Bloomberg Versa 10 Index

March 21, 2025

Bloomberg

Table of contents

Introduction

This document is intended to be read in conjunction with the Bloomberg Versa Indices Methodology; these documents collectively constitute the index methodology for the Indices.

The Bloomberg Versa 10 Index (the "Index") is the top-level index and is determined based on the following steps:

- Calculate the values of the sub-indices for equity, fixed income, gold, and dollar.
- Calculate the values of the multi-asset basket index composited by the above sub-indices.
- Calculate the values of the Index by applying a volatility targeting mechanism on the above multi-asset basket index.

These indices are calculated and published to the terminal per Table 1 below:

Table 1: Index Information

Index Ticker	Index Name	Type	Index Commencement Date
BVERSA10	Bloomberg Versa 10 Index	top level index	March 21, 2025
BVERSB10	Bloomberg Versa Basket 10 Index	multi-asset basket index	March 21, 2025
BCMVGC10	Bloomberg Gold 10% Index	commodity sub-index	March 21, 2025
BG10US10	Bloomberg US Dollar G10 10% Index	FX sub-index	March 21, 2025
B500DN10	Bloomberg Dynamic US 500 10% Index	equity sub-index	March 21, 2025
BTY1DN10	Bloomberg Dynamic US Treasury 10% Index	fixed income sub-index	March 21, 2025

Bloomberg Dynamic US 500 10% Index

The Bloomberg Dynamic US 500 10% Index is a volatility-targeted version of the Bloomberg US Large Cap Total Return Index. It aims to maintain a volatility level of 10% by adjusting exposures to the Bloomberg US Large Cap Total Return Index and the Bloomberg Versa USD Cash Rate Component. These adjustments are calculated according to Section 1 (Calculation of the Volatility Target Index) of the Bloomberg Versa Indices Methodology, using the parameters defined in the Index Specification below. There are no minimum liquidity requirements.

Index Specification

Cash Index	Bloomberg Versa USD Cash Rate Component
Determination Lag	0 (zero)
Direction Lag	1 (one)
Exposure Direction Type	Directional
High Close	The maximum value of all the 1-minute tick values retrieved from the field of HIGH for a Constituent during the period from and including the Snap Start Time to and excluding Market Close Time or Market Close Time Partial on the partial holidays. For the avoidance of doubt, this value is indicative only and cannot subsequently be restated.
High Snap	The maximum value of all the 1-minute tick values retrieved from the field of HIGH for a Constituent during the period from and including the Snap Start Time to and excluding the Snap End Time or Snap End Time Partial on the partial holidays. For the avoidance of doubt, this value is indicative only and cannot subsequently be restated.
Index Base Date	March 29, 2007
Index Base Value	1000.0000
Index Business Day	Any day that the New York Stock Exchange is open for trading.
Index Currency	USD
Input Price Lag	1 (one)
Low Close	The minimum value of all the 1-minute tick values retrieved from the field of LOW for a Constituent during the period from and including the Snap Start Time to and excluding Market Close Time or Market Close Time Partial on the partial holidays. For the avoidance of doubt, this value is indicative only and cannot subsequently be restated.
Low Snap	The minimum value of all the 1-minute tick values retrieved from the field of LOW for a Constituent during the period from and including the Snap Start Time to and excluding the Snap End Time or Snap End Time Partial on the partial holidays. For the avoidance of doubt, this value is indicative only and cannot subsequently be restated.
Market Close Time	16:00:00 EST
Market Close Time Partial	13:00:00 EST
Maximum Target Exposure	100%
Minimum Liquidity Requirement	No liquidity requirement for the Index.
Minimum Target Exposure	-1 (minus one)
Momentum Time Difference	20
Rebalance Business Days	Index Business Days
Risk Factor Scalar	truVol Smoothed Risk Scalar
RV Lookback Window	5
RV Average Window	20
RV Sigma Window	252

Sign of Direction	-1 (minus one)
Signal Set	Signal1 and Signal2
Signal1	Negative Momentum
Signal2	Increasing Volatility
Snap Start Time	09:31:00 EST
Snap End Time	15:30:00 EST
Snap End Time Partial	12:30:00 EST
Snap Switch Date	August 21, 2024
Synthetic High Low Level Change Date	September 11, 2019
Target Exposure Type	Target Exposure with Risk Factor Scalar
Transaction Cost Rate	0.01%
Underlying Index	B500T Index (Bloomberg US Large Cap Total Return Index)
Volatility Adjustment Factor	truVol Intraday Volatility Adjustment
Volatility Adjustment Factor Lag	1 (one)
Volatility Calculation Type	Intraday High Low Volatility
Volatility Target	10%
Volatility Target Index Type	Type III
Volatility Value Selection	Average

The calculation of the Underlying Index follows the methodology specified in the Bloomberg US Domestic Equity Indices Methodology.

Note 1: Equity Index Restatement
Please note that should the equity index be restated; the real-time ticks will not be updated accordingly. Hence, the subsequent values of the volatility and the Actual Exposure of the Underlying Index will not be amended once they are being calculated.

Note 2: Backtest Assumptions
The High Close and Low Close values of the Underlying Index during the period prior to the Synthetic High Low Level Change Date are derived using the formulae outlined in Appendix III (Synthetic High/Low Levels) of the Bloomberg Versa Indices Methodology, where the Base Index is SPY US Equity and the Target Index is the Underlying Index.

The High Close and Low Close values of the Underlying Index during the period from and including the Synthetic High Low Level Change Date to and excluding Snap Switch Date are the values retrieved from the terminal field PX_HIGH and PX_LOW respectively after the Market Close Time.

The High Snap and Low Snap values of the Underlying Index during the period prior to Snap Switch Date are the values retrieved from the terminal field PX_HIGH and PX_LOW respectively after the Market Close Time.

Partial holidays are treated as normal trading days for price selection during the period prior to Snap Switch Date.

Bloomberg Versa USD Cash Rate Component Calculation

This section is intended to be read in conjunction with the Bloomberg Cash Deposit Indices Methodology; these documents collectively constitute the index methodology for the cash rate component.

The Bloomberg Versa USD Cash Rate Component aims to reflect the performance of investing in a sequence of cash positions at a specified Cash Rate. There are no minimum liquidity requirements.

Cash Rate Component Specification

Cash Rate	The relevant rate as specified under the column 'Cash Rate' in Table 2.
Constituent Currency	USD
Days Per Year	360
Fixings	see table below

Fixing	Pricing Source	FX Data Source
Closing Fixing	The official price as sourced from the Bloomberg Professional Services data field "PX_LAST"	BISL Derived FX Data Methodology BFIX London 4 P.M.

Index Base Date	December 31, 1991
Index Base Value	100.0000
Index Business Days	Monday to Friday
Index Currency	USD
Interest Reset Days	Pricing Days
Pricing Days	A day subject to the relevant calendar as specified under the column 'Pricing Calendar' in Table 2.

Table 2: Cash Rate

Cash Component	Pricing Calendar	Cash Rate	Original Cash Rate Ticker	Rate Covered Period
Bloomberg Versa USD Cash Rate Component	New York Bank Holiday	USD 3 Month LIBOR + 0bps	US0003M Index	Prior to and excluding December 21st, 2021
	SOFR Publishing Date	SOFR + 25bps	SOFRRATE Index	From and including December 21st, 2021

Bloomberg Dynamic US Treasury 10% Index

The Bloomberg Dynamic US Treasury 10% Index aims to reflect the performance of a portfolio allocating weights between 10-Year US treasury futures and 2-Year US treasury futures, targeting a volatility level of 10%. These allocation are calculated according to Section 2 (Calculation of the Dynamic Treasury Volatility Target Index) of the Bloomberg Versa Indices Methodology, using the parameters defined in the Index Specification below. There are no minimum liquidity requirements.

Index Specification

Constituents	The set of indices listed Table 3.
Constituent Currency	USD
Curve Lookback Window	100
Curve Sigma Window	20
Exchange	Chicago Board of Trade (CBOT)
Exposure Direction Type	Directional
Exposure Weight Ceiling	The relevant parameter as specified under the column Exposure Weight Ceiling' in Table 3.
Exposure Weight Floor	The relevant parameter as specified under the column 'Exposure Weight Floor' in Table 3.
High/Low Close	The relevant parameter as specified in Table 5.
High/Low Snap	The relevant parameter as specified in Table 5.
Index Base Date	April 1, 2002
Index Base Value	1000.0000
Index Business Days	A day on which the relevant Exchange is scheduled to be open for trading and on which settlement activities are performed for futures contracts on the Constituents.
Index Currency	USD
Market Close Time	15:00:00 (T) EST
Momentum Time Difference	5
Rapid Risk Volatility Ceiling	The relevant parameter as specified under the column 'Rapid Risk Volatility Ceiling' in Table 3.
Rebalance Business Days	Index Business Days
SignalType1	Yield Momentum
SignalType2	Curve Momentum
Snap Start Time	15:00:00 (T-1) EST
Snap End Time	14:30:00 (T) EST
Snap Switch Date	July 12, 2023
Transaction Cost	0.015%
Volatility Target	10%
Yield Component	The relevant component as specified under the column 'Yield Component' in Table 4.
Yield Lookback Window	100
Yield Sigma Window	20

Table 3: Constituents

Index	Constituent Tag	Constituent	Constituent Ticker	Rapid Risk Volatility Ceiling	Exposure Weight Ceiling	Exposure Weight Floor
Bloomberg Dynamic US Treasury 10% Index	Long	Bloomberg 10Y UST Note Future Tracker 1DR ER Index	BTSITY1E	1.5		0
	Short	Bloomberg 2Y UST Note Future Tracker 1DR ER Index	BTSITU1E	3.0	0	

Table 4: Yield Components

Constituent Tag	Constituent Currency	Yield Component	Yield Component Ticker
Long	USD	US Treasury Yield Curve Rate T Note Constant Maturity 10 Year	H15T10Y
Short	USD	US Treasury Yield Curve Rate T Note Constant Maturity 2 Year	H15T2Y

Table 5: Tracker High and Low Values Sources

Values Tag	Index Ticker	Index Name	Value Start Date	Related Constituent
High Close	BSCHTU1E	Bloomberg 2Y UST Note Future Tracker 1DR ER Index – Close High	January 1, 2014	Bloomberg 2Y UST Note Future Tracker 1DR ER Index
Low Close	BSCLTU1E	Bloomberg 2Y UST Note Future Tracker 1DR ER Index - Close Low	January 1, 2014	Bloomberg 2Y UST Note Future Tracker 1DR ER Index
High Snap*	BS2HTU1E	Bloomberg 2Y UST Note Future Tracker 1DR ER Index - 1430 EST Snap High	July 12, 2023	Bloomberg 2Y UST Note Future Tracker 1DR ER Index
Low Snap*	BS2LTU1E	Bloomberg 2Y UST Note Future Tracker 1DR ER Index - 1430 EST Snap Low	July 12, 2023	Bloomberg 2Y UST Note Future Tracker 1DR ER Index
High Close	BSCHTY1E	Bloomberg 10Y UST Note Future Tracker 1DR ER Index – Close High	January 1, 2014	Bloomberg 10Y UST Note Future Tracker 1DR ER Index
Low Close	BSCLTY1E	Bloomberg 10Y UST Note Future Tracker 1DR ER Index - Close Low	January 1, 2014	Bloomberg 10Y UST Note Future Tracker 1DR ER Index
High Snap*	BS2HTY1E	Bloomberg 10Y UST Note Future Tracker 1DR ER Index - 1430 EST Snap High	July 12, 2023	Bloomberg 10Y UST Note Future Tracker 1DR ER Index
Low Snap*	BS2LTY1E	Bloomberg 10Y UST Note Future Tracker 1DR ER Index - 1430 EST Snap Low	July 12, 2023	Bloomberg 10Y UST Note Future

				Tracker 1DR ER Index

* Before Value Start Date in Table 5, the High Close and Low Close values were applied as the proxies for the High Snap and Low Snap respectively in the backtest.

Bloomberg US Dollar G10 10% Index

The Bloomberg US Dollar G10 10% Index is a volatility-targeted version of the Bloomberg US Dollar G10 Excess Return Index. It aims to maintain a volatility level of 10% by adjusting exposures of the Bloomberg US Dollar G10 Excess Return Index. These adjustments are calculated according to Section 1 (Calculation of the Volatility Target Index) of the Bloomberg Versa Indices Methodology, using the parameters defined in the Index Specification below. There are no minimum liquidity requirements.

Index Specification

Deduction Factor	0%
Index Base Date	March 29, 2007
Index Base Value	1000
Index Business Day Calendar	The business days when BG10USDE Index is calculated.
Index Currency	USD
Initial Underlying Index Volatility	0.045
Input Price Lag	1 (one)
Lag for Determination Date	1 Index Business Day immediately preceding to a Rebalance Date
Lambda	• Short-Term Lambda: 0.94 • Long-Term Lambda: 0.97
Maximum Target Exposure	150%
Minimum Liquidity Requirement	No liquidity requirement for the Index.
Minimum Target Exposure	0%
Rebalance Frequency	Daily
Return Type	Excess Return
Target Exposure Type	Standard Target Exposure
Transaction Cost Rate	0.02%
Underlying Index	BG10USDE Index (Bloomberg US Dollar G10 Excess Return Index)
Volatility Calculation Type	Exponentially Weighted Moving Average ("EWMA") Volatility
Volatility Target	10%
Volatility Target Index Type	Type I
Volatility Value Selection	Highest

The calculation of BG10USDE Index follows the methodology specified in the Bloomberg G10 US Dollar FX Forward Indices Methodology.

Bloomberg Gold 10% Index

The Bloomberg Gold 10% Index is a volatility-targeted version of the Bloomberg Gold Subindex. It aims to maintain a volatility level of 10% by adjusting exposures of the Bloomberg Gold Subindex index. These adjustments are calculated according to Section 1 (Calculation of the Volatility Target Index) of the Bloomberg Versa Indices Methodology, using the parameters defined in the Index Specification below. There are no minimum liquidity requirements.

Index Specification

Deduction Factor	0%
Index Base Date	March 29, 2007
Index Base Value	1000
Index Business Day Calendar	The business days when BCOMGC Index is calculated.
Index Currency	USD
Initial Underlying Index Volatility	0.15
Input Price Lag	1 (one)
Lag for Determination Date	1 Index Business Day immediately preceding to a Rebalance Date
Lambda	• Short-Term Lambda: 0.94 • Long-Term Lambda: 0.97
Maximum Target Exposure	100%
Minimum Liquidity Requirement	No liquidity requirement for the Index.
Minimum Target Exposure	0%
Rebalance Frequency	Daily
Return Type	Excess Return
Target Exposure Type	Standard Target Exposure
Transaction Cost Rate	0.02%
Underlying Index	BCOMGC Index (Bloomberg Gold Subindex)
Volatility Calculation Type	Exponentially Weighted Moving Average ("EWMA") Volatility
Volatility Target	10%
Volatility Target Index Type	Type I
Volatility Value Selection	Highest

The calculation of BCOMGC Index follows the methodology specified in the BCOM Methodology.

Bloomberg Versa Basket 10 Index

The Bloomberg Versa Basket 10 Index aims to reflect the performance of a portfolio comprising the following sub-indices:

- Bloomberg Dynamic US 500 10% Index
- Bloomberg Dynamic Treasury 10% Index
- Bloomberg Dollar G10 10% Index
- Bloomberg Gold 10% Index

Its calculation follows the Section 3 (Calculation of the Multi-Asset Basket Index) of Bloomberg Versa Indices Methodology, using the parameters defined in the Index Specification below. There are no minimum liquidity requirements.

Index Specification

Fixings

Fixing	Price Source
Closing Fixing	Bloomberg Indices

Funded Constituents: The relevant constituent as specified under the column 'Constituent' in Table 6.

Index Base Date: March 30, 2007

Index Base Value: 1000.0000

Index Business Days: The business days that are not a holiday of New York Exchange and Chicago Board of Trade (CBOT), and when BG10USDE Index and BCOMGC Index are calculated.

Index Currency: USD

Maximum Target Exposure: The relevant date as specified under the column "Maximum Target Exposure" in Table 6.

Observation Business Days

Data Field	Observation Business Days
Index	Index Business Days
Price	Index Business Days
Spot Exchange Rate	n/a
Multi-Asset Signal	Index Business Days

Observation Lag

Data Field	Observation Lag
Index	1 (one)
Price	1 (one)
Spot Exchange Rate	n/a

Price Currency: USD

Pricing Days: The business days with respect to each Constituent.

Rebalance Business Days: Index Business Days

Rebalance Length: The number of days as specified under the column 'Rebalance Length" in Table 6.

Rebalance Start Date: The last Rebalance Business Day of each month.

Target Exposure Type: Standard Target Exposure

Transaction Cost Factor: The relevant factor as specified under the column 'TCR' in Table 6.

Unfunded Constituents: n/a

Units Determination Business Days: Index Business Days

Units Determination Lag: 0 (zero)

Weighting Scheme: The relevant Weighting Scheme as specified under the column 'Weighting Scheme' in Table 6.

Table 6: Basket Parameters

Constituent Name	Constituent Ticker	Rebalance Length	Fixed Weights	TCR	Weighting Scheme
Bloomberg Dynamic US 500 10% Index	B500DN10	1 (one) day	100%	0.01%	Fixed Weighting
Bloomberg Dynamic Treasury 10% Index	BTY1DN10	1 (one) day	60%	0.015%	Fixed Weighting
Bloomberg Dollar G10 10% Index	BG10US10	1 (one) day	20%	0.02%	Fixed Weighting
Bloomberg Gold 10% Index	BCMVGC10	5 (five) days	20%	0.02%	Signal-Based Weighting

Bloomberg Versa 10 Index

The Bloomberg Versa 10 Index is a volatility-targeted version of the Bloomberg Versa Basket 10 Index. It aims to maintain a volatility level of 10% by adjusting exposures to the Bloomberg Versa Basket 10 Index. These adjustments are calculated according to Section 1 (Calculation of the Volatility Target Index) of the Bloomberg Versa Indices Methodology, using the parameters defined in the Index Specification below. There are no minimum liquidity requirements.

Index Specification

Day Count Convention	360
Deduction Factor	0.5%
Index Base Date	June 25, 2007
Index Base Value	1000
Index Business Day Calendar	The business days when the Underlying Index is calculated.
Index Currency	USD
Initial Underlying Index Volatility	0.10
Input Price Lag	1 (one)
Lag for Determination Date	1 Index Business Day immediately preceding to a Rebalance Date
Lambda	• Short-Term Lambda: 0.94 • Long-Term Lambda: 0.97
Maximum Target Exposure	150%
Minimum Liquidity Requirement	No liquidity requirement for the Index.
Minimum Target Exposure	0%
Rebalance Frequency	Daily
Return Type	Excess Return
Transaction Cost Rate	0.0%
Underlying Index	Bloomberg Versa Basket 10 Index
Volatility Calculation Type	Exponentially Weighted Moving Average (“EWMA”) Volatility
Volatility Target	10%
Volatility Target Index Type	Type I
Volatility Value Selection	Highest

Appendix I: Glossary

Market Disruption Event	A situation wherein markets cease to function in a regular manner. See Appendix II: Market Disruptions.
Salt Financial LLC	Salt Financial LLC is the designer of the proprietary truVol® Risk Control Engine.
truVol Intraday Volatility Adjustment	Provided by Salt Financial LLC, the values are utilized to adjust the calculated Underling Index volatility.
truVol Smoothed Risk Scalar	Provided by Salt Financial LLC, the values are utilized to adjust the Underlying Index exposures.

Appendix II: Market Disruptions

Please refer to the BISL Benchmark Procedures Handbook available here.

In the event that either the truVol Smoothed Risk Scalar or the truVol Intraday Volatility Adjustment is unavailable at the scheduled Index calculation time, a fallback mechanism will be applied. In such cases, the Index will use a predetermined value of 1 (one) to replace the missing data point, ensuring continuity in the calculation process. This predetermined value means that there will be no adjustments in the calculated volatility values and exposures.

Appendix III: ESG Disclosures

These Indices do not take into account any ESG factors or pursue any ESG objectives. Please refer to the Bloomberg Versa Indices Methodology for ESG disclosures.

Disclaimer

Take the next step.

For additional information, please contact the Bloomberg Help Desk or log into the Customer Service Center at https://service.bloomberg.com
bloomberg.com/indices

Beijing
+86 10 6649 7500

Dubai
+971 4 364 1000

Frankfurt
+49 69 9204 1210

Hong Kong
+852 2977 6000

London
+44 20 7330 7500

Mumbai
+91 22 6120 3600

New York
+1 212 318 2000

San Francisco
+1 415 912 2960

São Paulo
+55 11 2395 9000

Singapore
+65 6212 1000

Sydney
+61 2 9777 8600

Tokyo
+81 3 4565 8900