

# TreppDerivative™

CALCULATE CMBX TOTAL RETURN  
AND MANAGE CMBS CREDIT DEFAULT SWAPS

## Trusted Intelligence. Market Clarity.

TreppDerivative provides a powerful and intuitive tool for creation, surveillance, and valuation of CMBX. Trusted as the exclusive cash flow provider for CMBX to Markit, TreppDerivative leverages its industry standard deal models and cutting edge technology to support credit analysis for CMBX and single name CMBS credit default swaps.

### USER-CENTRIC DESIGN


### ROBUST ANALYSIS

#### FEATURE FOCUS


- Alert functions for proactive surveillance
  - Cash versus synthetic pricing comparison
  - Seamless upload of existing CDS positions
  - Full integration with Trepp's CMBS Analytics and Markit's nightly CMBX prices
- Total return analysis based on your customized collateral scenarios
  - In depth analytics to support CMBX credit, valuation, and cash flow analysis
  - Portfolio features to track existing positions
  - Review loan and stratification reports for underlying reference obligations

Banks, investors, hedge funds, and CDO managers look to TreppDerivative to provide a comprehensive analysis to reduce operational risk, perform return and valuation analysis, stress test CMBX, and increase workflow efficiency.


BENEFITS




**Time** Conduct quick analysis to understand breakeven risk, book carry, and overall risk



**Transparency** Increase visibility into reference obligation related risk and pricing



**Accuracy** Analyze leveraged and fully funded total returns, valuations, and cash flows



**Insight** Run robust reports on portfolio positions and counterparty risk

## CMBX Total Return Calculator

An integrated process in TreppDerivative, the CMBX Return Calculator is designed to calculate leveraged or fully funded return as either a seller or buyer of protection. The CMBX Return Calculator enables users to view the impact of credit scenarios on total return and profit, model the impact of using leverage, compare hold-to-maturity versus limited horizon period analysis, and run price sensitivity analysis. Additionally, investors can view the breakeven spread for their investment analysis.

**TOTAL RETURN for CMBX.NA.AAA.9**

	2yr	3yr	4yr	5yr	6yr	7yr	8yr	9yr	10yr
more rates	25.75	18	10.5	3	-5	-13.25	-13.75	-14.5	-15.75
refresh rates									

Using Forward Curves (As of Sep 23 2016) where applicable

CMBX	CMBX.NA.AAA.9	Markit CMBX Price (09/23/16)	96
Fixed Fee (bps)	50	Markit CMBX Spread (09/23/16)	92

Settlement Date: 09/26/16    Discount Rate: Specify Index    1mo LIBOR    Rates     Delay CPR/

Vary Input: 10

calculate Scenario(opt'l) <empty>

reset Deal Assumptions(opt'l) <empty>

Prepayment Method Timeline

Prepayment Rate  not appli

CPR during YMC 0

CPR during Premium 0

CPR after Penalties 0

CDR Vector <empty>

CDR  0

**Return Calculator Inputs**    Methodology

Initial Notional: 10,000,000

Position: Sell Protection

Return Type: Leveraged

Pricing Input: Spread

Price: not app

Spread (bps): 92

Holding Period Type: # Months

Holding Period (# Months): 36

About Trepp, LLC

Trepp, LLC, founded in 1979, is a leading provider of data, analytics, and technology solutions to the global securities and investment management industries. Trepp specifically serves three key sectors: structured finance, commercial real estate, and banking to help market participants meet their objectives for surveillance, credit risk management, and investment performance. Trusted by the industry for the accuracy of its proprietary data, Trepp provides clients sophisticated, comprehensive models and analytics. Trepp is wholly owned by dmg Information, the business information division of Daily Mail and General Trust (DMGT).

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