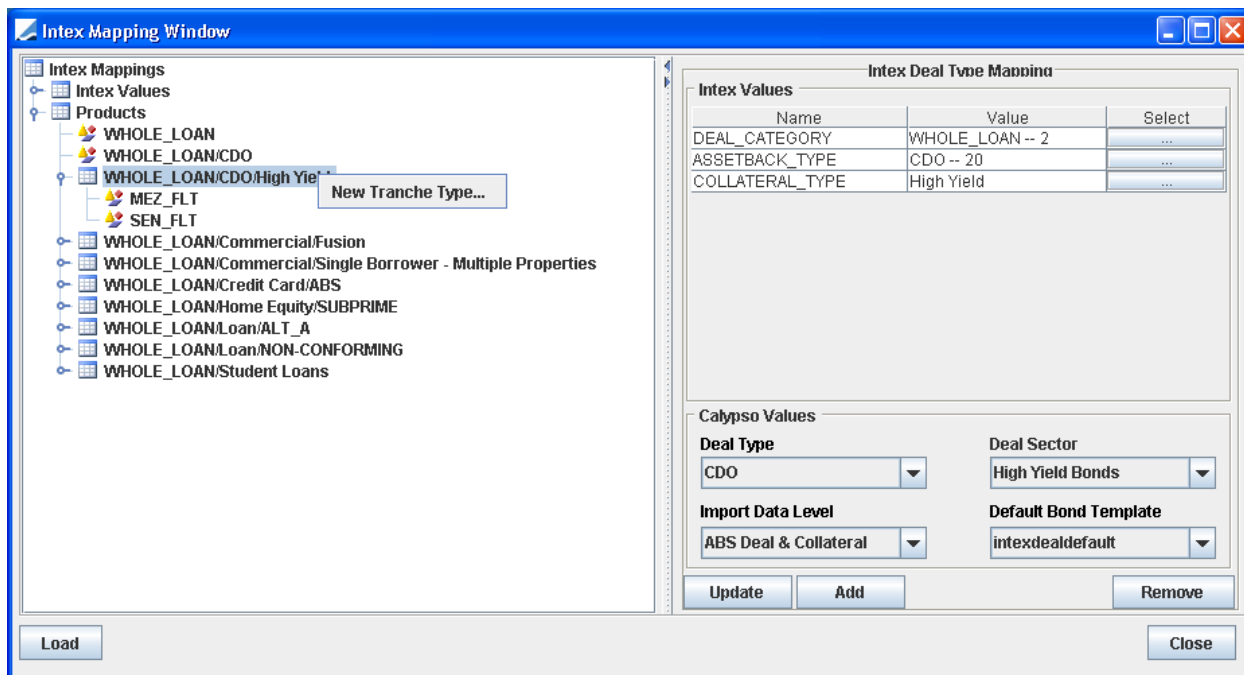
|                   |            |
|-------------------|------------|
| DEAL_CATEGORY =   | WHOLE_LOAN |
| ASSETBACK_TYPE =  | CDO        |
| COLLATERAL_TYPE = | High Yield |

Have already been mapped to:

|                         |                       |  |
|-------------------------|-----------------------|--|
| Deal Type =             | CDO                   | "CDO" is selected from a drop-down list defined by the Domain Value, ABSDeal.subtype.  |
| Deal Sector =           | High Yield Bonds      | "High Yield Bonds" is selected from a drop-down list defined by the Domain Value, ABSDeal.extendedType.  |
| Import Data Level =     | ABS Deal & Collateral | "ABS Deal & Collateral" is selected from a drop-down list defined by the Domain Value, IntexMapping.datalevel to be:<br>ABS Deal<br>ABS Deal & Collateral<br>Bond Only |
| Default Bond Template = | intexdealdefault      | "intexdealdefault" is selected from a drop-down list of the possible Bond Templates that have been defined.  |



For the second step, the tranche has to be defined to be "Senior Fixed". This is done by right clicking on the WHOLE\_LOAN/CDO/High Yield Product entry and the button to choose to set a "New Tranche Type" is displayed:



Using this button supplies a new tranche entry that is to be defined:

**Intex Mapping Window**

**Intex Mappings**

- Intex Values
- Products
  - WHOLE\_LOAN
  - WHOLE\_LOAN/CDO
  - WHOLE\_LOAN/CDO/High Yield
    - MEZ\_FLT
    - SEN\_FLT
  - WHOLE\_LOAN/Commercial/Fusion
  - WHOLE\_LOAN/Commercial/Single Borrower - Multiple Properties
  - WHOLE\_LOAN/Credit Card/ABS
  - WHOLE\_LOAN/Home Equity/SUBPRIME
  - WHOLE\_LOAN/Loan/ALT\_A
  - WHOLE\_LOAN/Loan/NON-CONFORMING
  - WHOLE\_LOAN/Student Loans

**Intex Bond Type Mapping**

**Intex Values**

| Name            | Value           | Select |
|-----------------|-----------------|--------|
| DEAL_CATEGORY   | WHOLE_LOAN -- 2 |        |
| ASSETBACK_TYPE  | CDO -- 20       |        |
| COLLATERAL_TYPE | High Yield      |        |
| TRANCHE_TYPE    |                 | ...    |

**Calypso Values**

**Deal Type**: CDO

**Deal Sector**: High Yield Bonds

**Bond Type**: CDO Mez Floater

**Bond Template Name**:

**Buttons**: Add, Remove, Load, Close

Use the ellipsis (...) next to TRANCHE\_TYPE to select both of the Tranche Types, SEN and FIX:

**Choose TRANCHE\_TYPE Values**

**Left List:**

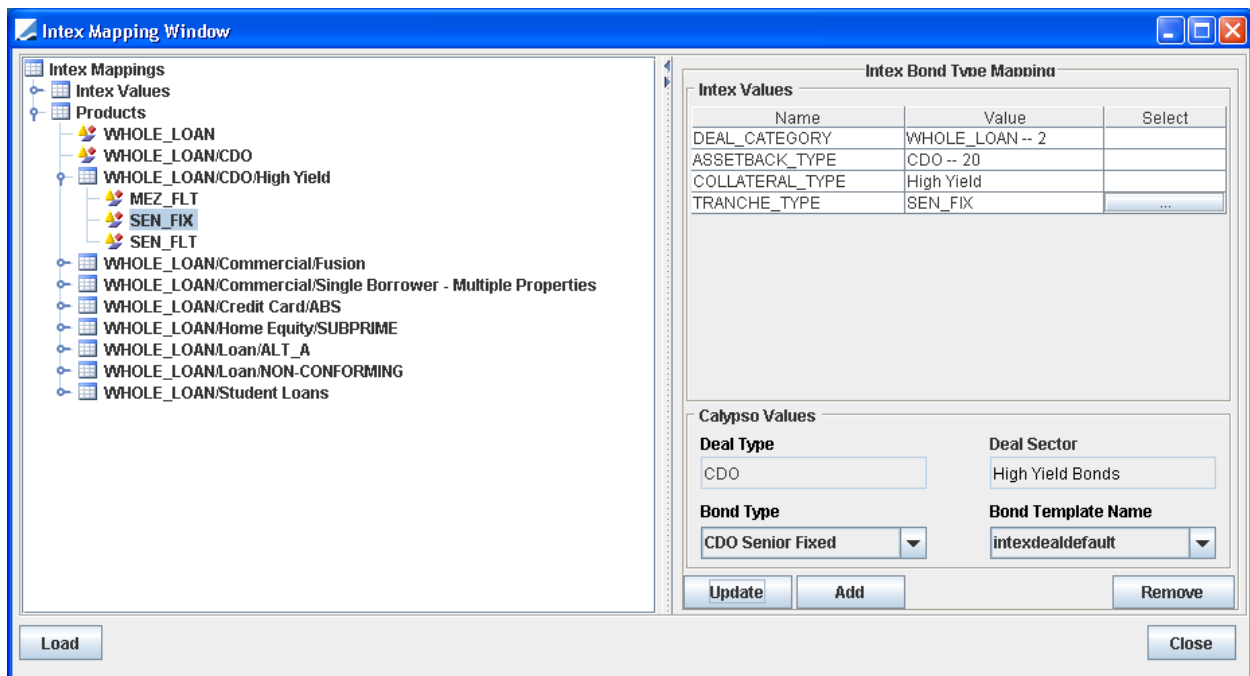
- Accelerating Senior -- AS
- Accretion Directed -- AD
- Accrual -- Z
- Agency Mega, Giant or Platinum -- MEGA
- Amortizing -- AMZ
- Ascending Rate Bond -- ARB
- Auction Rate Bond -- AUC
- Available Funds Class -- AFC
- Bullet Maturity -- BUL
- Call -- RDM
- Call class -- CALL
- Call class -- REDEMPTION
- Callable class -- CALLABLE
- Callable class -- REDEEMABLE
- Capital Accretion Bond -- CAB

**Right List:**

- Senior -- SEN
- Fixed-rate -- FIX

**Buttons**: >>, <<, Up, Down, OK, Cancel

Change the Bond Type to CDO Senior Fixed, make sure the Bond Template Name is set to the desired value and "Add" it to the Product mapping list:



This completes the definition of the mapping for a CDO – High Yield Bonds – Senior Fixed with the bond template, intexdealdefault.



## Section 5. Importing Structured Finance Deals from Intex

You can import Intex Structured Finance Deal data using the Intex Loader.

### 5.1 Using the Intex Loader

The Intex Loader is a separate process that is used to import Structured Finance Deals or individual Structured Finance Bonds (tranches) from the Intex database. The mapping from Intex values to Calypso values has already been illustrated in previous examples. This mapping facility is under the Utilities menu.

To fetch a Structured Finance Deal, use the Intex Deal Name. The following window illustrates having queried the database for the Structured Finance Deal, Capstan:

- Select the drop-down choice of Deal Name.
- Enter the Intex Deal Name and click on the "Query" button.

The screenshot shows the 'Intex Loader' window with the 'Utilities' tab selected. The 'Single Request' sub-tab is active. A 'Deal Name' dropdown menu is set to 'capstan', and the 'Query' button has been clicked. Below the input fields is a table with 7 columns: Selection, Deal Name, Tranche Name, Tranche Type, Cusip, Deal Category, and Assetback Ty. The table contains 7 rows of data for the 'CAPSTAN' deal. To the right of the table is an 'Import Data Level' dropdown menu set to 'ABS Deal & C...', and buttons for 'Update', 'Select All', and 'Unselect All'. At the bottom, a 'Status' box displays the message 'Query request completed successfully.' and a 'Close' button is located at the very bottom center.

| Selection                           | Deal Name | Tranche Name | Tranche Type | Cusip     | Deal Category | Assetback Ty |
|-------------------------------------|-----------|--------------|--------------|-----------|---------------|--------------|
| <input checked="" type="checkbox"/> | CAPSTAN   | A_1A         | SEN_FLT      | 14067XAA6 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | A_1          | SEN_FLT      | 14067XAC2 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | B            | SEN_FLT      | 14067XAE8 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | C            | SEN_FIX      | 14067XAL2 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | D_1          | MEZ_FLT      | 14067XAN8 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | D_2          | MEZ_FIX      | 14067XAQ1 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | E            | JUN_SUB      | CAPSTANEV | WHOLE_LOAN    | CDO          |

If the Structured Finance Deal is successfully fetched from the Intex database, the "Status" at the bottom of the window will read, "Query request completed successfully" and all of the bonds issued from the deal will appear in the body of the window as illustrated above.

The Import Data Level has defaulted to "ABS Deal & Collateral" as was set in the Intex Mapping for this structure (see the mapping instructions). However, this importing of the data level may be changed if necessary. As illustrated in the next window, the data import choices are:

- |                       |  |
|-----------------------|--|
| ABS Deal              | – just imports the deal without any of the individual collateral |
| ABS Deal & Collateral | – imports the deal and individual collateral, if it is available |
| Bond Only             | – just imports all of the bonds without the deal structure       |

The Intex Loader window displays a table of data for the deal 'capstan'. The table has columns: Selection, Deal Name, Tranche Name, Tranche Type, Cusip, Deal Category, and Assetback Ty. All rows are selected. To the right, the 'Import Data Level' dropdown is set to 'ABS Deal & Collateral Bond Only'. The status bar at the bottom indicates 'Query request completed successfully'.

| Selection                           | Deal Name | Tranche Name | Tranche Type | Cusip     | Deal Category | Assetback Ty |
|-------------------------------------|-----------|--------------|--------------|-----------|---------------|--------------|
| <input checked="" type="checkbox"/> | CAPSTAN   | A_1A         | SEN_FLT      | 14067XAA6 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | A_1          | SEN_FLT      | 14067XAC2 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | B            | SEN_FLT      | 14067XAE8 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | C            | SEN_FIX      | 14067XAL2 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | D_1          | MEZ_FLT      | 14067XAN8 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | D_2          | MEZ_FIX      | 14067XAQ1 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | E            | JUN_SUB      | CAPSTANEV | WHOLE_LOAN    | CDO          |

Status: Query request completed successfully.

To update the Calypso database with the information from the Intex database, just click **Update**. The "Status" will change to "Processing update request ..." and then to "Update request completed successfully" if the update is successful.

The Intex Loader window is identical to the previous one, but the 'Update' button is now visible in the 'Import Data Level' section. The status bar at the bottom indicates 'Update request completed successfully'.

| Selection                           | Deal Name | Tranche Name | Tranche Type | Cusip     | Deal Category | Assetback Ty |
|-------------------------------------|-----------|--------------|--------------|-----------|---------------|--------------|
| <input checked="" type="checkbox"/> | CAPSTAN   | A_1A         | SEN_FLT      | 14067XAA6 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | A_1          | SEN_FLT      | 14067XAC2 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | B            | SEN_FLT      | 14067XAE8 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | C            | SEN_FIX      | 14067XAL2 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | D_1          | MEZ_FLT      | 14067XAN8 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | D_2          | MEZ_FIX      | 14067XAQ1 | WHOLE_LOAN    | CDO          |
| <input checked="" type="checkbox"/> | CAPSTAN   | E            | JUN_SUB      | CAPSTANEV | WHOLE_LOAN    | CDO          |

Status: Update request completed successfully.

Note that within the Intex Loader, you may double-click on any of the bonds and the Bond Window will display with the information for that specific bond.

## Section 6. Structured Finance Deal Product Content

The Structured Finance Deal window is accessed via:

[Calypso Navigator > Configuration > Fixed Income > ABS Deal](#)

The Structured Finance Deal may be queried by any of the following identifiers in the drop-down:

CUSIP  
INTEX\_NAME  
ISIN  
Name

The value of the identifier is placed to the right of the identifier label. When CUSIP or ISIN are used, one is actually employing a CUSIP or ISIN identifier of any of the tranches of the deal in order to display the complete Structured Finance Deal information. The individual tranche associated with the CUSIP or ISIN specified will appear in the Tranche Summary. If one is interested in that particular tranche's details, one may double-click on the appropriate row in the Tranche Summary and the Bond Product for that tranche will be displayed. Name may be used with the Deal Full Name.

The Structured Finance Deal window contains eight panels which present overall deal information, individual tranche (bond) information, collateral summary, group and detail information, etc. The panels and the data available on the panels are described in the sections that follow. The window and its panels are very configurable and dock-able as described in *Section 7.1 – Configuration Templates*; however, as an introduction, the window for a Collateralized Bond Obligation (CBO) example could be configured to appear similar to the following:

**Structured Finance Deal [101000/release/calypso\_user]**

File Window Help

Deal: **INTEX\_NAME** **CAPSTAN (Capstan CBO Limited)** As Of Date: **02/05/2009**

| Deal Summary            |   | Collateral Summary     |                |
|-------------------------|---|------------------------|----------------|
| Deal Name               | CAPSTAN                                   | Original Asset Balance | 200,800,000.00 |
| Deal Full Name          | Capstan CBO Limited                       | Current Balance        | 58,579,000.00  |
| Issuer                  | CAPSTAN CBO                               | Num Of Assets          | 28             |
| Series                  | CAPSTAN                                   | Current WAC            | 9.872          |
| Deal Type               | CDO                                       | Current WAS            |                |
| Deal Sector             | High Yield Bonds                          | Current Amort Term     | 27             |
| Trustee                 | CHASE MANHATTAN BANK                      |                        |                |
| Dealer                  | FIRST UNION SECURITIES                    |                        |                |
| Original Balance        | 195,695,000.00                            |                        |                |
| Current Balance         | 84,417,328.20                             |                        |                |
| Bond Currencies         | USD                                       |                        |                |
| Country                 | UNITED STATES                             |                        |                |
| Closing Date            | 11/08/2000                                |                        |                |
| First Payment Date      | 12/08/2000                                |                        |                |
| Reinvestment End Date   |   |                        |                |
| Data Source             | INTEX                                     |                        |                |
| Last Update From Source | 03/03/2009                                |                        |                |
| Comments                | Last Updated on :3/3/09 8:58:35.375 AM E: |                        |                |
| Entered User            | calypso_user                              |                        |                |
| Entered Date            | 03/03/2009                                |                        |                |

| Tranche Summary |                    |           |      |          |              |                     |                    |                |        |                    |
|-----------------|--------------------|-----------|------|----------|--------------|---------------------|--------------------|----------------|--------|--------------------|
| Tranche Name    | Intex Tranche Type | CUSIP     | ISIN | Currency | Total Issued | Original Face Value | Current Face Value | Current Factor | Coupon | Rate Index         |
| A_1A            | SEN_FLT            | 14067XAA6 |      | USD      | 15,000,000   | 15,000,000.00       | 2,319,715.33       | 0.1546476887   | 0.000  | USD/LIBOR/6M/T3750 |
| A_1             | SEN_FLT            | 14067XAC2 |      | USD      | 116,125,000  | 116,125,000.00      | 17,958,462.83      | 0.1546476885   | 0.000  | USD/LIBOR/6M/T3750 |
| B               | SEN_FLT            | 14067XAE8 |      | USD      | 21,000,000   | 21,000,000.00       | 21,453,123.13      | 1.0215772919   | 0.000  | USD/LIBOR/6M/T3750 |
| C               | SEN_FIX            | 14067XAL2 |      | USD      | 6,850,000    | 6,850,000.00        | 7,163,901.25       | 1.0458250000   | 9.165  |                    |
| D_1             | MEZ_FLT            | 14067XAN8 |      | USD      | 12,220,000   | 12,220,000.00       | 11,162,607.22      | 0.9134703126   | 0.000  | USD/LIBOR/6M/T3750 |

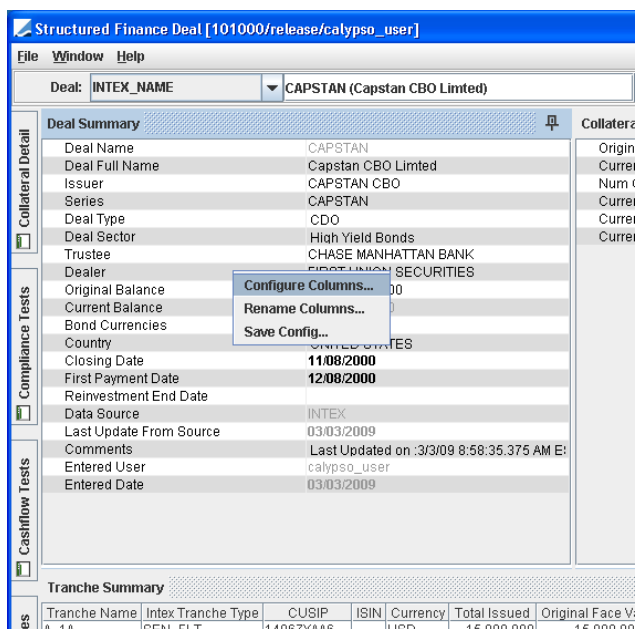
| Collateral Groups |                        |                 |                     |                    |           |               |                         |                 |       |
|-------------------|------------------------|-----------------|---------------------|--------------------|-----------|---------------|-------------------------|-----------------|-------|
| Group Name        | Original Asset Balance | Current Balance | Original Amort Term | Current Amort Term | Asset Age | Num Of Assets | Cashflow Stratification | Collateral Type | Cumul |
| Manual T...       | 200,800,000.00         | 58,579,000.00   | 61                  | 27                 | 30        | 28            | FIX_10YR                | HIGH YIELD      |       |

This Capstan CBO example will be used in the next sections describing each of the panels.

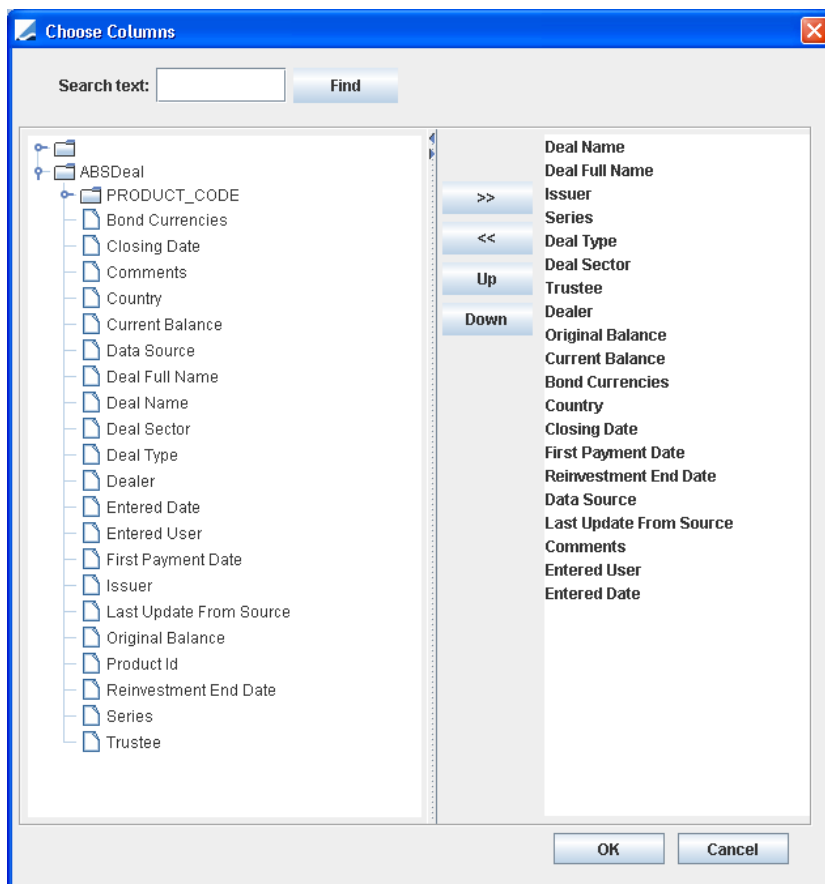
### 6.1 Deal Summary

The Deal Summary provides the essential identification information for the Structured Finance Deal as well as overall issue statistics, dates, and key legal entities such as the issuer, trustee and dealer. The Deal Summary Panel may be viewed in the Capstan CBO example pictured above in Section 6.

The rows in the Deal Summary are configurable and the row labels may be renamed. To do such, right click on the body of the panel and the following dialog will be displayed:



If the “Configure Columns” choice is selected, the Choose Columns window is displayed:



If the configuration is saved, it will be saved in this manner for all Structured Finance deals that are the same Deal Type as this deal (e.g. CDO for Capstan).

The complete list of fields that may be selected for the Deal Summary Panel is included as Appendix 1.

Of course, the Product Code fields are configurable and extensible. The following fields are mandatory and may not be deleted:

- Deal Name
- Deal Full Name
- Issuer
- Series
- Deal Type
- Deal Sector

## 6.2 Collateral Summary

The Collateral Summary provides overall statistics for the underlying collateral. The Collateral Summary Panel may be viewed in the Capstan CBO example pictured above in Section 6.

The rows in the Collateral Summary are configurable and the row labels may be renamed. To do such, right click on the body of the panel and Choose Columns or Rename Columns windows will be accessible. The Collateral Summary fields are not editable as these fields are derived from the "Total" line of the Collateral Groups Panel. If one does edit the Collateral Groups Panel, the changes will roll-up to the Collateral Summary.

The complete list of fields that may be selected for the Collateral Summary Panel is included as Appendix 2.

## 6.3 Tranche Summary

The Tranche Summary provides a list of the tranches (bonds) that are the issued liabilities for this particular deal. Tranche identifiers (e.g. CUSIP, ISIN, etc.) and tranche statistics (e.g. Original Face Value, Current Face Value, Coupon, etc.) may be viewed on each tranche descriptor row. The Tranche Summary Panel may be viewed in the Capstan CBO example pictured above in Section 6.

The columns in the Collateral Summary are configurable and the column labels may be renamed. To do such, right click on the body of the panel and Choose Columns or Rename Columns windows will be accessible.

On the Tranche Summary, the right click provides one a few more choices as to how one can manipulate the tranches. As depicted in the following screen shot, one may add or delete tranches or move the order around, etc.:

The screenshot shows the 'Tranche Summary' panel with a table of tranches. A right-click context menu is open over the table, showing options to insert, edit, remove, or move rows, as well as configure or rename columns. The table has columns for Tranche Name, Intex Tranche Type, CUSIP, ISIN, Currency, Total Issued, Original Face Value, Current Face Value, Current Factor, Coupon, and Rate Index. The rows are labeled A\_1A, A\_1, B, C, D\_1, D\_2, and E.

| Tranche Name | Intex Tranche Type | CUSIP     | ISIN | Currency | Total Issued   | Original Face Value | Current Face Value | Current Factor | Coupon | Rate Index         |
|--------------|--------------------|-----------|------|----------|----------------|---------------------|--------------------|----------------|--------|--------------------|
| A_1A         | SEN_FLT            | 14067XAA6 |      | USD      | 15,000,000.00  | 15,000,000.00       | 2,319,715.33       | 0.1546476887   | 0.000  | USD/LIBOR/6M/T3750 |
| A_1          | SEN_FLT            | 14067XAC2 |      | USD      | 116,125,000.00 | 116,125,000.00      | 17,958,462.83      | 0.1546476885   | 0.000  | USD/LIBOR/6M/T3750 |
| B            | SEN_FLT            | 14067XAE8 |      | USD      | 21,000,000.00  | 21,000,000.00       | 21,453,123.13      | 1.0215772919   | 0.000  | USD/LIBOR/6M/T3750 |
| C            | SEN_FIX            | 14067XAL2 |      | USD      | 6,850,000.00   | 6,850,000.00        | 7,163,901.25       | 1.0458250000   | 9.165  |                    |
| D_1          | MEZ_FLT            | 14067XAN8 |      | USD      | 12,220,000.00  | 12,220,000.00       | 11,162,607.22      | 0.9134703126   | 0.000  | USD/LIBOR/6M/T3750 |
| D_2          | MEZ_FIX            | 14067XAQ1 |      | USD      | 2,000,000.00   | 2,000,000.00        | 1,859,518.44       | 0.9297592200   | 13.165 |                    |
| E            | JUN_SUB            | CAPSTANEV |      | USD      | 22,500,000.00  | 22,500,000.00       | 22,500,000.00      | 1.0000000000   | 0.000  |                    |

If one double-clicks on a row in the Tranche Summary, the Bond Product associated with that tranche will display.

The complete list of fields that may be selected for the Tranche Summary Panel is included as Appendix 3.

## 6.4 Collateral Groups

The Collateral Groups provides overall statistics for the underlying collateral on a group by group basis. If there are not multiple groups of collateral for the deal being viewed, all of the collateral will be depicted in one summary row. The Collateral Groups Panel may be viewed in the Capstan CBO example pictured above in Section 6 as one row because there are no collateral groups defined for this CBO.

The columns in the Collateral Groups are configurable and the columns labels may be renamed. To do such, right click on the body of the panel and Choose Columns or Rename Columns windows will be accessible.

The Total row, which is on the top of the group list, has a drop-down in the "Group Name" column that may be set to "Manual Total" or "Auto Total". When it is set to "Manual Total", there is no summation or other logic happening between the individual group rows and the Total row. "Manual Total" is the way it will appear if the Structured Finance Deal is imported from Intex. This is to signify that the totals are taken from Intex as is without any calculations performed by Calypso between the group rows and the Total row. If the user selects "Auto Total" for the Total row, Calypso will do summations and weighted averages to arrive at the Total row from the data present in the group rows. This functionality allows the Total row to be functional when the deal is imported from Intex or when the deal is hand entered by the user.

The complete list of fields that may be selected for the Collateral Groups Panel is included as Appendix 4.

## 6.5 Legal Entities

The Legal Entities Panel displays all the legal entities associated with this deal that are either sourced from Intex or manually entered by the user.

If one double-clicks on any value in the "Role" column, the field will convert to a drop-down from which the user may select the appropriate role.

If one single clicks on any value in the "Legal Entity" (short name) column, an ellipsis will display that may function to navigate the user to the Legal Entity Chooser window.

If one double-clicks on any other value in a row, the appropriate Legal Entity window will display.

The complete list of fields that may be selected for the Legal Entities Panel is included as Appendix 5.

Simply configured, the Legal Entities Panel may appear as follows:

| Role               | Legal Entity               | Full Name                  | Country |
|--------------------|----------------------------|----------------------------|---------|
| Dealer             | ING BARINGS                | ING BARINGS                | USD     |
| Collateral Manager | ING GHENT ASSET MANAGEMENT | ING Ghent Asset Management | USD     |

## 6.6 Cash Flow Tests

The Cash Flow Tests Panel displays the results of tests typically performed on Collateralized Debt Obligations (CDOs). CDO is the general classification that encompasses either Structured Finance Deals backed by corporate bonds (Collateralized Bond Obligations or CBOs) or backed by corporate loans (Collateralized Loan Obligations or CLOs) or backed by other collateral such as ABS. These tests are usually performed at each payment date, which is typically monthly. If the user is sourcing data for the Structured Finance Deals from Intex, the results displayed here are the outcome of tests performed by the trustee and passed on by Intex. Alternatively, the user may enter this data from a different source. The typical cash flow tests relevant to CDOs are Interest Coverage (IC) tests and Overcollateralization (OC) tests. The IC test determines that there is enough interest coming from the underlying collateral to cover the interest due on the associated class or classes. The OC test determines if there is enough notional amount of collateral to pay off the notional amount of the associated class or classes. The test thresholds are defined for each class or a group of classes of securities. The Sub Type column is a drop-down of all the different types of tests that have been defined and may exist.

The complete list of fields that may be selected for the Cash Flow Tests Panel is included as Appendix 6.

The following is an example of how the panel might appear for the Capstan deal:

|                  | Cashflow Tests                           |          |   |            |            |           |
|------------------|--|----------|---|------------|------------|-----------|
|                  | Test Name                                | Sub Type | Definition  | Threshold  | Actual     | Pass/Fail |
| Collateral Group | Class A Interest Coverage Ratio Test     | IC       | Satisfied when the Class A Interest Coverage Ratio is at least equal to 125%. | 125.000000 | 874.010000 | Pass      |
|                  | Class A Overcollateralization Ratio Test | OC       | Satisfied when the Class A OC Ratio is at least equal to 140.1%.              | 140.100000 | 277.100000 | Pass      |
|                  | Class B Interest Coverage Ratio Test     | IC       | Satisfied when the Class B Interest Coverage Ratio is at least equal to 120%. | 120.000000 | 378.130000 | Pass      |
|                  | Class B Overcollateralization Ratio Test | OC       | Satisfied when the Class B OC Ratio is at least equal to 119%.                | 119.000000 | 134.650000 | Pass      |
|                  | Class C Interest Coverage Ratio Test     | IC       | Satisfied when the Class C Interest Coverage Ratio is at least equal to 115%. | 115.000000 | 263.200000 | Pass      |
|                  | Class C Overcollateralization Ratio Test | OC       | Satisfied when the Class C OC Ratio is at least equal to 118.3%.              | 118.300000 | 114.920000 | Fail      |
| Summary          | Class D Overcollateralization Ratio Test | OC       | Satisfied when the Class D OC Ratio is at least equal to 110.2%.              | 110.200000 | 90.750000  | Fail      |

## 6.7 Compliance Tests

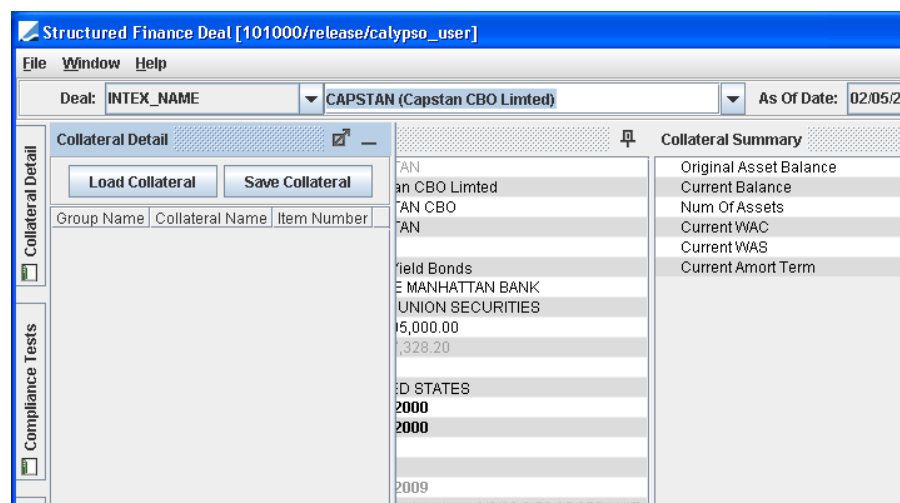
The Compliance Tests Panel is very similar to the Cash Flow Tests Panel in that there is typically a test name, a test definition, a threshold, an actual result and a pass/fail designation. These tests are also common for CDOs; however, there are more generic tests done on RMBS and other types of securities that may be reported in this section if one is sourcing data from Intex. Typical compliance tests relate to the diversification, concentration and default statistics of the underlying collateral.

The complete list of fields that may be selected for the Compliance Tests Panel is included as Appendix 6.

## 6.8 Collateral Detail

The Collateral Detail Panel will report the individual corporate bonds, corporate loans, mortgage loans, etc., that make up the underlying collateral, if several conditions are met. If the user is sourcing the data from Intex, then Intex has to have the data available. Additionally, when the user imported the deal from Intex, the choice to import the "ABS Deal & Collateral" had to be selected. Alternatively, the user may input this data from another source.

The Collateral Detail Panel is viewed slightly differently than the other panels in the Structured Finance Deal. One clicks on the docked label, "Collateral Detail" and a small version of the panel will appear without any data and two icons in the upper right hand corner.



If one clicks on the box with the outward pointing arrow, the full panel will appear, still without any data:

Structured Finance Deal [101000/release/calypso\_user]

File Window Help

Deal: INTEX\_NAME CAPSTAN (Capstan CBO Limited) As Of Date: 02/05/2009

Collateral Detail

Load Collateral Save Collateral

Group Name Collateral Name Item Number ARM: Gross Margin/Spread ARM: Index ARM: Life Cap ARM: Life Floor ARM: Payment Cap ARM: Payment Floor ARM: Pay

It is then necessary to click on the button, “Load Collateral” to view the individual collateral. This may take some time if the volume of collateral is significant.

For the Capstan CBO example, the Collateral Detail Panel may be configured to look similarly to the following:

Structured Finance Deal [101000/release/calypso\_user]

File Window Help

Deal: INTEX\_NAME CAPSTAN (Capstan CBO Limited) As Of Date: 02/05/2009

Collateral Detail

Load Collateral Save Collateral

| Group Name  | Collateral Name   | Item Number | Asset Type | CUSIP     | Country       | Coupon    | Current Balance | Delinquency St |
|-------------|---|-------------|------------|-----------|---------------|-----------|-----------------|----------------|
| Manual T... | AES Corporation - 9.5% 06/2009  | 1           | Bond       | 00130HAQ8 | United States | 9.500000  | 3,250,000.00    | Current        |
| Manual T... | AK Steel Corp - 7.75% 06/2012   | 2           | Bond       | 001546AG5 | United States | 7.750000  | 1,000,000.00    | Current        |
| Manual T... | Abitibi Consolidated Fin - 8.55% 8/2010   | 3           | Bond       | 003924AG2 | Canada        | 8.550000  | 2,000,000.00    | Current        |
| Manual T... | Bowater Inc - 9.5% 10/2012  | 4           | Bond       | 102183AG5 | United States | 9.500000  | 2,300,000.00    | Current        |
| Manual T... | Cablevision Systems Corp - Libor+4.50% 04/2009 EXG FROM 12686CAT6 ON 05/26/2005 | 5           | Bond       | 12686CAU3 | United States | 8.716250  | 3,000,000.00    | Current        |
| Manual T... | Dayton Superior Corporation - 13% 06/2009                                       | 6           | Bond       | 240028AF7 | United States | 13.000000 | 3,000,000.00    | Current        |
| Manual T... | Gerdau Ameristeel Corp - 10.375% 07/2011  | 7           | Bond       | 37373MAC6 | Canada        | 10.375000 | 3,000,000.00    | Current        |
| Manual T... | Graphic Packaging International Inc - 8.5% 08/2011                              | 8           | Bond       | 38869PAB0 | United States | 8.500000  | 2,000,000.00    | Current        |
| Manual T... | Huntsman LLC - 11.625% 10/2010  | 9           | Bond       | 44701RAE0 | United States | 11.625000 | 1,299,000.00    | Current        |
| Manual T... | IMAX Corp - 9.625% 12/2010  | 10          | Bond       | 45245EAG4 | Canada        | 9.625000  | 1,000,000.00    | Current        |
| Manual T... | Ingles Markets Inc - 8.875% 12/2011   | 11          | Bond       | 457030AC8 | United States | 8.875000  | 3,250,000.00    | Current        |
| Manual T... | Invista - 9.25% 05/2012   | 12          | Bond       | 500657AA9 | Netherlands   | 9.250000  | 2,000,000.00    | Current        |
| Manual T... | K Hovnanian Enterprises - 8% 04/2012  | 13          | Bond       | 442488AL6 | United States | 8.000000  | 3,000,000.00    | Current        |
| Manual T... | Kabel Deutschland GmbH - 10.625% 07/2014 EXG fr 48282BAC7 on 11/2/06            | 14          | Bond       | 48282AAB1 | Germany       | 10.625000 | 3,000,000.00    | Current        |
| Manual T... | Majestic Star Casino LLC - 9.5% 10/2010   | 15          | Bond       | 56075RAF9 | United States | 9.500000  | 2,500,000.00    | Current        |
| Manual T... | Mattress Discounters Co - Common Stock  | 16          | Equity     | 57722Q109 | United States | 0.000000  | 0.00            | Current        |
| Manual T... | Mattress Discounters Co - Equity  | 17          | Equity     |           | United States | 0.000000  | 0.00            | Current        |
| Manual T... | Mediacom LLC - 9.5% 1/2013  | 18          | Bond       | 58445MAJ1 | United States | 9.500000  | 1,000,000.00    | Current        |
| Manual T... | Muzak LLC - 9.875% 3/2009   | 19          | Bond       | 62844KAC9 | United States | 9.875000  | 3,080,000.00    | Current        |
| Manual T... | Natl Beef Pack / NB Finc - 10.5% 08/2011  | 20          | Bond       | 634884AB6 | United States | 10.500000 | 3,000,000.00    | Current        |
| Manual T... | NewPage Corporation - 10.000% - 05/2012   | 21          | Bond       | 651715AC8 | United States | 10.000000 | 2,000,000.00    | Current        |
| Manual T... | Pliant Corporation - 11.125% 09/2009  | 22          | Bond       | 729136AF8 | United States | 11.125000 | 3,000,000.00    | Current        |
| Manual T... | Southern States Coop Inc - 10.5% 11/2010  | 23          | Bond       | 843877AD3 | United States | 10.500000 | 4,000,000.00    | Current        |
| Manual T... | Stater Brothers Hlds - 8.125% 06/2012   | 24          | Bond       | 857555AM8 | United States | 8.125000  | 1,000,000.00    | Current        |
| Manual T... | Stone Container Corporation - 8.375% 07/2012                                    | 25          | Bond       | 861589AZ2 | United States | 8.375000  | 1,400,000.00    | Current        |
| Manual T... | Tembec Inc - Common Stock   | 26          | Equity     | 87974D100 | Canada        | 0.000000  | 0.00            | Current        |
| Manual T... | United Refining Co - 10.5% 08/2012 EXG FR 911358AD1 ON 02/10/05                 | 27          | Bond       | 911358AF6 | United States | 10.500000 | 4,500,000.00    | Current        |
| Manual T... | LNCAPSTAN-CASH  | 28          |            |           |               | 0.000000  | 0.00            | Current        |

Legal Entities Cashflow Tests

The complete list of fields that may be selected for the Collateral Detail Panel is included as Appendix 7.

The Collateral Detail Panel may be docked by clicking on the icon that looks like a box with an internally pointing arrow in the upper right hand corner.



## Section 7. Structured Finance Deal Product Functions

### 7.1 Configuration Templates

The Structured Finance Deal is viewable as a set of eight dock-able panels on a window or in other words, panels that may be maximized and viewable or minimized and indicated just by a label. The placement and size of the dock-able panels on the window and their iconized state may be saved in a template for each Deal Type. In addition, which data fields may be viewable and the placement of these data fields on the panel may be saved in the template for that Deal Type. Calypso defined default templates for a Generic Default, a CLO/CBO, a Leasing ABS, a Consumer ABS, a RMBS and a CMBS. The user may use these defaults, edit them or expand the number of templates up to the number of Deal Types that the user has defined. If a Deal Template is changed and saved for a particular deal, this change will affect all deals of that same Deal Type. If any change hides a data field that is populated, the data will remain unaffected in Calypso, just not viewable unless the Deal Template is changed back again to show the field.

### 7.2 Time Series and As of Date

All of the panels in the Structured Finance Deal except for the Legal Entities Panel have time-series data. In other words, there are data that change over time, such as the Current Balance in the Deal Summary and all of the collateral statistics in the Collateral Groups and the Collateral Summary. The tranches' factors and hence the Current Balances as well as floating rate coupons have the potential to change from payment date to payment date in the Tranche Summary. All of these data items that change with time are stored in the Calypso database and are associated with an "As of Date". If one has a need to look back on previously stored data, a historical As of Date may be selected from the drop-down on the Structured Finance Deal and the data will be appropriately populated.

When a deal is updated through the Intex Loader, the most recent As of Date that is available in the local Intex database is used. The As of Date follows the same logic as that employed by the Intex subroutines.

### 7.3 Menu Choices

The Structured Finance Deal has the following menu choices with the functionality described:

| <b><u>Menu Group = File</u></b> | <b><u>Description</u></b>   |
|---------------------------------|---|
| New                             | Clears the Structured Finance Deal that you were viewing and displays a blank Structured Finance Deal for the user to enter an identifier and bring in a new deal.              |
| Open                            | Displays the Product Chooser Window from which one may query and find the Structured Finance Deal that you want.  |
| Save                            | Saves the current Structured Finance Deal.  |
| Save Deal As New                | Opens a dialog in which to enter a Deal Name and will save the current Structured Finance Deal under the new name. The deal that you started with remains as it was.            |
| Save Performance Data As New    | Opens a dialog in which to enter a date for the new Performance Data (Time Series Data). Saves the deal with the new performance data with date entered being the "As Of Date". |
| Delete Deal Only                | Deletes the Structured Finance Deal without deleting any of the associated tranches.  |
| Delete Deal With Bonds          | Deletes the Structured Finance Deal along with all the associated tranches.   |

|                    |   |
|--------------------|---|
| Import From Source | Displays the Intex Loader, from which one is able to import the deal and associated bonds from Intex. |
| Exit               | Exits the Structured Finance Product.   |

**Menu Group = Window****Description**

|                                |  |
|--------------------------------|--|
| Save <Deal Type> Configuration | Saves the panel configuration as the user default for the particular Deal Type that is set in the Structured Finance Deal.   |
| Reset Layout                   | Resets the panel configuration to the user default for that particular Deal Type. If no Deal Type is set, it resets the panel configuration to the User Generic Configuration. |
| Reset to Calypso Layout        | Resets the panel configuration to the Calypso default for the Deal Type set. If no Deal Type is set, it resets the panel configuration to the Calypso Generic Configuration.   |

## Section 8. ARM Bonds

ARM Bonds must be created with Bond Class = BondAssetBacked and Bond Type = ABS.

### 8.1 ARM Attributes

When "Agency ARM Pool" is selected as the collateral type in the ABS panel of the Bond Definition window, the MBS ARM Info area is added. The MBS ARM Info area contains the ARM attributes, which can be imported from Bloomberg.

The screenshot shows the 'Bond Window' application. The 'ABS Identification' section has 'Collateral' set to 'Agency ARM Pool'. The 'MBS ARM Info' section is expanded, displaying the following data:

| MBS ARM Info              |                       |
|---------------------------|-----------------------|
| Description               |                       |
| Pool No                   | G2 MA2087             |
| Agency Pool Type          | AF                    |
| Group Name                | G2AF                  |
| Description               | 5/1 Hybrid 1%/5% caps |
| Reset Frequency           | 12                    |
| Lookback                  | 30                    |
| Initial Fixed Rate Period | 60                    |
| First Reset Date          | 10/01/2019            |
| Cap                       |                       |
| First Reset Cap           | 1.00000               |
| Periodic Cap              | 1.00000               |
| Life Time Cap             | 8.00000               |

### 8.2 ARM Bonds Pricing

#### 8.2.1 Pricing Environment Settings

The following pricing environment settings are required for ARM bonds:

- Use Pricing Parameter, FORECAST\_FROM\_CURVE = True for the Forecasted WAC (Weighted Average Coupon) and forecasted index values. The Security Coupon will adjust up or down based on the forward rates of the Index (CMT or LIBOR) and the restrictions of the caps and floors.

- Pricing Parameter, PREPAYMENT, should be set to QUOTE to use prepayment quotes.
- Use the pricer BondAssetBacked.

## 8.2.2 Quotes

The following quotes are required for ARM bonds:

- Index Quotes – Historical Index quotes are necessary for the index in use, such as CMT and Libor.
- Prepayment Quotes – The ARM will utilize CPR or PSA Prepayment Quotes to determine forecasted principal prepayments.

If the bond is set up for a CPR quote and no quote is present, 6% CPR will be assumed.

If the bond is set up for a PSA quote and no quote is present, 100% PSA will be assumed.

An example of a 25% CPR quote follows:

The screenshot shows the 'Quotes' application window. At the top, there's a 'QuoteSet' dropdown set to 'default'. Below it, a 'Date' field is set to '01/24/2018' with a 'Set' button. To the right, there are checkboxes for 'Use Date Range' (unchecked), 'Exclude Matured Products' (unchecked), and 'Merge With the Existing' (checked). A 'Name' dropdown is set to 'contains', and a text field below it contains 'Bond.G2 MA2087.07-01-2044.CMT.CPR'. Below this, another text field contains 'BOND.G2 MA2087.07-01-2044.CMT.CPR'. A 'Filters' dropdown is set to '\_ALL\_'. There are 'Add' and 'Remove' buttons. Below these is a table with the following data:

| Date       | Quote Name                        | Quote Type | Bid        | Ask        | Open       | Close       |
|------------|-----------------------------------|------------|------------|------------|------------|-------------|
| 01/24/2018 | Bond.G2 MA2087.07-01-2044.CMT.CPR | CleanPrice | 0.00000000 | 0.00000000 | 0.00000000 | 25.00000000 |

At the bottom, there are buttons for 'Load', 'Clear', 'Delete', 'Save Selection', and 'Save'. Below these are checkboxes for 'Authorization' (unchecked), 'Show Pending Authorizations', and 'Audit Selection'.

## 8.2.3 Curves

The following curves are required for ARM bonds:

- Discount Curve – A discount curve will be necessary to price the bond.
- Index Forward Curve – An Index Forward Curve will be necessary to the price the bond if the Pricing Parameter, FORECAST\_FROM\_CURVE is set to True.

## Section 9. Appendices

### 9.1 Appendix 1 – Deal Summary Fields

---

PRODUCT\_CODE.BB  
PRODUCT\_CODE.BB\_UNIQUE  
PRODUCT\_CODE.CUSIP  
PRODUCT\_CODE.Common  
PRODUCT\_CODE.DTC  
PRODUCT\_CODE.FED  
PRODUCT\_CODE.Feed  
PRODUCT\_CODE.ID\_BB\_ULTIMATE\_PARENT\_CO\_NAME  
PRODUCT\_CODE.INTEX\_NAME  
PRODUCT\_CODE.ISIN  
PRODUCT\_CODE.Local  
PRODUCT\_CODE.RGA  
PRODUCT\_CODE.Status  
Bond Currencies  
Closing Date  
Comments  
Country  
Current Balance  
Data Source  
Deal Full Name  
Deal Name  
Deal Sector  
Deal Type  
Dealer  
Entered Date  
Entered User  
First Payment Date  
Issuer  
Last Update From Source  
Original Balance  
Product Id  
Reinvestment End Date  
Series  
Trustee

## 9.2 Appendix 2 – Collateral Summary Fields

---

Asset Age  
CPR 12M  
CPR 1M  
CPR 3M  
CPR 6M  
CPR Life  
Cashflow Stratification  
Collateral Type  
Cumulative Loss Amount  
Cumulative Loss%  
Current Amort Term  
Current Balance  
Current Factor  
Current LTV  
Current WAC  
Current WAM  
Current WAS  
DSCR  
Delinq 30+  
Delinq 60+  
Delinq 90+  
Delinq Bankruptcies  
Delinq Foreclosures  
Delinq Reo  
Group Name  
Net Coupon  
Num Of Assets  
Original Amort Term  
Original Asset Balance  
Originator  
PSA 12M  
PSA 1M  
PSA 3M  
PSA 6M  
PSA Life  
Property Type Stratification  
Source  
State Stratification

## 9.3 Appendix 3 – Tranche Summary Fields

---

### Bond

#### Issue

##### CreditRating

Issue.CreditRating.Duff\_Phelps

Issue.CreditRating.Fitch

Issue.CreditRating.McCarthy\_Crisanti\_Maffei

Issue.CreditRating.Moody

Issue.CreditRating.S&P

##### OriginalCreditRating

Issue.OriginalCreditRating.Duff\_Phelps

Issue.OriginalCreditRating.Fitch

Issue.OriginalCreditRating.McCarthy\_Crisanti\_Maffei

Issue.OriginalCreditRating.Moody

Issue.OriginalCreditRating.S&P

#### Issuer\_Rating

Issuer\_Rating.Duff\_Phelps

Issuer\_Rating.Fitch

Issuer\_Rating.McCarthy\_Crisanti\_Maffei

Issuer\_Rating.Moody

Issuer\_Rating.S&P

#### ABS Class

#### ABS Collateral Group(s)

#### ABS Series

ABS(Nominal on Trade Date)

ABS(Nominal today)

ABS(Pool Factor on Trade Date)

ABS(Pool Factor today)

Accrual Daycount

Accrual Days

Accrual Rounding

Amortizing Structure

Benchmark

Benchmark Desc

Bond Day Count

Bond Status

Cap

Class

Collateral Type

Country

Coupon  
Coupon Frequency  
Coupon Offset  
Coupon Type  
Current Face Value  
Current Factor  
Date Roll  
Ex-Dividend Days  
Face Value  
Floor  
Holidays  
IMM Remaining Maturity  
Issue Price  
Issued Date  
Issuer  
Issuer Long Name  
MATURITY\_TENOR  
Name  
Next Call Date  
Next Coupon Date  
Next Put Date  
Next Reset Date  
Notional  
Notional Index  
Option Type  
Paydown Offset  
Pool Factor Type  
Price Decimals  
Principal Percentage  
Quote Type  
Rate Index  
Rate Index Spread  
Redemption Date  
Remaining Maturity  
Roll Day  
Stub End Date  
Stub Start Date  
Tick Size  
Total Issued  
Type  
Yield Decimals



Yield Method

Product

Issue

CreditRating

Issue.CreditRating.Duff\_Phelps

Issue.CreditRating.Fitch

Issue.CreditRating.McCarthy\_Crisanti\_Maffei

Issue.CreditRating.Moody

Issue.CreditRating.S&P

Issuer

CreditRating

Issuer.CreditRating.Duff\_Phelps

Issuer.CreditRating.Fitch

Issuer.CreditRating.McCarthy\_Crisanti\_Maffei

Issuer.CreditRating.Moody

Issuer.CreditRating.S&P

Issuer.COUNTRY

Issuer.INDUSTRY

Issuer.Parent Issuer

Issuer\_Attr

Issuer\_Attr.ACCOUNTING

Issuer\_Attr.ALLOCATE\_TO\_CHILDREN\_ONLY

Issuer\_Attr.ANNEX\_VER

Issuer\_Attr.BAFI

Issuer\_Attr.CEDEL

Issuer\_Attr.CLS

Issuer\_Attr.CREDITDOC(Y/N)

Issuer\_Attr.DestinationBook

Issuer\_Attr.EBA\_TIME

Issuer\_Attr.EBS

Issuer\_Attr.EUROCLEAR

Issuer\_Attr.FASB

Issuer\_Attr.FUND ID

Issuer\_Attr.FUND LONG NAME

Issuer\_Attr.FXConnect

Issuer\_Attr.FX\_MARGIN

Issuer\_Attr.Hypothetical Book

Issuer\_Attr.ID\_BB\_ULTIMATE\_PARENT\_CO\_NAME

Issuer\_Attr.INDUSTRY

Issuer\_Attr.INTERNAL

Issuer\_Attr.INTERNATIONAL

Issuer\_Attr.INTEX  
 Issuer\_Attr.ISDA  
 Issuer\_Attr.NRTAX  
 Issuer\_Attr.OptionF\_CustomerId  
 Issuer\_Attr.OptionF\_DateOfBirth  
 Issuer\_Attr.OptionF\_NationalId  
 Issuer\_Attr.OptionF\_PartyId  
 Issuer\_Attr.OptionF\_PlaceOfBirth  
 Issuer\_Attr.RESIDENT  
 Issuer\_Attr.REUTERS  
 Issuer\_Attr.RIB  
 Issuer\_Attr.SICOVAM  
 Issuer\_Attr.STP  
 Issuer\_Attr.STP(Y/N)  
 Issuer\_Attr.Siren  
 Issuer\_Attr.SpotDays  
 Issuer\_Attr.TAX

#### PRODUCT\_CODE

PRODUCT\_CODE.BB  
 PRODUCT\_CODE.BB\_UNIQUE  
 PRODUCT\_CODE.CUSIP  
 PRODUCT\_CODE.Common  
 PRODUCT\_CODE.DTC  
 PRODUCT\_CODE.DebtSeniority  
 PRODUCT\_CODE.DesignatedPriority  
 PRODUCT\_CODE.FED  
 PRODUCT\_CODE.Feed  
 PRODUCT\_CODE.GCFCusip  
 PRODUCT\_CODE.ID\_BB\_ULTIMATE\_PARENT\_CO\_NAME  
 PRODUCT\_CODE.INTEX\_NAME  
 PRODUCT\_CODE.INTEX\_TRANCHE\_TYPE  
 PRODUCT\_CODE.ISIN  
 PRODUCT\_CODE.LoanXID  
 PRODUCT\_CODE.Local  
 PRODUCT\_CODE.Name  
 PRODUCT\_CODE.RGA  
 PRODUCT\_CODE.Status

#### ReferenceEntity

##### Attr

ReferenceEntity.Attr.ACCOUNTING  
 ReferenceEntity.Attr.ALLOCATE\_TO\_CHILDREN\_ONLY

ReferenceEntity.Attr.ANNEX\_VER  
ReferenceEntity.Attr.BAFI  
ReferenceEntity.Attr.CEDEL  
ReferenceEntity.Attr.CLS  
ReferenceEntity.Attr.CREDITDOC(Y/N)  
ReferenceEntity.Attr.DestinationBook  
ReferenceEntity.Attr.EBA\_TIME  
ReferenceEntity.Attr.EBS  
ReferenceEntity.Attr.EUROCLEAR  
ReferenceEntity.Attr.FASB  
ReferenceEntity.Attr.FUND ID  
ReferenceEntity.Attr.FUND LONG NAME  
ReferenceEntity.Attr.FXConnect  
ReferenceEntity.Attr.FX\_MARGIN  
ReferenceEntity.Attr.Hypothetical Book  
ReferenceEntity.Attr.ID\_BB\_ULTIMATE\_PARENT\_CO\_NAME  
ReferenceEntity.Attr.INDUSTRY  
ReferenceEntity.Attr.INTERNAL  
ReferenceEntity.Attr.INTERNATIONAL  
ReferenceEntity.Attr.INTEX  
ReferenceEntity.Attr.ISDA  
ReferenceEntity.Attr.NRTAX  
ReferenceEntity.Attr.OptionF\_CustomerId  
ReferenceEntity.Attr.OptionF\_DateOfBirth  
ReferenceEntity.Attr.OptionF\_NationalId  
ReferenceEntity.Attr.OptionF\_PartyId  
ReferenceEntity.Attr.OptionF\_PlaceOfBirth  
ReferenceEntity.Attr.RESIDENT  
ReferenceEntity.Attr.REUTERS  
ReferenceEntity.Attr.RIB  
ReferenceEntity.Attr.SICOVAM  
ReferenceEntity.Attr.STP  
ReferenceEntity.Attr.STP(Y/N)  
ReferenceEntity.Attr.Siren  
ReferenceEntity.Attr.SpotDays  
ReferenceEntity.Attr.TAX

#### CreditRating

ReferenceEntity.CreditRating.Duff\_Phelps  
ReferenceEntity.CreditRating.Fitch  
ReferenceEntity.CreditRating.McCarthy\_Crisanti\_Maffei  
ReferenceEntity.CreditRating.Moody

ReferenceEntity.CreditRating.S&P

Obligation

Attr

ReferenceEntity.Obligation.Attr.ACCOUNTING  
 ReferenceEntity.Obligation.Attr.ALLOCATE\_TO\_CHILDREN\_ONLY  
 ReferenceEntity.Obligation.Attr.ANNEX\_VER  
 ReferenceEntity.Obligation.Attr.BAFI  
 ReferenceEntity.Obligation.Attr.CEDEL  
 ReferenceEntity.Obligation.Attr.CLS  
 ReferenceEntity.Obligation.Attr.CREDITDOC(Y/N)  
 ReferenceEntity.Obligation.Attr.DestinationBook  
 ReferenceEntity.Obligation.Attr.EBA\_TIME  
 ReferenceEntity.Obligation.Attr.EBS  
 ReferenceEntity.Obligation.Attr.EUROCLEAR  
 ReferenceEntity.Obligation.Attr.FASB  
 ReferenceEntity.Obligation.Attr.FUND ID  
 ReferenceEntity.Obligation.Attr.FUND LONG NAME  
 ReferenceEntity.Obligation.Attr.FXConnect  
 ReferenceEntity.Obligation.Attr.FX\_MARGIN  
 ReferenceEntity.Obligation.Attr.Hypothetical Book  
 ReferenceEntity.Obligation.Attr.ID\_BB\_ULTIMATE\_PARENT\_CO\_NAME  
 ReferenceEntity.Obligation.Attr.INDUSTRY  
 ReferenceEntity.Obligation.Attr.INTERNAL  
 ReferenceEntity.Obligation.Attr.INTERNATIONAL  
 ReferenceEntity.Obligation.Attr.INTEX  
 ReferenceEntity.Obligation.Attr.ISDA  
 ReferenceEntity.Obligation.Attr.NRTAX  
 ReferenceEntity.Obligation.Attr.OptionF\_CustomerId  
 ReferenceEntity.Obligation.Attr.OptionF\_DateOfBirth  
 ReferenceEntity.Obligation.Attr.OptionF\_NationalId  
 ReferenceEntity.Obligation.Attr.OptionF\_PartyId  
 ReferenceEntity.Obligation.Attr.OptionF\_PlaceOfBirth  
 ReferenceEntity.Obligation.Attr.RESIDENT  
 ReferenceEntity.Obligation.Attr.REUTERS  
 ReferenceEntity.Obligation.Attr.RIB  
 ReferenceEntity.Obligation.Attr.SICOVAM  
 ReferenceEntity.Obligation.Attr.STP  
 ReferenceEntity.Obligation.Attr.STP(Y/N)  
 ReferenceEntity.Obligation.Attr.Siren  
 ReferenceEntity.Obligation.Attr.SpotDays  
 ReferenceEntity.Obligation.Attr.TAX

```

CreditRating
    ReferenceEntity.Obligation.CreditRating.Duff_Phelps
    ReferenceEntity.Obligation.CreditRating.Fitch
    ReferenceEntity.Obligation.CreditRating.McCarthy_Crisanti_Maffei
    ReferenceEntity.Obligation.CreditRating.Moody
    ReferenceEntity.Obligation.CreditRating.S&P
ReferenceEntity.Obligation.Issuer
ReferenceEntity.Name
Underlying
    Issue
        CreditRating
            Underlying.Issue.CreditRating.Duff_Phelps
            Underlying.Issue.CreditRating.Fitch
            Underlying.Issue.CreditRating.McCarthy_Crisanti_Maffei
            Underlying.Issue.CreditRating.Moody
            Underlying.Issue.CreditRating.S&P
        Issuer
            CreditRating
                Underlying.Issuer.CreditRating.Duff_Phelps
                Underlying.Issuer.CreditRating.Fitch
                Underlying.Issuer.CreditRating.McCarthy_Crisanti_Maffei
                Underlying.Issuer.CreditRating.Moody
                Underlying.Issuer.CreditRating.S&P
    Product Code
        Underlying.Product Code.BB
        Underlying.Product Code.BB_UNIQUE
        Underlying.Product Code.CUSIP
        Underlying.Product Code.Common
        Underlying.Product Code.DTC
        Underlying.Product Code.DebtSeniority
        Underlying.Product Code.DesignatedPriority
        Underlying.Product Code.FED
        Underlying.Product Code.Feed
        Underlying.Product Code.GCFCusip
        Underlying.Product Code.ID_BB_ULTIMATE_PARENT_CO_NAME
        Underlying.Product Code.INTEX_NAME
        Underlying.Product Code.INTEX_TRANCHE_TYPE
        Underlying.Product Code.ISIN
        Underlying.Product Code.LoanXID
        Underlying.Product Code.Local
        Underlying.Product Code.Name

```

Underlying.Product Code.RGA  
Underlying.Product Code.Status  
Underlying.Security  
Underlying.Security Currency  
Underlying.Security Id  
Underlying.Security Name  
Accrual start date  
Amort  
Available Position  
Book  
Current Notional  
Current Notional (Base)  
Current Par  
Customized  
Family  
First CashFlow Date  
Index Factor 1  
Index Factor 2  
Initial Notional  
Is Exotic  
Issuer  
Issuer Full Name  
Maturity Date  
Need Resets  
Needs Termination  
Open Term  
Original Par  
Outstanding Notional  
Prd Description  
Product Comment  
Product Currency  
Product Extendedtype  
Product Extension  
Product Id  
Product Subtype  
Product Type  
Quote Name  
Rate Index 1  
Rate Index 2  
Security  
Security Currency

Security Id  
Security Name  
Seniority  
Ticker Name  
Trade Date Notional  
Underlying Security  
Underlying Security Id  
Underlying Security Name

## 9.4 Appendix 4 – Collateral Groups Fields

---

Asset Age  
CPR 12M  
CPR 1M  
CPR 3M  
CPR 6M  
CPR Life  
Cashflow Stratification  
Collateral Type  
Cumulative Loss Amount  
Cumulative Loss%  
Current Amort Term  
Current Balance  
Current Factor  
Current LTV  
Current WAC  
Current WAM  
Current WAS  
DSCR  
Delinq 30+  
Delinq 60+  
Delinq 90+  
Delinq Bankruptcies  
Delinq Foreclosures  
Delinq Reo  
Group Name  
Net Coupon  
Num Of Assets  
Original Amort Term  
Original Asset Balance  
Originator  
PSA 12M  
PSA 1M  
PSA 3M  
PSA 6M  
PSA Life  
Property Type Stratification  
Source  
State Stratification



## 9.5 Appendix 5 – Legal Entities Fields

---

ExchangeCode

Legal Entity

Role

LegalEntity

Attribute

Attribute.ACCOUNTING

Attribute.ALLOCATE\_TO\_CHILDREN\_ONLY

Attribute.ANNEX\_VER

Attribute.BAFI

Attribute.CEDEL

Attribute.CLS

Attribute.CREDITDOC(Y/N)

Attribute.DestinationBook

Attribute.EBA\_TIME

Attribute.EBS

Attribute.EUROCLEAR

Attribute.FASB

Attribute.FUND ID

Attribute.FUND LONG NAME

Attribute.FXConnect

Attribute.FX\_MARGIN

Attribute.Hypothetical Book

Attribute.ID\_BB\_ULTIMATE\_PARENT\_CO\_NAME

Attribute.INDUSTRY

Attribute.INTERNAL

Attribute.INTERNATIONAL

Attribute.INTEX

Attribute.ISDA

Attribute.NRTAX

Attribute.OptionF\_CustomerId

Attribute.OptionF\_DateOfBirth

Attribute.OptionF\_NationalId

Attribute.OptionF\_PartyId

Attribute.OptionF\_PlaceOfBirth

Attribute.RESIDENT

Attribute.REUTERS

Attribute.RIB

Attribute.SICOVAM

Attribute.STP  
Attribute.STP(Y/N)  
Attribute.Siren  
Attribute.SpotDays  
Attribute.TAX  
Comment  
Country  
External Ref  
Financial  
Full Name  
Holidays  
ID  
Inactive Date  
Parent  
Parent Short Name  
Roles  
Short Name  
Status  
User

## 9.6 Appendix 6 – Cash Flow and Compliance Test Fields

---

Actual

Definition

Pass/Fail

Sub Type

Test Name

Threshold

Type

## 9.7 Appendix 7 – Collateral Detail Fields

---

### CollateralDetail

ARM: Gross Margin/Spread  
ARM: Index  
ARM: Life Cap  
ARM: Life Floor  
ARM: Payment Cap  
ARM: Payment Floor  
ARM: Payment Reset Period  
ARM: Rate Formula  
ARM: Rate Reset Period  
Amort Type  
Appraisal Value  
Appraisal Value As Of  
Asset Age  
Asset Doc  
Asset Name  
Asset Purpose  
Asset Subtype  
Asset Type  
Balloon  
Borrower  
CPR 12M  
CPR 1M  
CPR 3M  
CPR 6M  
CPR Life  
CUSIP  
Cashflow Stratification  
City  
Collateral Name  
Country  
Coupon  
Cumulative Loss Amount  
Cumulative Loss%  
Current Amort Term  
Current Balance  
Current Factor  
Current LTV

Current WAC  
Current WAM  
Current WAS  
DSCR  
DSCR As Of  
Day Count  
Debt Service  
Debt Service As Of  
Default Flag  
Delinq 30+  
Delinq 60+  
Delinq 90+  
Delinq Bankruptcies  
Delinq Foreclosures  
Delinq Reo  
Delinquency Status  
Emerging Market  
Fico  
Fitch Industry Code  
Fix or Float  
Funded Status  
Gross Coupon  
Group Number  
Hi-Res Bond Type  
ISIN  
Insurer  
Intex Deal Type  
Is Balloon  
Issue Date  
Issuer  
Item Number  
Lein Position  
Loan Type  
LoanXID  
MSA  
Maturity Date  
Modification Code  
Moody's Industry Code  
NOI  
NOI As Of  
Net Coupon

Num Of Assets  
Occupancy  
Orig LTV  
Orig Term  
Original Balance  
Original IO  
Originator  
PIK  
PSA 12M  
PSA 1M  
PSA 3M  
PSA 6M  
PSA Life  
Paid-through Date  
Pay Frequency  
Property Code  
Property Type Stratification  
RATING: Moody Region  
Region  
Rem Term  
Remaining IO  
S&P Industry Code  
Servicer  
Source  
Sponsor  
State  
State Stratification  
Street Address  
Structured Finance Security  
Synthetic  
Tenant 1  
Tenant 2  
Tenant 3  
Tier 1  
Tier 2  
Underwritten Appr Value  
Underwritten Appr Value As Of  
Underwritten NOI  
Underwritten NOI As Of  
Unique Name  
Zip Code

CollateralGroup  
Group Name