Interest Rate Market Data Products User Manual

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1 VERSION CONTROL

Version	Author	Date	Reason for Change
0.1	Maryke Vreulink and Haseel Bhima	1 November 2013	Initial Document Publication
0.2	Haseel Bhima and Khuduga Montwedi	1 September 2014	MTM changes, addition of new fields and update of MTM files.
0.3	Mark Randall	25 September 2014	Insertion of New Credit Indices layout (email only)
0.4	Tshepo Modise	18 August 2016	Removal of RMBX section and various amendments on field details
1.0	Tshepo Modise	08 September 2016	Addition of the new fields in the Trade Detail Report a. Companion b. Spread
1.0	Tshepo Modise	20 March 2017	Added new Base CPI field to Bond Data product
2.0	Neil Vendeiro	25 September 2018	Added new Bond ETP to Bond Data Product (section 5.1.3)
3.0	Tshepo Modise	July 2019	Updated context notes for MTM
4.0	Tshepo Modise	August 2019	Added new Clean Price field to Trade Detail data product
5.0	Mpiti Matsoso and Neil Vendeiro	Nov May 2020	Addition of Bond Non- Resident data product



2 DISCLAIMER

This document is strictly for informational purposes solely for developing or operating systems for your use that interact with the market data systems of the JSE. The JSE reserves the right to withdraw, modify, or replace the specification (or any part thereof) at any time by means of a notice to contracted clients.

To the extent allowed by law, JSE does not (expressly, tacitly or impliedly) guarantee or warrant the availability, sequence, accuracy, completeness, reliability or any other aspect of any of the information contained in, linked to or distributed through this specification, or that the information contained therein is up to date.

3 INTRODUCTION

The aim of the JSE is to provide subscribers with Spot Bonds market statistics and reference data on a regular basis by means of a number of different data products that provide different views of the market activity.

Each subscriber can decide the type of data product(s) required from the standard offerings available and as per the fees listed on the JSE's Market Data price list.

Subscribers can elect to receive their reports via File Transfer protocol (FTP) via the JSE's Information Delivery Portal (IDP), the JSE premier FTP Server or for select products via email as well.

Contact the Market Data department via mdclients@jse.co.za for subscription queries/requests.

This document outlines the various connectivity requirements, which includes the delivery protocols for the access and retrieval of data files, as well as the layout of the specific data products.

The following data products are covered in this document.

Data Product	FTP Folder Location	
2pm Zeros - CSV / XLS	Zerocurve 2pm	
3pm Zeros - CSV / XLS	Zerocurve 3pm	
Zero Curve - CSV / XLS	Zerocurve Yield	
Linear Swap - XLS	Linear Swap	
Yield Curve - CSV / XLS	Yield Curve	
MTM Detailed - CSV / XLS(MTM Detailed	
MTMT+1 - CSV / XLS	MTMT+1	
MTM Value Today - CSV / XLS	MTMVT	
UTMTM - CSV / XLS	UTMTM	
UTMTMT+1 - CSV / XLS	UTMTMT +1	
UTMTM Value Today - CSV / XLS	UTMVtoday	
CILI - CSV / XLS	CILI	
Constituents - CSV / XLS	Constituents	
Daily Report	Daily Report	
TRI - CSV	TRI	
Bond Data - CSV / XLS	Bonddata File	
Trade Detail CSV / XLS	Turnover Stats	



Instrument Detail CSV / XLS	Turnover Stats
Member/Client Position Detail CSV / XLS	Turnover Stats
Bond Non-Resident CSV / XLS	Bonds Non-Resident

4 FTP SITE ACCESS AND FILE LOCATIONS

4.1 FTP SITE AND FOLDERS

The data product files are made available on the Bond FTP site, which is special section of the JSE Information Delivery Portal (IDP). Access to the JSE Information Delivery Portal (IDP) is allowed via different protocols.

Refer to the IDP Connectivity document: https://www.jse.co.za/services/market-data/technical-documents for details.

4.2 ACCESS TO IDP SERVER

Access to the IDP FTP server is granted as per the following process.

- 1. Once you have successfully negotiated your data subscription with the Market Data department, an access instruction will be issued to configure access.
- 2. A representative from the Customer Services department will provide you with your IDP sign-on and dataset name before 11am on the day you go live.
- 3. For security governance reasons, a representative from the Information Technology division will provide you with your Password.
- 4. A member of the Market Data department will contact you to confirm receipt of the dataset, user Id and password.
- 5. The onus is on you to test as soon as you have received the above-mentioned information to ensure that you will gain access to the system.

Should you experience any problems relating to the information communicated to you or the actual testing of access to the data file(s), please contact the following contact number(s) for assistance:

Customer Support 011 520 7777 / 7799

5 RETRIEVING DATA PRODUCT FILES

All data product files available on the Bond FTP site on the IDP server can be retrieved as follows:

- > ftp bondftp.jse.co.za 196.216.152.24 / Internet 41.208.2.229
- supply user name and password
- cd "report"
- > cd csv / xls

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> get <file name>



ZERO CURVES

5.1 ZERO CURVE

The JSE Zero-Coupon Yield Curves are a daily suite of three yield curves. One to cover the nominal bond market, one the nominal swaps market, and one to cover the inflation-linked bond market. Each curve will be a "perfect fit" curve, in the sense that each curve will exactly price back all of its inputs.

5.1.1 Report Detail

The Zero Curve Report is a report that gives 3 yield curves which are based on:

- Bonds Curve: This curve provides the bonds which are used as inputs along with their Mark to market rate.
- **Swaps Curve**: This curve provides the swaps and FRAs which are used as inputs along with their mark to market rate.
- Real Bonds Curve: This curve provides the bonds which are used as inputs along with their Mark to market rate.

These curves can be used to discount cash flows.

This report is currently disseminated daily at 14h30, 15h30 and 17h30 (South African Times), and is available via the JSE IDP (Information Delivery Portal) or via email.

The three reports can respectively be retrieved by following the below steps mentioned in point 5.

5.1.2 Report Field Descriptions

Worksheet 1: Zeroes

DATE The dates of the dissemination run, in the

format CCYY/MM/DD.

BOND CURVE (NACC)

Nominal zero-coupon bond yields which are Nominal Annual

Compounded Continuously (NACC).

SWAP CURVE (NACC) Nominal zero-coupon swap yields which are Nominal Annual

Compounded Continuously (NACC).

REAL CURVE (NACC) Real zero-coupon swap yields which are Nominal Annual

Compounded Continuously (NACC).

Worksheet 2: Compact

ZERO CURVES

PERIOD The period of how far the corresponding date is from the valuation

date.



NOMINAL SWAP (NACQ)

Nominal zero-coupon bond yields which are Nominal Annual

Compounded Quarterly (NACQ).

NOMINAL BOND (NACS)

Nominal zero-coupon bond yields which are Nominal Annual

Compounded Semi-Annually (NACS).

REAL BOND (NACS)

Real zero-coupon bond yields which are Nominal Annual

Compounded Semi-Annually (NACS).

PAR/SWAP CURVES

PERIOD The period of how far the corresponding date is from the valuation

date.

NOMINAL SWAP (NACQ) Par swap yields calibrated off the Nominal Swap Zero Curve.

Compounded NACQ.

NOMINAL BOND (NACS) Par swap yields calibrated off the Nominal Bond Zero Curve.

Compounded NACS.

REAL BOND (NACS) Par swap yields calibrated off the Real Bond Zero Curve.

Compounded NACS.

Worksheet 3: Inputs

BOND CURVE

CODE The code or name of the bond used in the Nominal Bond Curve

inputs.

MTM The Mark To Market yield of the corresponding bond.

SWAP CURVE

CODE The code or name of the swaps used as Nominal Swap Curve

inputs.

MTM The MTM swap rate.

REAL CURVE

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CODE The code or name of the bonds used as Real Bond Curve inputs.

MTM The MTM yield of the corresponding bond.



5.1.3 Record Layout

Excel Report(s)

Report Name	ZeroCurve <ccyymmdd>.xls</ccyymmdd>				
Sheet Name	Zeroes				
	Heading				
	Actual/ <pattern>/(Example)</pattern>		Cell		
Column					
headings	(Bond Curve (NACC))	A1-D1			
	Detail				
Field Name	Field Name Cells Field Type				
Date		>=A2	Date time		
Bond Curve (NACC)		>=B2	Float		
Swap Curve (NACC) >=C2 Float			Float		
Real Curve (NACC) >=D2 Float			Float		

Sheet Name	Compact				
	Heading				
	Actual/ <pattern>/(Example)</pattern>		Cell		
Column	(Zero Curves - Nominal Swap				
headings	(NACQ))		A1-K2		
	Detail				
Field Name	Field Name Cells Field Type				
Zero Curves - Perio	Zero Curves - Period >=A3 Varchar(20)				
Zero Curves - Date	Zero Curves - Date >=B3 Date time				
Zero Curves - Nom	Zero Curves - Nominal Swap (NACQ) >=C3 Float				
Zero Curves - Nom	Zero Curves - Nominal Bond (NACS) >=D3 Float				
Zero Curves - Rea	Zero Curves - Real Bond (NACS) >=E4 Float				
Par/Swap Curves - Period >			Varchar(20)		
Par/Swap Curves - Date >=H3 Date time			Date time		
Par/Swap Curves - Nominal Swap (NACQ)		>=I3	Float		
Par/Swap Curves - Nominal Bond (NACS)		>=J3	Float		
Par/Swap Curves - Real Bond (NACS) >=K3 Float			Float		

Sheet Name	Inputs				
	Heading				
	Actual/ <pattern>/(Example) Cell</pattern>				
Column					
headings	(Bond Curve - Code)		A1-H2		
Detail					
Field Name	Field Name Cells Field Type				
Bond Curve - Code		>=A3	Varchar(20)		
Bond Curve - MTM >		>=B3	Float		
Swap Curve - Code >=D3 Varchar(20)			Varchar(20)		



Swap Curve - MTM	>=E3	Float
Real Curve - Code	>=G3	Varchar(20)
Real Curve - MTM	>=H3	Float

5.2 LINEAR SWAP CURVE

5.2.1 Report Detail

The linear swap curve reports represents a linear interpolation of the par swap rates and the FRA rates used to construct the nominal swap curve.

This report is currently disseminated daily at 17h30 and is available via the JSE IDP (Information Delivery Portal) and email.

5.2.2 Report Field Descriptions

Worksheet 1: Inputs

DATE Dissemination date - The date of the dissemination run, in

the format CCYY/MM/DD.

CODE The code indicating the type of information contained in the

record disseminated - e.g.: 1ddm.

MtM The Mark to Market rate for the corresponding code.

Worksheet 2: Outputs

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VALUATION DATE VALUATION DATE - The date of the valuation, in the format

DD-MM-YY.

PERIOD (years) The period in years of how far the dissemination date is from

the valuation date.

DATE The date of the valuation in the format DD/MM/YY.



5.2.3 Record Layout

Excel Report(s)

Report Name	LinearSwapCurve_ <ccyymmdd>.xls</ccyymmdd>			
Sheet Name	In	puts		
Heading				
	Actual/ <pattern>/(Example) Field Type Cell</pattern>			
Report Title				
Report Date	<dd-mmm-yy></dd-mmm-yy>	datetime	B1	
Column				
headings	(MTM) A2-B2			
Detail				
Field Name	Field Name Field Type Cells			
Code	varchar(10) A3-A31			
MtM	float B3-B31			

Sheet Name	Outputs			
Heading				
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell	
Report Title				
Report Date	<dd-mmm-yy></dd-mmm-yy>	datetime	C1	
Column				
headings	(Date)		A2-C2	
	Detail			
Field Name		Field Type	Cells	
Period (years)		datetime	A3-A130	
Date		datetime	B3-B130	
Spot Rates		float	C3-C130	

Sheet Name	Outputs			
Heading				
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell	
Report Title				
Report Date	<dd-mmm-yy></dd-mmm-yy>	datetime	C1	
Column				
headings	(Date)		A2-C2	
	Detail			
Field Name		Field Type	Cells	
Period (years)		datetime	A3-A130	
Date		datetime	B3-B130	
Spot Rates		float	C3-C130	



MARK TO MARKET (MTM) REPORTS

MTM is used to value bond portfolios and is a representation of the Mark to Market at various times on a daily basis. ,the MTM can be used as a closing price.

There are six MTM Reports run on a daily basis, only differing in settlement dates, and run at different times during the day.

Three MTM Reports showing 17:00 data, are disseminated and available to clients at 17:30 and will include MTM Detailed, MTM T+1 and MTM Value Today.

The other MTM reports are UTMTM (Unit Trust MTM) Reports, showing 15:00 data, disseminated and available to clients at 15:30, and will include UTMTM, UTMTM T+1, UTMTM Value Today.

Reports will be available in both xls and csv format.

5.3 MTM DETAILED

5.3.1 Report Detail

The MTM Detailed report is a report showing all cash flows discounted back from Maturity date to Settlement date, and assumes all valuations for T+3 settlement. It will exclude any trades which were reported and cancelled on the same day, but will include any back dated trades reported on the day.

This report consists of the MTM, BEASSA TRI (Total Return Index), COBI TRI (Credit Indices) and the Yield Curve. All other MTM reports will only consist of the MTM data, excluding BEASSA TRI, COBI TRI and Yield Curve data.

The report will be available at 17:30 daily.

5.3.2 Report Field Descriptions

Worksheet 1: MTM

TRADE DATE

The date the report is relevant for

SETTLEMENT The date for which all instruments are valued. All cash flows

are discounted back from maturity date to this date

BOND CODE The short code for each listed instrument

ISIN CODE The unique ISIN code for each listed instrument. Will be a ZAG

code

MATURITY The date the instrument will redeem. (This is the date from

which the maturity cash-flow will be discounted from)

COUPON Interest rate payable by the issuer to investors

COMPANION BOND The short code of a more liquid companion instrument to assist

in the re-valuation of parallel shifts in the yield curve. Usually



governments bonds will be used as the companion bond. (Not all instruments will have a companion bond)

BP (Basis-point) SPREAD The spread above the companion bond which denotes the

credit component of the instruments yield

MTM The marked to market yield of the listed instrument

ALL IN PRICE The price of the listed bond based on the mark to market yield

including interest, all based on a nominal of 100 bonds

CLEAN PRICE The price of the listed bond based on the mark to market yield

excluding interest, all based on a nominal of 100 bonds

ACCRUED INTEREST The interest due to the buyer or seller. All based on nominal of

100 bonds

YEAR HIGH YIELD The highest mark to market yield for the year

YEAR LOW YIELD The lowest mark to market yield for the year

RETURN (YTD) Basis point change since the beginning of the year

DURATION Measures the price volatility and interest rate sensitivity of the

instrument

MODIFIED DURATION The duration of a financial asset that consists of fixed cash

flows, for example a bond, is the weighted average of the times until those fixed cash flows is received. The duration also measures the price sensitivity to yield, the rate of change of price with respect to yield or the percentage change in price for

a parallel shift in yields.

DELTA The ratio comparing the change in the price of the instrument

RAND PER BASIS POINT

The rand value change of R1 million bonds should the yield of

the instrument move one basis point (0.01%)

CONVEXITY A measure of the sensitivity of the duration of a bond to

changes in interest rates. The higher the convexity the more

sensitive the bond price to the change in IR's.

YIELD VOLATILITY For future use (Column currently not populated/used)

MTM CHANGE

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Why the MTM changed

MTM PROCESS METHODOLOGY The methodology/process that the exchange used to value the

bond for MTM purposes

LAST TRADE DATE

The last date the specific instrument traded

LAST MTM CHANGE DATE

The last date the MTM for a particular instrument changed



YIELD/PRICE INDICATOR Indicates whether or not the instrument is traded as price or yield

INDEX RATIO Provide the multiplicative factor used to calculate inflation linked

bond prices

BASE CPI Business to provide definition

REFERENCE CPI Business to provide definition

Worksheet 2: BEASSA TRI

VALUATION DATE (t)

The date the report is relevant for

SECTOR The sub index short code. For example ALBI, GOVI, OTHI, or

as ALBI Term splits

CLEAN PRICE INDEX

The index level of the sub index/sector (for example GOVI)

on valuation date based on clean price index methodology

(excluding interest)

INTEREST YIELD Interest component (accrued interest due to the clean price

index).

Refer to clean price index methodology

TOTAL RETURN INDEX

The index level of the sub index/sector (for example GOVI)

on valuation date based on the BEASSA TRI index

methodology

TRI AVERAGE YIELD The average yield of the sub index/sector of all constituents

MODIFIED DURATION The duration of a financial asset that consists of fixed cash

flows, for example a bond, is the weighted average of the times until those fixed cash flows is received. The duration also measures the price sensitivity to yield, the rate of change of price with respect to yield or the percentage change in

price for a parallel shift in yields.

CONVEXITY A measure of the curvature in the relationship between bond

prices and bond yields that demonstrates how the duration of

a bond changes as the interest rate changes

TOTAL RETURN MtD

The return of the sub index/sector for the month to date as

based on the TRI

TOTAL RETURN YtD The return of the sub index/sector for the year to date as

based on the TRI



TOTAL RETURN YonY

The return of the sub index/sector for the year on year as

based on the TRI

K FACTOR 'DATE' A rebalancing factor on valuation date which caters for

coupons/values vested in the sub sector/index

K FACTOR 'DATE + 1' A rebalancing factor on valuation for the following day which

caters for coupons/values vested in the sub sector/index

Worksheet 3: BEASSA YIELD CURVE

DATE The date the report is relevant for in the format CCYY/MM/DD

TIME TO MATURITY Time between when the bond was issued and when it

matures (maturity date), at which time the issuer must

redeem the bond by paying the principal

YIELD TO MATURITY

The rate of return anticipated on a bond if it is held until the

maturity date. (It is assumed that all coupons are reinvested

at the same rate)

Worksheet 4: CREDIT INDICES

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VALUATION DATE (t)

The date the report is relevant for

SECTOR The sub index short code. For example ALBI, GOVI, OTHI, or

as ALBI Term splits

TOTAL RETURN MtD The return of the sub index/sector for the month to date as

based on the TRI

TOTAL RETURN YtD The return of the sub index/sector for the year to date as

based on the TRI

TOTAL RETURN YonY The return of the sub index/sector for the year on year as

based on the TRI

K FACTOR 'DATE' A rebalancing factor on valuation date which caters for

coupons/values vested in the sub sector/index

K FACTOR 'DATE + 1' A rebalancing factor on valuation for the following day which

caters for coupons/values vested in the sub sector/index



5.3.3 Record Layout

Excel Report(s)

Report Name	MTMDetailed <ccyymmdd>.xls</ccyymmdd>		
Sheet	WTWDetalled <ccttwwdd>.xis</ccttwwdd>		
Name	мтм		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	Detailed Daily MTM - Extract	varchar(100)	12
Trade date	<dd-mmm-yy></dd-mmm-yy>	datetime	C4
Settlement Date	<dd-mmm-yy></dd-mmm-yy>	datetime	C5
Column			
headings	(Bond Code)		B6-AB6
	Detail		
Field Name		Field Type	Cells
Bond Code		varchar(20)	>=B7
ISIN Code		varchar(20)	>=C7
Maturity		datetime	>=D7
Coupon		float	>=E7
Companion Bond		varchar(20)	>=F7
BP Spread		float	>=G7
MTM		float	>=H7
All in price		float	>=17
Clean Price		float	>=J7
Accrued Interest		float	>=K7
Year High Yield		float	>=L7
Year Low Yield		float	>=M7
Return (YTD)		float	>=N7
Duration		float	>=07
Modified Duration		float	>=P7
Delta		float	>=Q7
Rand per Basis Po	oint	float	>=R7
Convexity		float	>=S7
Yield Volatility		float	>=T7
Yield/Price Indicator		varchar(20)	>=U7
Last Trade Date		Datetime	>=V7
Last MTM Change Date		Datetime	>=W7
Index Ratio		float	>=X7
Base CPI		float	>=Y7
Reference CPI		float	>=Z7
MTM Process Methodology		varchar(100)	>=AA7
MTM Change		Currently empty	>=AB7

Report			
Name	MTMDetailed <ccyymmdd>.xls</ccyymmdd>		
Sheet			
Name	BEASSA TRI		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	BEASSA Total Return Indices	varchar(100)	F2
Report			
Date	<dd mmm="" yy=""></dd>	datetime	C5
Column	(2)		20.140
headings	(Sector)		B6-M6
Detail			
Field Name		Field Type	Cells
Sector		varchar(100)	B7-B14
Clean Price Index		float	C7-C14
Interest Yield		float	D7-D14
Total Return Index	(float	E7-E14
TRI Average Yield		float	F7-F14
Modified Duration		float	G7-G14
Convexity		float	H7-H14
Total Return MtD		float	17-114
Total Return YtD		float	J7-J14
Total Return YonY		float	K7-K14
K Factor <dd mmm=""></dd>		float	L7-L14
K Factor <dd mmm=""></dd>		float	M7-M14

Report			
Name	MTMDetailedUpdated <ccyymmdd>.xls</ccyymmdd>		
Sheet			
Name	BEASSA Yield Curve		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report			
Title	BEASSA Yield Curve	varchar(100)	13
Report			
Date	<dd mmm="" yy=""></dd>	datetime	C6
Column			
headings	(Time to Maturity)		B7-C7
Detail			
Field Name		Field Type	Cells
Time to Matu	rity	datetime	B8-B128
Yield to Maturity float C8-C128		C8-C128	



Report			
Name	MTMDetailed <ccyymmdd>.xls</ccyymmdd>		
Sheet Name	Credit Indices		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	JSE Credit Indices	varchar(100)	D2
Report Date	<dd mmm="" yy=""></dd>	datetime	C5
Column			
headings	(Sector)		B6-H6
Detail			
Field Name		Field Type	Cells
Sector		varchar(100)	B7-B24
Total Return Inde	ex	float	C7-C24
Total Return MtD		float	D7-D24
Total Return YtD		float	E7-E24
Total Return YonY		float	F7-F24
K Factor <dd mmm=""></dd>		float	G7-G19
K Factor <dd mmm=""></dd>		float	H7-H19

CSV Report(s)

Report			
Name	MTMDetail <ccyymmdd>.csv</ccyymmdd>		
Report	WITWIDGUILGOT TWWDD2.00V		
type	csv		
Delimiter	comma ","		
Total rows	Varies		
Total			
columns	Fixed - 26		
	Heading		
			Row,
	Actual/ <pattern>/(Example)</pattern>	Field Type	Column
Report			
Title	MTMDetailedUpdatedCCYYMMDD	varchar(100)	1, 9
Trade date	<dd-mmm-yy></dd-mmm-yy>	datetime	3, 3
Settlement			
date	<dd-mmm-yy></dd-mmm-yy>	datetime	4, 3
Column			
headings	(Bond Code)		5, (2-26)
	Detail		
Field Name		Field Type	Column No.
Bond Code		varchar(20)	2
ISIN Code		varchar(20)	3
Maturity		datetime	4
Coupon		float	5
Companion Bond		varchar(20)	6
BP Spread		float	7
MTM		float	8

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All in price	float	9
Clean Price	float	10
Accrued Interest	float	11
Year High Yield	float	12
Year Low Yield	float	13
Return (YTD)	float	14
Duration	float	15
Modified Duration	float	16
Delta	float	17
Rand per Basis Point	float	18
Convexity	float	19
Yield Volatility	float	20
Yield/Price Indicator	varchar(20)	21
Last Trade Date	Datetime	22
Last MTM Change Date	Datetime	23
Index Ratio	float	24
Base CPI	float	25
Reference CPI	float	26
MTM Process Methodology	varchar(100)	27
MTM Change	Currently empty	28

5.4 MTM T+1

5.4.1 Report Detail

The MTM T+1 report is a report showing all cash flows discounted back from Maturity date to Settlement date, and assumes all valuations for T+1 settlement. It will exclude any trades which were reported and cancelled on the same day, but will include any back dated trades reported on the day.

The report will be available at 17:30 pm daily.

5.4.2 Report Field Descriptions

Worksheet 1: MTM

TRADE DATE The date the report is relevant for

SETTLEMENT The date for which all instruments are valued. All cash flows

are discounted back from maturity date to this date

BOND CODE The short code for each listed instrument

ISIN CODE The unique ISIN code for each listed instrument. Will be a ZAG

code

MATURITY The date the instrument will redeem. (This is the date from

which the maturity cash-flow will be discounted from)

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COUPON Interest rate payable by the issuer to investors

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COMPANION BOND The short code of a more liquid companion instrument to assist

in the re-valuation of parallel shifts in the yield curve. Usually governments bonds will be used as the companion bond. (Not

all instruments will have a companion bond)

BP (Basis-point) SPREAD The spread above the companion bond which denotes the

credit component of the instruments yield

MTM The marked to market yield of the listed instrument

ALL IN PRICE The price of the listed bond based on the mark to market yield

including interest, all based on a nominal of 100 bonds

CLEAN PRICE The price of the listed bond based on the mark to market yield

excluding interest, all based on a nominal of 100 bonds

ACCRUED INTEREST The interest due to the buyer or seller. All based on nominal of

100 bonds

YEAR HIGH YIELD The highest mark to market yield for the year

YEAR LOW YIELD The lowest mark to market yield for the year

RETURN (YTD)

Basis point change since the beginning of the year

DURATION Measures the price volatility and interest rate sensitivity of the

instrument

MODIFIED DURATION The duration of a financial asset that consists of fixed cash

flows, for example a bond, is the weighted average of the times until those fixed cash flows is received. The duration also measures the price sensitivity to yield, the rate of change of price with respect to yield or the percentage change in price for

a parallel shift in yields.

DELTA The ratio comparing the change in the price of the instrument

RAND PER BASIS POINT The rand value change of R1 million bonds should the yield of

the instrument move one basis point (0.01%)

CONVEXITY A measure of the sensitivity of the duration of a bond to

changes in interest rates. The higher the convexity the more

sensitive the bond price to the change in IR's.

YIELD VOLATILITY For future use (Column currently not populated/used)

MTM CHANGE

,

MTM PROCESS METHODOLOGY The methodology/process that the exchange used to value the

bond for MTM purposes

Why the MTM changed

LAST TRADE DATE

The last date the specific instrument traded



LAST MTM CHANGE DATE

The last date the MTM for a particular instrument changed

YIELD/PRICE INDICATOR Indicates whether or not the instrument is traded as price or yield

INDEX RATIO Provide the multiplicative factor used to calculate inflation linked

bond prices

BASE CPI Indicates the CPI value in relation to the settlement date on which

the issue took place

REFERENCE CPI Indicates the CPI value in relation to the settlement date on which

the

trade took place

5.4.3 Record Layout

Refer to section 5.3.3 – Record Layout, Sheet Name – Detailed MTM (xls, csv)

5.5 MTM VALUE TODAY

5.5.1 Report Detail

The MTM Value Today report is a report showing all cash flows discounted back from Maturity date to Settlement date, and assumes all valuations for T+0 settlement. It will exclude any trades which were reported and cancelled on the same day, but will include any back dated trades reported on the day.

The report will be available at 17:30 pm daily.

5.5.2 Report Field Descriptions

Worksheet 1: MTM

<u>54.01</u>

TRADE DATE The date the report is relevant for

SETTLEMENT The date for which all instruments are valued. All cash flows

are discounted back from maturity date to this date

BOND CODE The short code for each listed instrument

ISIN CODE The unique ISIN code for each listed instrument. Will be a ZAG

code

MATURITY The date the instrument will redeem. (This is the date from

which the maturity cash-flow will be discounted from)

COUPON Interest rate payable by the issuer to investors

COMPANION BOND The short code of a more liquid companion instrument to assist

in the re-valuation of parallel shifts in the yield curve. Usually



governments bonds will be used as the companion bond. (Not all instruments will have a companion bond)

BP (Basis-point) SPREAD The spread above the companion bond which denotes the

credit component of the instruments yield

MTM The marked to market yield of the listed instrument

ALL IN PRICE The price of the listed bond based on the mark to market yield

including interest, all based on a nominal of 100 bonds

CLEAN PRICE The price of the listed bond based on the mark to market yield

excluding interest, all based on a nominal of 100 bonds

ACCRUED INTEREST The interest due to the buyer or seller. All based on nominal of

100 bonds

YEAR HIGH YIELD The highest mark to market yield for the year

YEAR LOW YIELD The lowest mark to market yield for the year

RETURN (YTD)

Basis point change since the beginning of the year

DURATION Measures the price volatility and interest rate sensitivity of the

instrument

MODIFIED DURATION The duration of a financial asset that consists of fixed cash

flows, for example a bond, is the weighted average of the times until those fixed cash flows is received. The duration also measures the price sensitivity to yield, the rate of change of price with respect to yield or the percentage change in price for

a parallel shift in yields.

DELTA The ratio comparing the change in the price of the instrument

RAND PER BASIS POINT

The rand value change of R1 million bonds should the yield of

the instrument move one basis point (0.01%)

CONVEXITY A measure of the sensitivity of the duration of a bond to

changes in interest rates. The higher the convexity the more

sensitive the bond price to the change in IR's.

YIELD VOLATILITY For future use (Column currently not populated/used)

MTM CHANGE

<u>54.01</u>

Why the MTM changed

MTM PROCESS METHODOLOGY The methodology/process that the exchange used to value the

bond for MTM purposes

LAST TRADE DATE

The last date the specific instrument traded

LAST MTM CHANGE DATE

The last date the MTM for a particular instrument changed



YIELD/PRICE INDICATOR Indicates whether or not the instrument is traded as price or yield

INDEX RATIO Provide the multiplicative factor used to calculate inflation linked

bond prices

BASE CPI Indicates the CPI value in relation to the settlement date on which

> the issue took place

Indicates the CPI value in relation to the settlement date on which

REFERENCE CPI

trade took place

5.5.3 **Record Layout**

Refer to section 5.3.3 - Record Layout, Sheet Name - Detailed MTM (xls, csv)

5.6 **UTMTM**

Report Detail 5.6.1

The UTMTM (Unit Trust MTM) report is a report showing all cash flows discounted back from Maturity date to Settlement date, and assumes all valuations for T+3 settlement. It will exclude any trades which were reported and cancelled on the same day, but will include any back dated trades reported on the day.

This report will be available at 15:30 daily.

Report Field Descriptions 5.6.2

Worksheet 1: MTM

TRADE DATE The date the report is relevant for

SETTLEMENT The date for which all instruments are valued. All cash flows

are discounted back from maturity date to this date

BOND CODE The short code for each listed instrument

ISIN CODE The unique ISIN code for each listed instrument. Will be a ZAG

code

MATURITY The date the instrument will redeem. (This is the date from

which the maturity cash-flow will be discounted from)

COUPON Interest rate payable by the issuer to investors

COMPANION BOND The short code of a more liquid companion instrument to assist

in the re-valuation of parallel shifts in the yield curve. Usually governments bonds will be used as the companion bond. (Not

all instruments will have a companion bond)



BP (Basis-point) SPREAD The spread above the companion bond which denotes the

credit component of the instruments yield

MTM The marked to market yield of the listed instrument

ALL IN PRICE The price of the listed bond based on the mark to market yield

including interest, all based on a nominal of 100 bonds

CLEAN PRICE The price of the listed bond based on the mark to market yield

excluding interest, all based on a nominal of 100 bonds

ACCRUED INTEREST The interest due to the buyer or seller. All based on nominal of

100 bonds

YEAR HIGH YIELD The highest mark to market yield for the year

YEAR LOW YIELD The lowest mark to market yield for the year

RETURN (YTD)

Basis point change since the beginning of the year

DURATION Measures the price volatility and interest rate sensitivity of the

instrument

MODIFIED DURATION The duration of a financial asset that consists of fixed cash

flows, for example a bond, is the weighted average of the times until those fixed cash flows is received. The duration also measures the price sensitivity to yield, the rate of change of price with respect to yield or the percentage change in price for

a parallel shift in yields.

DELTA The ratio comparing the change in the price of the instrument

RAND PER BASIS POINT The rand value change of R1 million bonds should the yield of

the instrument move one basis point (0.01%)

CONVEXITY A measure of the sensitivity of the duration of a bond to

changes in interest rates. The higher the convexity the more

sensitive the bond price to the change in IR's.

YIELD VOLATILITY For future use (Column currently not populated/used)

MTM CHANGE

<u>54.01</u>

Why the MTM changed

MTM PROCESS METHODOLOGY The methodology/process that the exchange used to value the

bond for MTM purposes

LAST TRADE DATE The last date the specific instrument traded

LAST MTM CHANGE DATE

The last date the MTM for a particular instrument changed



YIELD/PRICE INDICATOR Indicates whether or not the instrument is traded as price or yield

INDEX RATIO Provide the multiplicative factor used to calculate inflation linked

bond prices

BASE CPI Indicates the CPI value in relation to the settlement date on which

the issue took place

Indicates the CPI value in relation to the settlement date on which

REFERENCE CPI

trade took place



5.6.3 Record Layout

Excel Report(s)

Report			
Name	UTMTM <ccyymmdd>.xls</ccyymmdd>		
Sheet Name	UTMTM <ccyymmdd></ccyymmdd>		
IName			
	Heading		T =
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Domont Title	Bond Valuations for Unit		00
Report Title	Trusts	varchar(100)	C2
Trade date Settlement	<dd-mmm-yy></dd-mmm-yy>	datetime	C4
Date	<dd-mmm-yy></dd-mmm-yy>	datetime	C5
Column headings	(Bond Code)		B6-AB6
	Detail		
Field Name		Field Type	Cells
Bond Code		varchar(20)	>=B7
ISIN Code		varchar(20)	>=C7
Maturity		datetime	>=D7
Coupon		float	>=E7
Companion Bond		varchar(20)	>=F7
BP Spread		float	>=G7
MTM		float	>=H7
All in price		float	>=17
Clean Price		float	>=J7
Accrued Interest		float	>=K7
Year High Yield		float	>=L7
Year Low Yield		float	>=M7
Return (YTD)		float	>=N7
Duration		float	>=07
Modified Duration		float	>=P7
Delta		float	>=Q7
Rand per Basis Point		float	>=R7
Convexity		float	>=S7
Yield Volatility		float	>=T7
Yield/Price Indicator		varchar(20)	>=U7
Last Trade Date		Datetime	>=V7
Last MTM Change Date		Datetime	>=W7
Index Ratio		float	>=X7
Base CPI		float	>=Y7
Reference CPI		float	>=Z7
MTM Process Methodology		varchar(100)	>=AA7
MTM Change		Currently empty	>=AB7



CSV Report(s)

Report Name	UTMTM <ccyymmdd>.csv</ccyymmdd>		
Report type	CSV		
Delimiter	comma ","		
Total rows	Varies		
Total	Valido		
columns	Fixed - 28		
	Heading	1	
			Row,
	Actual/ <pattern>/(Example)</pattern>	Field Type	Column
	Bond Valuations for Unit	. ((5.5)	
Report Title	Trusts	varchar(100)	1, 3
Trade date	<dd-mmm-yy></dd-mmm-yy>	datetime	3, 3
Settlement date	<dd-mmm-yy></dd-mmm-yy>	datetime	4, 3
Column	Cuu-mini-yy>	datetime	4, 3
headings	(Bond Code)		5, (2-28)
J	Detail		
Field Name		Field Type	Column No.
Bond Code		varchar(20)	2
ISIN Code		varchar(20)	3
Maturity		datetime	4
Coupon		float	5
Companion Bond		varchar(20)	6
BP Spread		float	7
MTM		float	8
All in price		float	9
Clean Price		float	10
Accrued Interest		float	11
Year High Yield		float	12
Year Low Yield		float	13
Return (YTD)		float	14
Duration		float	15
Modified Duration		float float	16
Delta	Delta		17
Rand per Basis Point		float	18
Convexity		float	19
Yield Volatility		float	20
Yield/Price Indicator		varchar(20)	21
Last Trade Date		Datetime	22
Last MTM Change Date		Datetime	23
Index Ratio		float	24
Base CPI		float	25
Reference CPI		float	26
MTM Process Methodology		varchar(100)	27



MTM Change	Currently empty	28
I MITH CHAINE	Currently empty	20

5.7 UTMTM + 1

5.7.1 Report Detail

The UTMTM+1 report is a report showing all cash flows discounted back from Maturity date to Settlement date, and assumes all valuations for T+1 settlement. It will exclude any trades which were reported and cancelled on the same day, but will include any back dated trades reported on the day.

This report will be available at 15:30 daily.

5.7.2 Report Field Descriptions

Worksheet 1: MTM

TRADE DATE

The date the report is relevant for

SETTLEMENT The date for which all instruments are valued. All cash flows

are discounted back from maturity date to this date

BOND CODE The short code for each listed instrument

ISIN CODE The unique ISIN code for each listed instrument. Will be a ZAG

code

MATURITY The date the instrument will redeem. (This is the date from

which the maturity cash-flow will be discounted from)

COUPON Interest rate payable by the issuer to investors

COMPANION BOND The short code of a more liquid companion instrument to assist

in the re-valuation of parallel shifts in the yield curve. Usually governments bonds will be used as the companion bond. (Not

all instruments will have a companion bond)

BP (Basis-point) SPREAD The spread above the companion bond which denotes the

credit component of the instruments yield

MTM The marked to market yield of the listed instrument

ALL IN PRICE The price of the listed bond based on the mark to market yield

including interest, all based on a nominal of 100 bonds

CLEAN PRICE The price of the listed bond based on the mark to market yield

excluding interest, all based on a nominal of 100 bonds

ACCRUED INTEREST The interest due to the buyer or seller. All based on nominal of

100 bonds

YEAR HIGH YIELD The highest mark to market yield for the year

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YEAR LOW YIELD The lowest mark to market yield for the year

RETURN (YTD) Basis point change since the beginning of the year

DURATION Measures the price volatility and interest rate sensitivity of the

instrument

MODIFIED DURATION The duration of a financial asset that consists of fixed cash

> flows, for example a bond, is the weighted average of the times until those fixed cash flows is received. The duration also measures the price sensitivity to yield, the rate of change of price with respect to yield or the percentage change in price for

a parallel shift in yields.

DELTA The ratio comparing the change in the price of the instrument

RAND PER BASIS POINT The rand value change of R1 million bonds should the yield of

the instrument move one basis point (0.01%)

CONVEXITY A measure of the sensitivity of the duration of a bond to

changes in interest rates. The higher the convexity the more

sensitive the bond price to the change in IR's.

YIELD VOLATILITY For future use (Column currently not populated/used)

MTM CHANGE

Why the MTM changed

MTM PROCESS METHODOLOGY The methodology/process that the exchange used to value the

bond for MTM purposes

LAST TRADE DATE The last date the specific instrument traded

LAST MTM CHANGE DATE The last date the MTM for a particular instrument changed

YIELD/PRICE INDICATOR Indicates whether or not the instrument is traded as price or yield

INDEX RATIO Provide the multiplicative factor used to calculate inflation linked

bond prices

BASE CPI Indicates the CPI value in relation to the settlement date on which

> the issue took place

the

Indicates the CPI value in relation to the settlement date on which

REFERENCE CPI

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trade took place



5.7.3 **Record Layout**

Refer to section 5.6.3 - UTMTM Record Layout

5.8 **UTMTM VALUE TODAY**

5.8.1 **Report Detail**

The UTMTM Value Today report is a report showing all cash flows discounted back from Maturity date to Settlement date, and assumes all valuations for T+0 settlement. It will exclude any trades which were reported and cancelled on the same day, but will include any back dated trades reported on the day.

This report will be available at 15:30 daily.

5.8.2 **Report Field Descriptions**

Worksheet 1: MTM

The date for which all instruments are valued. All **SETTLEMENT**

cash flows are discounted back from maturity date

to this date

BOND CODE The short code for each listed instrument

ISIN CODE The unique ISIN code for each listed instrument.

Will be a ZAG code

MATURITY The date the instrument will redeem. (This is the

date from which the maturity cash-flow will be

discounted from)

COUPON Interest rate payable by the issuer to investors

COMPANION BOND The short code of a more liquid companion

instrument to assist in the re-valuation of parallel shifts in the yield curve. Usually governments bonds will be used as the companion bond. (Not all instruments will have a companion bond)

BP (Basis-point) SPREAD The spread above the companion bond which

denotes the credit component of the instruments

yield

MTM The marked to market yield of the listed instrument



ALL IN PRICE The price of the listed bond based on the mark to

market yield including interest, all based on a

nominal of 100 bonds

CLEAN PRICE The price of the listed bond based on the mark to

market yield excluding interest, all based on a

nominal of 100 bonds

ACCRUED INTEREST The interest due to the buyer or seller. All based

on nominal of 100 bonds

YEAR HIGH YIELD The highest mark to market yield for the year

YEAR LOW YIELD The lowest mark to market yield for the year

RETURN (YTD)

Basis point change since the beginning of the year

DURATION Measures the price volatility and interest rate

sensitivity of the instrument

MODIFIED DURATION The duration of a financial asset that consists of

fixed cash flows, for example a bond, is the weighted average of the times until those fixed cash flows is received. The duration also measures the price sensitivity to yield, the rate of change of price with respect to yield or the percentage change in price for a parallel shift in

yields.

DELTA The ratio comparing the change in the price of the

instrument

RAND PER BASIS POINT

The rand value change of R1 million bonds should

the yield of the instrument move one basis point

(0.01%)

CONVEXITY A measure of the sensitivity of the duration of a

bond to changes in interest rates. The higher the convexity the more sensitive the bond price to the

change in IR's.

YIELD VOLATILITY For future use (Column currently not

populated/used)

MTM CHANGE
Why the MTM changed

MTM PROCESS METHODOLOGY

The methodology/process that the exchange used to

value the bond for MTM purposes

LAST TRADE DATE

The last date the specific instrument traded

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LAST MTM CHANGE DATE

The last date the MTM for a particular instrument

changed

YIELD/PRICE INDICATOR Indicates whether or not the instrument is traded as

price or yield

INDEX RATIO Provide the multiplicative factor used to calculate

inflation linked bond prices

BASE CPI Indicates the CPI value in relation to the settlement

date on which the issue

took place

REFERENCE CPI Indicates the CPI value in relation to the settlement

date on which the trade took place

5.8.3 Record Layout

Refer to section 5.6.3 - UTMTM Record Layout



INDEX REPORTS

The reconstitution/reweighting reports consist of the selected bonds and their weightings at reconstitution /reweighting dates. The reports are published by the 15th of the month prior the effective month. The reconstitution is based upon average size of the bond issue and liquidity for the twelve-month period preceding the selection date and they are effective at 12 noon of the first Thursday of February, May, August and November. For the reweighting, the nominal amount in issue is taken to be the value at the end of the month, two months prior to the month in which the new re-weighting applies. They are effective on the Friday following the first Thursday of January, March, April, June, July, September, October, and December.

5.9 CILI

<u>54.01</u>

5.9.1 Report Detail

Inflation-Linked Indices track the general levels of bonds whose returns are linked to the Consumer Price Index, or "CPI". The Composite Inflation-Linked Index is called the "CILI" and is split into three sub-indices to reflect bonds issued by Government, State Owned Enterprises and Corporates which will be called the "IGOV", "ISOE" and "ICORP" indices respectively.

The CILI is split into four sub-indices based on term to maturity forming the 1-3 year, 3-7 year, 7-12 year and 12+ year sub-indices.

5.9.2 Report Field Descriptions

Worksheet 1: CILI Output

VALUATION DATE (t)	The date of the valuation, in the format DD-MM-YY.

SECTOR	Inflation-Linked Indices which track the general levels of bonds

whose returns are linked to the Consumer Price Index

CLEAN PRICE INDEX Price index which excludes accrued interest or coupons paid

ALL-IN-PRICE INDEX

Price index which is identical to the Clean Price index save for

using the All-in-Price. This is used to benchmark portfolio

performance which includes interest

INTEREST YIELD INDEX

Yield index associated with the price index which includes the

coupons to be paid

TOTAL RETURN INDEX

Price index used to measure bond portfolio performance which

includes accrued interest as well as historical index changes. The historical performance of the index is

essentially embedded in the index level and the index does not

jump during coupon payment events.

MODIFIED DURATION The duration of a financial asset that consists of fixed cash

flows, for example a bond, is the weighted average of the times until those fixed cash flows are received. The duration also measures the price sensitivity to yield, the rate of change



of price with respect to yield or the percentage change in price

for a parallel shift in yields

CONVEXITY A measure of the curvature in the relationship between bond

prices and bond yields that demonstrates how the duration of

a bond changes as the interest rate changes.

TOTAL RETURN MtD Total return Month to Date

TOTAL RETURN YtD Total return Year to Date

TOTAL RETURN YonY Total return Year on Year

K FACTOR 'DATE' A rebalancing factor on valuation date which caters for

coupons/values vested in the sub sector/index

K FACTOR 'DATE + 1' A rebalancing factor on valuation for the following day which

caters for coupons/values vested in the sub sector/index

5.9.3 Record Layout

Excel Report(s)

Report					
Name	CILI <ccyymmdd>.xls</ccyymmdd>				
Sheet Name	CILI Output				
Heading					
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell		
	JSE ASSA Inflation Linked				
Report Title	Bond Index	varchar(100)	F2		
Report Date	<dd mmm="" yy=""></dd>	datetime	C5		
Column					
headings	(Sector)		B6-M6		
	Detail				
Field Name		Field Type	Cells		
Sector		varchar(100)	B7-B15		
Clean Price Index		float	C7-C15		
All-in-Price Index		float	D7-D15		
Interest Yield		float	E7-E15		
Total Return Index		float	F7-F15		
Modified Duration		float	G7-G15		
Convexity		float	H7-H15		
Total Return MtD		float	17-115		
Total Return YtD		float	J7-J15		
Total Return YonY		float	K7-K15		
K Factor <dd mmm=""></dd>		float	L7-L15		
K Factor <dd mmm=""></dd>		float	M7-M15		



5.10 CONSTITUENTS

NB: The IW and IWQ constituents follow the same formats and layouts as the CILI and ALBI.

5.10.1 Report Detail

A complete list of all constituents of the BEASSA total return indices reweighting published monthly and recons are quarterly.

5.10.2 Report Field Descriptions

BOND CODE Short instrument code as assigned by the JSE

ISSUER Any entity approved by the Exchange that has issued Debt

Securities on the Exchange

COUPON Interest rate payable by the issuer to investors

MATURITY The date the instrument will redeem. (This is the date from

which the maturity cash-flow will be discounted from)

WEIGHT The weight is the nominal amount of the bonds that need to be

held in the portfolio to balance to the index

COMMENTS For future use (Column currently not populated/used)

5.10.3 Record Layout

Excel Report(s)

Report					
Name	IW <mmmccyy>Reweighting(ALBI).xls</mmmccyy>				
Sheet					
Name	Notice <q# ccyy=""></q#>				
Heading					
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell		
Report	(THE BOND EXCHANGE OF SOUTH				
Heading	AFRICA &)	varchar(100)	A1:A2		
	(BEASSA BOND INDICES.				
Report	INCORPORATING TOTAL RETURN				
Title	INDICES.)	varchar(100)	A4:A5		
Report	(Monthly re-weighting of the All Bond Index				
Description	(ALBI) takes place on)	varchar(100)	A6:A7		
Sub-					
Headings	(SECTOR 1 TO 3 YEARS)	varchar(50)	Variable		
Column					
headings	(Bond Code)	varchar(20)	A9:H9		
Detail					

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Field Name	Field Type	Cells
Bond Code	varchar(20)	>=A12
Issuer	varchar(100)	>=B12
Coupon	float	>=D12
Maturity	datetime	>=E12
Weight	Integer	>=D12
Comments	char	>=H12:L12

CSV Report(s)

Report			
Name	IW <mmmccyy>Reweighting(ALBI).csv</mmmccyy>		
Report			
type	CSV		
Delimiter	comma ","		
Total rows	Varies		
Total			
columns	Fixed - 14		
	Heading		
			Row,
	Actual/ <pattern>/(Example)</pattern>	Field Type	Column
Report	(THE BOND EXCHANGE OF SOUTH		
Heading	AFRICA &)	varchar(100)	1-2, 1
	(BEASSA BOND INDICES.		
Report	INCORPORATING TOTAL RETURN		
Title	INDICES.)	varchar(100)	4-5, 1
Repprt	(Monthly re-weighting of the All Bond		
Description	Index (ALBI) takes place on)	varchar(100)	6-7, 1
Sub-			
Headings	(SECTOR 1 TO 3 YEARS)	varchar(50)	Variable
Column			
headings	(Bond Code)	varchar(20)	9, 1-11
	Detail		
Field Name	Field Type	Column No.	
Bond Code	text	1	
Issuer	text	2	
Coupon	Date	4	
Maturity	Date	6	
Weight	numeric	7	
Comments	text	8-11	

5.10.1 Report Detail

A complete list of all constituents of the Composite Inflation –Linked Indices (CILI) Reweighting is published monthly by the JSE. The Recon is published quarterly

5.10.2 Report Field Descriptions

BOND CODE

Short instrument code as assigned by the JSE



ISSUER Any entity approved by the Exchange that has issued Debt

Securities on the Exchange

COUPON Interest rate payable by the issuer to investors

MATURITY The date the instrument will redeem. (This is the date from

which the maturity cash-flow will be discounted from)

WEIGHT The weight is the nominal amount of the bonds that need to be

held in the portfolio to balance to the index

COMMENTS For future use (Column currently not populated/used)

5.10.3 Record Layout

Excel Report(s)

	CILI <mmmccyy>ReweightingCCYY.x</mmmccyy>		
Report Name	Is		
Sheet Name	Notice <q# ccyy=""></q#>		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Heading	(THE JOHANNESBURG STOCK EXCHANGE &)	varchar(100	A1:A2
Report Title	(JSE ASSA BOND INDICES. INCORPORATING TOTAL RETURN INDICES)	varchar(100	A4:A5
Report Description	(Monthly re-weighting of the Composite Inflation Linked Bond Index (CILI) take place on)	varchar(100	A6:A7
Sub-Headings	(SECTOR 1 TO 3 YEARS)	varchar(50)	Variable
Column headings	(Bond Code)	varchar(20)	A9:H9
	Detail		
Field Name		Field Type	Cells
Bond Code		varchar(20)	>=A12
Issuer		varchar(100	>=B12
Coupon		float	>=D12
Maturity		datetime	>=E12
Weight		Integer	>=D12
Comments		char	>=H12:N1 2

CSV Report(s)

Report		
Name	CILI <mmmccyy>ReweightingCCYY.csv</mmmccyy>	
Report		
type	CSV	
Delimiter	comma ","	
Total rows	Varies	



Total					
columns	Fixed - 14				
	Heading				
			Row,		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Column		
Report	(THE JOHANNESBURG STOCK				
Heading	EXCHANGE &)	varchar(100)	1-2, 1		
	(JSE ASSA BOND INDICES.				
Report	INCORPORATING TOTAL RETURN				
Title	INDICES)	varchar(100)	4-5, 1		
	(Monthly re-weighting of the				
Repprt	Composite Inflation Linked Bond Index				
Description	(CILI) take place on)	varchar(100)	6-7, 1		
Sub-					
Headings	(SECTOR 1 TO 3 YEARS)	varchar(50)	Variable		
Column					
headings	(Bond Code)	varchar(20)	9, 1-11		
	Detail				
Field Name	Field Type	Column No.			
Bond Code	text	1			
Issuer	text	2			
Coupon	Date	4			
Maturity	Date	6			
Weight	numeric	7			
Comments	text	8-13			

The CILIReconQ[Q]<CCYY> is produced quarterly and is the same format as the CILI Reweighting

5.11 DAILY TRI (ATTRIBUTION REPORT)

5.11.1 Report Detail

The JSE publishes this daily attribution file with all intermediate calculations for the Total Return Indices. The calculation of the indices requires a number of intermediate steps to get to the ultimate Index value from the individual prices. This report shows all intermediate calculations needed to calculate the daily index level as well as the individual bond performance figures.

5.11.2 Report Field Descriptions

Worksheet 1: DAILY TRI RANGE

PORTFOLIO ALBI/GOVI/OTHI

INSTRUMENT CODE Bond code (Short instrument code as assigned by the

JSE)/Short code

VALUATION DATE VALUATION DATE – Trade date (T+0), in the format DD-

MM-YY

SETTLEMENT DATE The date for which all instruments are valued. All cash

flows are discounted back from maturity date to this date



MTM Closing Yield

ALL IN PRICE Price index which is identical to the Clean Price index

save for using the All-in-Price. This is used to benchmark

portfolio performance which includes interest

CLEAN PRICE Price index which excludes accrued interest or coupons

paid

ACCRUED INTEREST The interest due to the buyer or seller. All based on

nominal of 100 bonds

DURATION Measures the price volatility and interest rate sensitivity of

the instrument

MODIFIED DURATION The duration of a financial asset that consists of fixed

cash flows, for example a bond, is the weighted average of the times until those fixed cash flows are received. The duration also measures the price sensitivity to yield, the rate of change of price with respect to yield or the percentage change in price for a parallel shift in yields.

CONVEXITY A measure of the sensitivity of the duration of a bond to

changes in interest rates. The higher the convexity the more sensitive the bond price to the change in IR's.

MATURITY The termination date of a bond

CPN The first coupon payment date which is on or after

valuation date

CPN1 First coupon payment date

CPN2 Second coupon payment date

CPN3 Third coupon payment date

CPN4 Fourth coupon payment date

BCD Books close date corresponding to CPN

BCD1 First books close date

BCD2 Second books close date

BCD3 Third books close date

BCD4 Fourth books close date

LCD The previous coupon payment date which is before CPN

NCD The following coupon payment date which is after CPN



CUMEX CU/EX Indicator

DAYS ACC Number of days accrued since the last coupon payment

date

BIT The Bond Portion of the portfolio

ISSUE DATE

The date upon which a debt security is listed

DIT The valuation date discount factor

HIT The number of half-years over which the discounting is

performed

KT The proportionality constant (k-factor)

KTP K-factor of the bond on the first day of its ex-period

NIT The nominal amount of a bond

NITP The nominal amount of the bond on the first day of its

ex-period

NPIT The nominal amount of the bond, effective on or before

the next trading day

RIT The value of the ex-coupon for re-investment on the last

day of the ex-period.

VIT The value of each bond's ex-coupon on any day in its

ex-period

WIT The Rand nominal amount issued for each bond

WITP The next weightings

XIT The ex-Coupon portion of the portfolio

COUPON FREQUENCY Coupon frequency of a bond

COUPON RATE Coupon Rate of a bond

QUARTERLY Quarterly = 0-4:30 run, Quarterly = 1 - 12:00 run

<u>54.0</u>1



5.11.3 Record Layout

Excel Report(s)

Report			
Name	Daily_TRI_ <ddmmccyy>.xls</ddmmccyy>		
Sheet			
Name	Daily TRI		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report	D " TO!	. (400)	
Heading	Daily TRI	varchar(100)	B3
Column headings	(Instrument Code)	vorobor(FO)	B5:AT5
neadings	(Instrument Code) Detail	varchar(50)	B5.A15
Field Name	Detail	Field Type	Cells
Portfolio		varchar(100)	>=B5
Instrument Code		varchar(50)	>=C5
Valuation Date		datetime	>=D5
Settlement Date		datetime	>=E5
MTM		float	>=E3 >=F5
All In Price		float	>=G5
Clean Price		float	>=H5
Accrued Interest		float	>=15 >=15
Duration		float	>=K5
Modified Duration	<u> </u>	float	>=K5 >=L5
Convexity	П	float	>=L5 >=M5
Maturity		datetime	>=N5
CPN		datetime	>=05
CPN1		datetime	>=P5
CPN2		datetime	>=Q5
CPN2 CPN3		datetime	>=Q5 >=R5
CPN4		datetime	>=R3 >=S5
BCD		datetime	>=35 >=T5
BCD1		datetime	>=15 >=U5
BCD1		datetime	>=U5 >=V5
BCD3		datetime	>=V5 >=W5
BCD3		datetime	>=V5 >=X5
LCD		datetime	>=X5 >=Y5
NCD		datetime	>= Y 5 >= Z 5
CUMEX			>=AA5
Days Acc		varchar(50) integer	>=AA5 >=AB5
Bit		float	>=AD5 >=AC5
Issue Date		datetime	>=AD5
Dit		float	>=AE5
Hit		float	>=AF5
Kt Ktn		float	>=AG5
Ktp		float	>=AH5
Nit		float	>=AI5
Nitp		float	>=AJ5
Npit		float	>=AK5
Rit		float	>=AL5
Vit		float	>=AM5

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Wit	float	>=AN5
Witp	float	>=AO5
Xit	float	>=AP5
Coupon Frequency	integer	>=AR5
Coupon Rate	float	>=AS5
Quarterly	integer	>=AT5

CSV Report(s)

Report Name	Daily_TRI_ <ddmmccy< th=""><th>Y>.csv</th></ddmmccy<>	Y>.csv
Report type	CSV	
Delimiter	comma ","	
Total rows	Varies	
Total columns	Fixed - 43	
	Deta	il
Field Name	Field Type	Column No.
Portfolio	text	1
Instrument Code	text	2
Valuation Date	date	3
Settlement Date	date	4
MTM	numeric	5
All In Price	numeric	6
Clean Price	numeric	7
Accrued Interest	numeric	8
Duration	numeric	9
Modified Duration	numeric	10
Convexity	numeric	11
Maturity	date	12
CPN	date	13
CPN1	date	14
CPN2	date	15
CPN3	date	16
CPN4	date	17
BCD	date	18
BCD1	date	19
BCD2	date	20
BCD3	date	21
BCD4	date	22
LCD	date	23
NCD	date	24
CUMEX	text	25
Days Acc	numeric	26
Bit	numeric	27
Issue Date	date	28
Dit	numeric	29
Hit	numeric	30
Kt	numeric	31
Ktp	numeric	32

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Nit	numeric	33
Nitp	numeric	34
Npit	numeric	35
Rit	numeric	36
Vit	numeric	37
Wit	numeric	38
Witp	numeric	39
Xit	numeric	40
Coupon Frequency	numeric	41
Coupon Rate	numeric	42
Quarterly	numeric	43



5.12 TRI (TOTAL RETURN INDEX)

5.12.1 Report Detail

The total return indices are calculated daily based on the constituents of the indices as well as each individual instruments daily performance. This report shows the clean and total return index values for the given day along with the relevant Greeks (Modified Duration, Convexity). Periodic return numbers (Month to date and Year to date) are also included in the report.

5.12.2 Report Field Descriptions

Worksheet 1: TRI"CCYYMMDD"

<u>54.01</u>

VALUATION DATE VALUATION DATE - The date of the valuation, in the format DD-

MM-YY

SECTOR The sub index short code. For example ALBI, GOVI, OTHI, or as

ALBI Term splits

CLEAN PRICE INDEX Price index which excludes accrued interest

INTEREST YIELD Interest component (accrued interest due to the clean price

index).

Refer to clean price index methodology.

TOTAL RETURN INDEX Price index used to measure bond portfolio performance which

includes accrued interest as well as historical index changes. The historical performance of the index is essentially embedded in the index level and the index does not jump during coupon payment

events.

TRI AVERAGE YIELD The average yield of the sub index/sector of all constituents

MODIFIED DURATION The duration of a financial asset that consists of fixed cash flows.

for example a bond, is the weighted average of the times until those fixed cash flows is received. The duration also measures the price sensitivity to yield, the rate of change of price with respect to yield or the percentage change in price for a parallel

shift in yields.

CONVEXITY A measure of the sensitivity of the duration of a bond to changes

in interest rates. The higher the convexity the more sensitive the

bond price to the change in IR's.

TOTAL RETURN MtD

The return of the sub index/sector for the month to date as based

on the TRI

TOTAL RETURN YtD

The return of the sub index/sector for the year to date as based

on the TRI

TOTAL RETURN YonY

The return of the sub index/sector for the year on year to date as

based on the TRI



K FACTOR 'DATE'

A rebalancing factor on valuation date which caters for coupons/values vested in the sub sector/index

K FACTOR 'DATE + 1'

A rebalancing factor on valuation for the following day which caters for coupons/values vested in the sub sector/index

5.12.1 Record Layout

CSV Report(s)

Report			
Name	TRI <ccyymmdd>.csv</ccyymmdd>		
Report type	CSV		
Delimiter	comma ","		
Total rows	Fixed - 13		
Total			
columns	Fixed - 13		
	Headi	ng	
	Actual/ <pattern>/(Example)</pattern>	Field Type	Row, Column
	BEASSA Total Return		
Report Title	Indices	varchar(100)	1, 6
Trade date	<dd-mmm-yy></dd-mmm-yy>	datetime	4, 3
Settlement			
date	N/A	N/A	N/A
Column	(5 10 1)		5 (0.40)
headings	(Bond Code)		5, (2-13)
	Deta	il	
Field Name		Field Type	Column No.
Sector		varchar(20)	2
Clean Price Index		float	3
Interest Yield		float	4
Total Return Index		float	5
TRI Average Yield		float	6
Modified Duration		float	7
Convexity		float	8
Total Return MtD		float	9
Total Return YtD		float	10
Total Return YonY		float	11
K Factor <dd mmm<="" td=""><td>1></td><td>float</td><td>12</td></dd>	1>	float	12
K Factor <dd mmm<="" td=""><td><u></u></td><td>float</td><td>13</td></dd>	<u></u>	float	13



5.13 BOND DATA

5.13.1 Report Detail

Bond Database is a reference file, which provides specific instrument information of all listed instruments in the Bond Market. The bonds listed in this report are the primary driver in the SA Capital Market.

N.B. highlighted Fields will not be populated with data in this file

5.13.2 Report Field Descriptions

Worksheet 1: BondDataCCYYMMDD

BOND CODE Short instrument code as requested by the Issuer

PRICING CLASS CODE Financial Instrument type

ISIN NO International Securities Identification Number (ISIN)

uniquely identifies a security

ISSUER Any entity approved by the Exchange that has issued

Debt Securities on the Exchange

ISSUER CLASS The sector/industry the issuer falls under

ISSUE COUNTRY Country of residence of the Issuer

CURRENCY Currency that Instrument is listed in

AUTHORISED AMOUNT The amount which the Board of Directors/ Company has

approved for issue in respect of the Debt Security

concerned

ISSUED AMOUNT The nominal amount of bonds issued by the issuer and

placed in the market

ALL IN PRICE The price of a coupon bond including accrued interest

CLEAN PRICE The price of a coupon bond not including any accrued

interest

MARKET CAP AIP All in price / 100 * Nominal in issue (Cash value of bonds

in issue)

MARKET CAP CLEAN All in price / 100 * Nominal in issue (Cash value of bonds

in issue, excluding interest)

<u>54.01</u>



TOTAL SPOT NOMINAL TRADED FOR MONTH EXCLUDING REPOS

In a repo agreement, the borrower agrees to sell immediately a security to a lender and also agrees to buy the same security from the lender at a fixed price at some later date

TOTAL SPOT CLEAN CONSIDERATION FOR 'MONTH' EXCLUDING REPOS The cash value of turnover excluding interest for the

month

ISSUE DATE The date upon which a Debt Security is Listed

COUPON RATE % The interest rate of a bond / fixed income security

COUPON FREQUENCY The number of interest payments made annually

COUPON RATE INDICATOR Whether the bond pays a fixed or variable coupon

FLOAT RATE FIXED this field is used to indicate the basis points / spreads for

floating rate notes

FLOAT RATE VARIABLE

This field is used to indicate whether the variable notes is

linked to 3/6/12m JIBAR or another index.

COUPON FLOOR In the event of a floating rate note the coupon could be

limited on the downside should the reference yield

(JIBAR) dip below a certain level.

COUPON CAP In the event of a floating rate note the coupon could be

limited on the upside should the reference yield (JIBAR)

rise above a certain level.

FIRST INTEREST DATE

The first interest payment date stipulated by the issuer,

as the first period that the debt interest pays coupon

FIRST BOOK CLOSE DATE

The period stipulated by an Issuer as being the first

period that the Register closes

BROKEN FIRST COUPON For long / short stub instrument. Indicates that the first

coupon will be for a period shorter or longer than the interest periods indicated for the particular debt

instrument.

MATURITY DATE

The Date the principal amount is paid back and the bond

terminates.

CALLABLE FEATURES For callable instruments

EARLY REDEMPTION This field indicates that the issuer might redeem the

instrument before the final redemption date. It is mostly

applicable to callable bonds.



PRICING REDEMPTION DATE

The date on which the bond matures. For callable bonds

the earlier redemption date will be shown in this field and

the final redemption date in the Maturity Date field.

SPLIT MATURITY The maturity date for bonds that has split into new series

SPLIT MATURITY DATE 1 The maturity date for bonds that has split into new series

SPLIT MATURITY DATE 2 The maturity date for bonds that has split into new series

TRADE TYPE Whether the bond is trading at price, yield or inflation.

INTEREST DATE 1-12 Dates on which a bond pays a coupon

BOOK CLOSE DATE 1-12 The period or periods stipulated by an Issuer as being

the period or periods during which the Register in respect of its Debt Securities is closed for purposes of giving

effect to transfers of the Debt Securities.

GUARANTEE TYPE Guarantees in place at time of issue

STATUS Listed, Redeemed, Matured

RATING FITCH For future use (Column currently not populated/used)

RATING SP For future use (Column currently not populated/used)

RATING MOODY For future use (Column currently not populated/used)

CA RATINGS Data is no longer captured, however field is populated for

older bonds.

MARKET MAKER For future use (Column currently not populated/used)

INTEREST START DATE

The date from which interest is accrued for the first coupon

payment.

DATE CONVENTION Indicate how payments / maturity will be treated if it should

fall on a non-business day.

BASE CPI Provides the applicable Base CPI

BOND ETP Flag that denotes whether the instrument is also traded

on the Bond ETP platform

5.13.3 Record Layout

Excel Report(s)

Report Name	Latest.xls		
-------------	------------	--	--

Sheet Name	BondData		
	l He	ading	
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	Bond Data	varchar(100)	A1-B1
Trade Date	<yy dd="" mmm=""></yy>	datetime	A2-B2
	D	letail	
Field Name		Field Type	Cells
Bond Code		[varchar](20)	A4
Pricing Class Code	9	[varchar](10)	B4
ISIN No		[varchar](20)	С
Issuer		[varchar](100)	D
Issuer Class		[varchar](10)	E
Issuer Country		[varchar](100)	F
Currency		[varchar](50)	G
Authorised Amoun	t	[money]	Н
Issued Amount		[money]	1
All in Price		[float]	J
Clean Price		[float]	K
Market Cap AIP		[float]	L
Market Cap Clean		[float]	M
Repos	I Traded For [Month] Excluding	[float]	N
Excluding Repos	n Consideration For [Month]	[float]	0
Issue Date		[datetime]	Р
Coupon Rate %		[float]	Q
Coupon Frequency		[tinyint]	R
Coupon Rate Indic	eator	[varchar](50)	S
Float Rate Fixed		[varchar](50)	Т
Float Rate Variable	e	[varchar](100)	U
Coupon Floor		[varchar](50)	V
Coupon Cap		[varchar](50)	W
First Interest Date		[datetime]	X
First Book Close Date		[datetime]	Y
Broken First Coup	on	[bit]	Z
Maturity Date		[datetime]	AA
Callable Features		[varchar](500)	AB
Early Redemption		[bit]	AC
Pricing Redemptio	n Date	[datetime]	AD
Split Maturity		[bit]	AE

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Split Maturity Date 1	[datetime]	AF
Split Maturity Date 2	[datetime]	AG
Trade Type	[varchar](50)	AH
Interest Date 1	[datetime]	Al
Interest Date 2	[datetime]	AJ
Interest Date 3	[datetime]	AK
Interest Date 4	[datetime]	AL
Interest Date 5	[datetime]	AM
Interest Date 6	[datetime]	AN
Interest Date 7	[datetime]	AO
Interest Date 8	[datetime]	AP
Interest Date 9	[datetime]	AQ
Interest Date 10	[datetime]	AR
Interest Date 11	[datetime]	AS
Interest Date 12	[datetime]	AT
Book Close Date 1	[datetime]	AU
Book Close Date 2	[datetime]	AV
Book Close Date 3	[datetime]	AW
Book Close Date 4	[datetime]	AX
Book Close Date 5	[datetime]	AY
Book Close Date 6	[datetime]	AZ
Book Close Date 7	[datetime]	BA
Book Close Date 8	[datetime]	BB
Book Close Date 9	[datetime]	BC
Book Close Date 10	[datetime]	BD
Book Close Date 11	[datetime]	BE
Book Close Date 12	[datetime]	BF
Guarantee Type	[varchar](200)	BG
Status	[varchar](50)	BH
Rating Fitch	[varchar](100)	BI
Rating SP	[varchar](100)	BJ
Rating Moody	[varchar](100)	BK
CA Ratings	[varchar](100)	BL
Market Maker	[varchar](250)	BM
General Info	[varchar](500)	BN
Interest Start Date		ВО
Date Convention		BP
Base CPI	Decimal(3,15)	BQ
Bond ETP	[varchar](1)	BR





CSV Report(s)

Report Name	BondData <ccyymmdd>.csv</ccyymmdd>		
Sheet Name	BondData		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	Bond Data	varchar(100)	A1-B1
Trade Date	<yy dd="" mmm=""></yy>	datetime	A2-B2
	l Detail		
Field Name		Field Type	Cells
Bond Code		[varchar](20)	A4
Pricing Class Cod	de	[varchar](10)	B4
ISIN No		[varchar](20)	С
Issuer		[varchar](100)	D
Issuer Class		[varchar](10)	Е
Issuer Country		[varchar](100)	F
Currency		[varchar](50)	G
Authored Amount	i	[money]	Н
Issued Amount		[money]	1
All in Price		[float]	J
Clean Price		[float]	K
Market Cap AIP		[float]	L
Market Cap Clear	า	[float]	М
Total Spot Nomin	al Traded For [Month] Excluding Repo	[float]	N
Total Spot Clea Repos	n Consideration For [Month] Excluding	[float]	0
Issue Date		[datetime]	Р
Coupon Rate %		[float]	Q
Coupon Frequence	су	[tinyint]	R
Coupon Rate Indi		[varchar](50)	S
Float Rate Fixed		[varchar](50)	Т
Float Rate Variab	Float Rate Variable		U
Coupon Floor		[varchar](50)	V
Coupon Cap		[varchar](50)	W
First Interest Date	9	[datetime]	Х
First Book Close	Date	[datetime]	Υ
Broken First Coup	oon	[bit]	Z
Maturity Date		[datetime]	AA



Callable Features	[varchar](500)	AB
Early Redemption	[bit]	AC
Pricing Redemption Date	[datetime]	AD
Split Maturity	[bit]	AE
Split Maturity Date 1	[datetime]	AF
Split Maturity Date 2	[datetime]	AG
Trade Type	[varchar](50)	AH
Interest Date 1	[datetime]	Al
Interest Date 2	[datetime]	AJ
Interest Date 3	[datetime]	AK
Interest Date 4	[datetime]	AL
Interest Date 5	[datetime]	AM
Interest Date 6	[datetime]	AN
Interest Date 7	[datetime]	AO
Interest Date 8	[datetime]	AP
Interest Date 9	[datetime]	AQ
Interest Date 10	[datetime]	AR
Interest Date 11	[datetime]	AS
Interest Date 12	[datetime]	AT
Book Close Date 1	[datetime]	AU
Book Close Date 2	[datetime]	AV
Book Close Date 3	[datetime]	AW
Book Close Date 4	[datetime]	AX
Book Close Date 5	[datetime]	AY
Book Close Date 6	[datetime]	AZ
Book Close Date 7	[datetime]	ВА
Book Close Date 8	[datetime]	BB
Book Close Date 9	[datetime]	BC
Book Close Date 10	[datetime]	BD
Book Close Date 11	[datetime]	BE
Book Close Date 12	[datetime]	BF
Guarantee Type	[varchar](200)	BG
Status	[varchar](50)	ВН
Rating Fitch	[varchar](100)	BI
Rating SP	[varchar](100)	BJ
Rating Moody	[varchar](100)	BK
CA Ratings	[varchar](100)	BL
Market Maker	[varchar](250)	BM
General Info	[varchar](500)	BN
Interest Start Date		ВО
Date Convention		BP
Base CPI	Decimal(3,15)	BQ
Bond ETP	[varchar](1)	BR



TURNOVER STATS REPORTS

The Trade Detail report provides all the reported trades for the day. It excludes any trades which are reported and cancelled on the same day, but includes any back dated trades reported on the day.

This report will be available daily, at End of Day; however, can be requested for a period. Where the report is run for a period longer than one day (i.e. weekly or monthly), it will include all trades which contribute to the statistics of that period, regardless of when they were reported.

The reports will be produced in both XLS and CSV format.

The current Turnover Reports are being replaced by three "new" reports (see below) effective 3rd February 2014:

5.14 TRADE DETAIL

5.14.1 Report Detail

This report provides all the reported trades for the day. It excludes any trade which is reported and cancelled on the same day, but includes any back dated trades reported on the day.

5.14.2 Report Field Descriptions

Statistic Date Date on which trade will be aggregated into statistics

Trade Date Date on which trade was reported to the system

Trade Time Time at which matching criteria for both Buy and Sell legs is

satisfied

Instrument Bond Code

Yield at which the trade was made. Except where the

instrument is price traded, in which case it shows the price

Nominal Mominal amount of trade. Can be negative for backdated

Equal and Opposites

All in Price Price, or derived price at which the trade was made

Consideration ZAR value of trade. Can be negative

Carry Rate Underlying rate at which Repo trade was booked. Only filled in

for Repo 1 and Repo 2 trade types



Trade Type Standard Trade

Standard Trade (Spot)

Repo 1 Repo 2

Structured Deal (SD) Free of Value (FOV) Option Exercised (OX)

Other

Backdated E&O (Standard Trade)
Backdated E&O (Standard Trade-Spot)
Backdated E&O (Repo1 or Repo2)

Backdated E&O (FOV)

Backdated E&O (Structured deal)

Backdated E&O (OX)

Buy Party Foreign Client, Member, Local Client

Sell Party Foreign Client, Member, Local Client

Settlement Date on which settlement is scheduled to occur

Period Settlement period of trade (i.e. t+0 for same day)

Companion Represents the reference instrument over which the bond was

traded. Each listed instrument is available as a companion bond as well as JIBAR. Should an instrument be a floating rate note the JIBAR value should be used as a companion bond.

Spread Represents the traded spread value over the companion

bonds YTM. In the case of a floating rate note the spread represent the traded spread above JIBAR. In both cases users will still be required to capture the spread and the yield values. All calculations will be based off of the yield value and will not

consider the spread value.

Clean Price Represents capital value of the bond price without regard for

the interest accrued or coupon paid

5.14.3 Record Layout

Excel Report(s)

<u>54.01</u>

Report Name	TradeDetail_Daily <ccyymmdd>.xls</ccyymmdd>		
Sheet Name	Trade Detail		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	Trade Detail	Text	A11
Date Range	Trade Date	Date	B12
Date From	<ccyy dd="" mm=""></ccyy>	Date	B13
Date To	<ccyy dd="" mm=""></ccyy>	Date	B14
Statistic Date	None	Date	B15
Filters	None		B16

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Generated	<ccyymmdd> <hh:mm:ss></hh:mm:ss></ccyymmdd>	Date & Time	B14
Column headings	(Statistics Date)	Text	A19- Q19
Column neadings	Detail	I GXL	_ Q19
Field Name	Detail	Field Type	Cells
		•	
Statistic Date		date	>=A20
Trade Date		date	>=B20
Trade Time		time	>=C20
Instrument		varchar(12)	>=D20
Yield		float	>=E20
Nominal		Integer	>=F20
All in price		float	>=G20
Consideration		float	>=H20
Carry Rate		float	>=I20
Trade Type		varchar(50)	>=J20
Buy Party		varchar(50)	>=K20
Sell Party		varchar(50)	>=L20
Settlement		Date	>=M20
Period		Varchar(50)	>=N20
Companion		Varchar(30)	>=O20
Spread		Decimal(18,9)	>=P20
Clean Price		Decimal (18.9)	>=Q20

CSV Report(s)

Report Name	TradeDetail_Daily <ccyymmdd>.csv</ccyymmdd>		
Report type	CSV		
Delimiter	comma ","		
Total rows	Varies		
Total columns	Fixed – 16		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	Trade Detail	Text	A1
Date Range	Trade Date	Date	B2
Date From	<ccyy dd="" mm=""></ccyy>	Date	B3
Date To	<ccyy dd="" mm=""></ccyy>	Date	B4
Statistic Date	None	Date	B5
Filters	None		B6
Generated	<ccyymmdd> <hh:mm:ss></hh:mm:ss></ccyymmdd>	Date & Time	B7
Column headings	(Statistics Date)	Text	A9-Q9
	Detail		
Field Name		Field Type	Cells
Statistic Date		date	>=A9
Trade Date		date	>=B9
Trade Time		time	>=C9
Instrument varchar(12) >=D9			>=D9
Yield		float	>=E9

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Nominal	Integer	>=F9
All in price	float	>=G9
Consideration	float	>=H9
Carry Rate	float	>=I19
Trade Type	varchar(50)	>=J9
Buy Party	varchar(50)	>=K9
Sell Party	varchar(50)	>=L9
Settlement	Date	>=M9
Period	Varchar(50)	>=N9
Companion	Varchar(30)	>=09
Spread	Decimal(18,9)	>=P9
Clean Price	Decimal (18.9)	>=Q9



5.15 INSTRUMENT DETAIL

5.15.1 Report Detail

This Report will be provided end of day for all trades reported on that day -note that this may affect statistics on previous days due to backdated trades. As such, there may be multiple rows for a particular instrument, each for different statistics dates. Where the report is run for a period longer than one day (i.e. weekly or monthly), it will include all trades which contribute to the statistics of that period, regardless of when they were reported.

Frequency of the report: Daily, Weekly, Monthly and Year-to-date (showing the aggregate statistics for that particular period).

5.15.2 Report Field Descriptions

STANDARD TURNOVER (SPOT ONLY) Statistics per trade type Header

STANDARD TURNOVER (INCLUDES

SPOT)

Statistics per trade type Header

REPO 1 TURNOVER Statistics per trade type Header

REPO 2 TURNOVER Statistics per trade type Header

TOTAL TURNOVER Statistics per trade type Header

STRUCTURED DEALS (SD) Statistics per trade type Header

FREE OF VALUE (FOV) Statistics per trade type Header

OPTION EXERCISE (OX) Statistics per trade type Header

OTHER Statistics per trade type Header

Date on which trade will be aggregated into statistics. STATISTIC DATE

Left blank when report is generated at a Statistic Date:

Summary level

Bond Code INSTRUMENT

Number of Trades. Can be negative for backdated Equal **DEALS**

and Opposites

Nominal amount of trade. Can be negative for backdated **NOMINAL**

Equal and Opposites

ZAR value of trade. Can be negative for backdated CONSIDERATION

Equal and Opposites

Number of Trades. . Can be negative for backdated **DEALS**

Equal and Opposites



NOMINAL Nominal amount of trade. Can be negative for backdated

Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative

DEALS Number of Trades for backdated Equal and Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated

Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

DEALS Number of Trades. Can be negative for backdated Equal

and Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated

Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

DEALS Number of Trades. Can be negative for backdated Equal

and Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated

Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

DEALS Number of Trades. Can be negative for backdated Equal

and Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated

Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

DEALS Number of Trades. Can be negative for backdated Equal

and Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated

Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

DEALS Number of Trades. . Can be negative for backdated

Equal and Opposites

<u>54.01</u>



NOMINAL Nominal amount of trade. Can be negative for backdated

Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

DEALS

Number of Trades Can be negative for backdated Equal

and Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated

Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative

5.15.3 Record Layout

Excel Report(s)

	InstrumentDetail_Daily <ccyymm< th=""><th></th><th></th></ccyymm<>		
Report Name	DD>.xls		
Sheet Name	Instrument Detail		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	Instrument Detail	Text	A11
Date Range	Trade Date	Date	B12
Date From	< CCYY/MM/DD>	Date	B13
Date To	< CCYY/MM/DD>	Date	B14
Statistic Date	Detail/ Summary	Date	B15
Filters	None		B16
Generated	<ccyymmdd> <hh:mm:ss></hh:mm:ss></ccyymmdd>	Date & Time	B17
Top Header Row	(Statistics Date)	varchar(100)	Row 19
Bottom Header Row		varchar(100)	Row 20
Data Starting Row			Row 21
Totals	Sum Total per column		Last Row
	Detail		
Field Name		Field Type	Cells
Standard Turnover (Spo	ot Only)	varchar(100)	C-D-E 20
Standard Turnover (incl	udes Spot)	varchar(100)	F-G-H 20
Repo 1 Turnover		varchar(100)	I-J-K 20
Repo 2 Turnover		varchar(100)	L-M-N 20
Total Turnover		varchar(100)	O-P-Q 20
Structured Deals (SD)		varchar(100)	R-S-T 20
Free of Value (FOV)		varchar(100)	U-V-W 20
Option Exercise (OX)		varchar(100)	X-Y-Z 20
Other		varchar(100)	AA-AB-AC 20
Statistic Date		Date	>=A 21

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Instrument	Varchar(12)	>=B 21
Deals	Integer	>=C 21
Nominal	Integer	>=D 21
Consideration	Float	>=E 21
Deals	Integer	>=F 21
Nominal	Integer	>=G 21
Consideration	Float	>=H 21
Deals	Integer	>=l 21
Nominal	Integer	>=J 21
Consideration	Float	>=K 21
Deals	Integer	>=L 21
Nominal	Integer	>=M 21
Consideration	Float	>=N 21
Deals	Integer	>=0 21
Nominal	Integer	>=P 21
Consideration	Float	>=Q 21
Deals	Integer	>=R 21
Nominal	Integer	>=S 21
Consideration	Float	>=T 21
Deals	Integer	>=U 21
Nominal	Integer	>=V 21
Consideration	Float	>=W 21
Deals	Integer	>=X 21
Nominal	Integer	>=Y 21
Consideration	Float	>=Z 21
Deals	Integer	>=AA 21
Nominal	Integer	>=AB 21
Consideration	Float	>=AC 21

CSV Report(s)

	InstrumentDetail_Daily <ccyymm< th=""><th></th><th></th></ccyymm<>		
Report Name	DD>.csv		
Report type	CSV		
Delimiter	comma ","		
Total rows	Varies		
Total			
columns	Fixed - 14		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	Instrument Detail	Text	A1
Date Range	Trade Date	Date	B2
Date From	< CCYY/MM/DD>	Date	B3
Date To	< CCYY/MM/DD>	Date	B94
Statistic Date	Detail/ Summary	Date	B5
Filters	None		B6
Generated	<ccyymmdd> <hh:mm:ss></hh:mm:ss></ccyymmdd>	Date & Time	B7
Top Header			
Row	(Statistics Date)	varchar(100)	Row 9

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Dettem	T		
Bottom Header Row		varchar(100)	Row 10
Data Starting		vaichai (100)	ROW TO
Row			Row 11
Totals	Sum Total per column		Last Row
	Detai		
Field Name	Dotai	Field Type	Cells
Standard Turnover (Spot Only)	varchar(100)	C-9
Standard Turnover (i		varchar(100)	F-9
Repo 1 Turnover	noiddes epot y	varchar(100)	I-9
Repo 2 Turnover		varchar(100)	L-9
Total Turnover		varchar(100)	O-9
Structured Deals (SI))	varchar(100)	R-9
Free of Value (FOV)	,	varchar(100)	U-9
Option Exercise (OX		varchar(100)	X-9
Other	,	varchar(100)	AA-9
Statistic Date		Date	>=A 11
Instrument		Varchar(12)	>=B 11
Deals		Integer	>=C 11
Nominal		Integer	>=D 11
Consideration		Float	>=E 11
Deals		Integer	>=F 11
Nominal		Integer	>=G 11
Consideration		Float	>=H 11
Deals		Integer	>= 11
Nominal		Integer	>=J 11
Consideration		Float	>=K 11
Deals		Integer	>=L 11
Nominal		Integer	>=M 11
Consideration		Float	>=N 11
Deals		Integer	>=O 11
Nominal		Integer	>=P 11
Consideration		Float	>=Q 11
Deals		Integer	>=R 11
Nominal		Integer	>=S 11
Consideration		Float	>=T 11
Deals		Integer	>=U 11
Nominal		Integer	>=V 11
Consideration		Float	>=W 11
Deals		Integer	>=X 11
Nominal		Integer	>=Y 11
Consideration		Float	>=Z 11
Deals		Integer	>=AA 11
Nominal		Integer	>=AB 11
Consideration		Float	>=AC 11



5.16 MEMBER/CLIENT POSITION

5.16.1 Report Detail

This report provides detail at a trade leg level per trade category (i.e. Buy and Sell shown separately) and shows the split between member/local client and foreign client transactions. The report replaces the Member Client Position tab in the Detailed Turnover Report. It contains two tabs-Member_ Client Overall and Member _ Client Instruments.

Frequency of Report: Daily, Weekly, Monthly and Year-to-date (showing the aggregate statistics for that particular period).

5.16.2 Report Field Descriptions

This report consists of two worksheets - 'Member Client Overall' and 'Member Client Instruments'.

Worksheet 1: Member Client Overall

STATISTICS DATE Date on which trade will be aggregated into statistics.

Left blank when report is generated at a Statistic Date:

Summary level

MEMBER/CLIENT Foreign Client, Member, Local Client

PARTY Buy or Sell

STANDARD TURNOVER (SPOT ONLY)

DEALS Number of Trades. Can be negative for backdated

Equal and Opposites

NOMINAL Nominal amount of trade. Can be negative for

backdated Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

STANDARD TURNOVER (Incl SPOT)

DEALS Number of Trades. Can be negative for backdated

Equal and Opposites

NOMINAL Nominal amount of trade. Can be negative for

backdated Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

REPO 1 TURNOVER

DEALS Number of Trades. Can be negative for backdated

Equal and Opposites

NOMINAL Nominal amount of trade. Can be negative for

backdated Equal and Opposites



CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

REPO 2 TURNOVER

DEALS Number of Trades. Can be negative for backdated

Equal and Opposites

NOMINAL Nominal amount of trade. Can be negative for

backdated Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

TOTAL TURNOVER

DEALS Number of Trades. Can be negative for backdated

Equal and Opposites

NOMINAL Nominal amount of trade. Can be negative for

backdated Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

STRUCTURED DEALS

DEALS Number of Trades. Can be negative for backdated

Equal and Opposites

NOMINAL Nominal amount of trade. Can be negative for

backdated Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

FREE OF VALUE

DEALS Number of Trades. Can be negative for backdated

Equal and Opposites

NOMINAL Nominal amount of trade. Can be negative for

backdated Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

OPTION EXERCISE

DEALS Number of Trades. Can be negative for backdated

Equal and Opposites

NOMINAL Nominal amount of trade. Can be negative for

backdated Equal and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated

Equal and Opposites

<u>OTHER</u>

OT_DEALS (Other Trades) Number of Trades. Can be negative

for backdated Equal and Opposites



OT_QUANTITY (Other Trades) Nominal traded. Can be negative for

backdated Equal and Opposites

OT_CONSIDERATION (Other Trades) ZAR value of trade. Can be negative

for backdated Equal and Opposites

5.16.3 Record Layout

Report Name | MemberClientPosDetail_Daily<CCYYMMDD>.xls

Excel Report(s)

Worksheet 1: Member_Client Position Overall

•	Memberchentrospetali_Daily https://www.nis.com/report.name			
Sheet Name	Sheet Name Member_Client Overall			
	Heading			
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell	
Report Title	Member/Client Pos: Summary	Text	A11	
Date Range	Trade Date	Date	B12	
Date From	<ccyymmdd></ccyymmdd>	Date	B13	
Date To	<ccyymmdd></ccyymmdd>	Date	B14	
Statistic Date	None	Date	B15	
Filters	None		B16	
Generated	<ccyymmdd> <hh:mm:ss></hh:mm:ss></ccyymmdd>	Date & Time	B17	
Top Header Row		Text	Row 19	
Bottom Header Row		Text	Row 20	
Data starting row			Row 21	
	Detail			
Field Name		Field Type	Cells	
Standard Turnover (Sp	oot Only)	varchar(100)	D-E-F19	
Standard Turnover (inc	cludes Spot)	varchar(100)	G-H-I19	
Repo 1 Turnover		varchar(100)	J-K-L19	
Repo 2 Turnover		varchar(100)	M-N-O19	
Total Turnover		varchar(100)	P-Q-R19	
Structured Deals		varchar(100)	S-T-U19	
Free of Value		varchar(100)	V-W-X19	
Option Exercise		varchar(100)	Y-Z-AA19	
Other		varchar(100)	AB-AC- AD19	
Statistic Date		Date	A20	
Member / Client		Text	B20	
Foreign Client		Text	B21	
Foreign Client		Text	B22	
Foreign Client		Text	B23	
Blank row			Row 24	
Local Client		Text	B25	
Local Client		Text	B26	
Local Client		Text	B27	
Blank row			Row 28	
Member		Text	B229	
Member		Text	B30	

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Member	Text	B31
Party	Text	C20
Buy	Text	C21
Sell	Text	C22
Net	Text	C23
Blank row		Row 24
Buy	Text	C25
Sell	Text	C26
Net	Text	C27
Blank row		Row 28
Buy	Text	C29
Sell	Text	C30
Net	Text	C31
Deals	Integer	D20
Nominal	Integer	E20
Consideration	Float	F20
Deals	Integer	G20
Nominal	Integer	H20
Consideration	Float	120
Deals	Integer	J20
Nominal	Integer	K20
Consideration	Float	L20
Deals	Integer	M20
Nominal	Integer	N20
Consideration	Float	O20
Deals	Integer	P20
Nominal	Integer	Q20
Consideration	Float	R20
Deals	Integer	S20
Nominal	Integer	T20
Consideration	Float	U20
Deals	Integer	V20
Nominal	Integer	W20
Consideration	Float	X20
Deals	Integer	Y20
Nominal	Integer	Z20
Consideration	Float	AA20
Deals	Integer	AB20
Nominal	Integer	AC20
Consideration	Float	AD20



CSV Report(s)

Report Name	MemberClientPosDetail_Daily <ccyymmi< th=""><th>DD>_a.csv</th><th></th></ccyymmi<>	DD>_a.csv		
	CSV			
	comma ","			
	Varies			
Total columns	Fixed - 30			
Heading				
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell	
Report Title	Member/Client Pos: Summary	Text	A1	
Date Range	Trade Date	Date	B2	
Date From	<ccyymmdd></ccyymmdd>	Date	B3	
Date To	<ccyymmdd></ccyymmdd>	Date	B4	
Statistic Date	None	Date	B5	
Filters	None		B6	
Generated	<ccyymmdd> <hh:mm:ss></hh:mm:ss></ccyymmdd>	Date & Time	B7	
Top Header		Text	Row 9	
Row Bottom Header		Text	Row 10	
Row		TEXI	KOW IO	
Data starting			Row 11	
row				
Detail				
Field Name		Field Type	Cells	
Standard Turnover (Sp	oot Only)	varchar(100)	D-9	
Standard Turnover (includes Spot)		varchar(100)	G-9	
Repo 1 Turnover		varchar(100)	J-9	
Repo 2 Turnover		varchar(100)	M-9	
Total Turnover		varchar(100)	P-9	
Structured Deals		varchar(100)	S-9	
Free of Value		varchar(100) varchar(100)	V-9	
	Option Exercise		Y-9	
Other		varchar(100)	AB-9	
Statistic Date		Date	A10	
Member / Client		Text	B10	
Foreign Client		Text	B11	
Foreign Client		Text	B12 B13	
Foreign Client Blank row		Text	Row 14	
Local Client		Text	B15	
Local Client		Text	B16	
Local Client Local Client		Text	B17	
Blank row		TOAL	Row 18	
Member		Text	B19	
Member		Text	B20	
Member		Text	B21	
Party		Text	C10	
Buy		Text	C11	
Sell		Text	C12	

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Net	Text	C13
Blank row		Row 14
Buy	Text	C15
Sell	Text	C16
Net	Text	C17
Blank row		Row 18
Buy	Text	C19
Sell	Text	C20
Net	Text	C21
Deals	Integer	D10
Nominal	Integer	E10
Consideration	Float	F10
Deals	Integer	G10
Nominal	Integer	H10
Consideration	Float	l10
Deals	Integer	J10
Nominal	Integer	K10
Consideration	Float	L10
Deals	Integer	M10
Nominal	Integer	N10
Consideration	Float	O10
Deals	Integer	P10
Nominal	Integer	Q10
Consideration	Float	R 10
Deals	Integer	S10
Nominal	Integer	T10
Consideration	Float	U10
Deals	Integer	V10
Nominal	Integer	W10
Consideration	Float	X10
Deals	Integer	Y10
Nominal	Integer	Z10
Consideration	Float	AA10
Deals	Integer	AB10
Nominal	Integer	AC10
Consideration	Float	AD10



Worksheet 2: MEMBER_CLIENT INSTRUMENTS

STATISTICS DATE Date on which trade will be aggregated into statistics. Left blank

when report is generated at a Statistic Date: Summary level

INSTRUMENT Bond Code

MEMBER/CLIENT Foreign Client, Member, Local Client

Buy or Sell

PARTY

STANDARD TURNOVER (SPOT ONLY)

DEALS Number of Trades

NOMINAL Nominal amount of trade. Can be negative for backdated Equal and

Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated Equal and

Opposites

STANDARD TURNOVER (Incl

SPOT)

DEALS Number of Trades. Can be negative for backdated Equal and

Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated Equal and

Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated Equal and

Opposites

REPO 1 TURNOVER

DEALS Number of Trades. Can be negative for backdated Equal and

Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated Equal and

Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated Equal and

Opposites

REPO 2 TURNOVER

DEALS Number of Trades. Can be negative for backdated Equal and

Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated Equal

and Opposites



CONSIDERATION ZAR value of trade. Can be negative for backdated Equal and

Opposites

TOTAL TURNOVER

DEALS Number of Trades. Can be negative for backdated Equal and

Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated Equal

and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated Equal and

Opposites

STRUCTURED DEALS

DEALS Number of Trades. Can be negative for backdated Equal and

Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated Equal

and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated Equal and

Opposites

FREE OF VALUE

DEALS Number of Trades. Can be negative for backdated Equal and

Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated Equal

and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated Equal and

Opposites

OPTION EXERCISE

DEALS Number of Trades. Can be negative for backdated Equal and

Opposites

NOMINAL Nominal amount of trade. Can be negative for backdated Equal

and Opposites

CONSIDERATION ZAR value of trade. Can be negative for backdated Equal and

Opposites

OTHER

<u>54.01</u>

OT_DEALS (Other Trades) Number of Trades. Can be negative for backdated

Equal and Opposites

OT_QUANTITY (Other Trades) Nominal traded. Can be negative for backdated

Equal and Opposites



Excel Report(s)

Worksheet 2: Member_Client Instruments

Report Name	MemberClientPosDetail_Daily <ccyymmdd>.xls</ccyymmdd>				
Sheet Name	Member_Client Instruments				
	Heading				
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell		
Report Title	Member/Client Pos: Instrument Detail	Text	A11		
Date Range	Trade Date	Date	B12		
Date From	<ccyymmdd></ccyymmdd>	Date	B13		
Date To	<ccyymmdd></ccyymmdd>	Date	B14		
Statistic Date	None	Date	B15		
Filters	None		B16		
Generated	<ccyymmdd> <hh:mm:ss></hh:mm:ss></ccyymmdd>	Date & Time	B17		
Top Header					
Row		Text	Row 19		
Bottom Header Row		Text	Pow 20		
Data starting		Text	Row 20		
row			Row 21		
	Detail				
Field Name	Dotaii	Field Type	Cells		
Standard Turnover (Spot Only)		varchar(100)	E-F-G19		
Standard Turnover (includes Spot)		varchar(100)	H-I-J19		
Repo 1 Turnover		varchar(100)	K-L-M19		
Repo 2 Turnover		varchar(100)	N-O-P19		
Total Turnover		varchar(100)	Q-R-S19		
Structured Deals		varchar(100)	T-U-V19		
Free of Value		varchar(100)	W-X-Y19		
Option Exercise		varchar(100)	Z-AA-AB19		
			AC-AD-		
Other		varchar(100)	AE19		
Statistic Date		Date	A21		
Instrument		VARCHAR(12)	B21		
Member/Client		VARCHAR(14)	C21		
Local Client		Text	Column C		
Local Repo		Text	Column C		
Foreign Client		Text	Column C		
Member		Text	Column C		
Party		Text	D21		
Buy		VARCHAR(4)	Column D		

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Sell	Text	Column D
Deals	Integer	E21
Nominal	Integer	F21
Consideration	Float	G21
Deals	Integer	H21
Nominal	Integer	I21
Consideration	Float	J21
Deals	Integer	K21
Nominal	Integer	L21
Consideration	Float	M21
Deals	Integer	N21
Nominal	Integer	O21
Consideration	Float	P21
Deals	Integer	Q21
Nominal	Integer	R 21
Consideration	Float	S21
Deals	Integer	T21
Nominal	Integer	U21
Consideration	Float	V21
Deals	Integer	W21
Nominal	Integer	X21
Consideration	Float	Y21
Deals	Integer	Z21
Nominal	Integer	AA21
Consideration	Float	AB21
Deals	Integer	AC21
Nominal	Integer	AD21
Consideration	Float	AE21

CSV Report(s)

Report Name	MemberClientPosDetail_Daily <ccyymmdd_b>.csv</ccyymmdd_b>		
Report type	CSV		
Delimiter	comma ","		
Total rows	Varies		
Total columns	Fixed - 31		
	Heading		
	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	Member/Client Pos: Instrument Detail	Text	A1
Date Range	Trade Date	Date	B2
Date From	<ccyymmdd></ccyymmdd>	Date	B3
Date To	<ccyymmdd></ccyymmdd>	Date	B4
Statistic Date	None	Date	B5
Filters	None		B6
Generated	<ccyymmdd> <hh:mm:ss></hh:mm:ss></ccyymmdd>	Date & Time	B7
Top Header			
Row		Text	Row 9

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JS≣

Field Type varchar(100)	Row 10 Row 11 Cells E9 H9 K9 N9 Q9 T9 W9 Z9 AC9
varchar(100) Date	Cells E9 H9 K9 N9 Q9 T9 W9 Z9
varchar(100) Date	E9 H9 K9 N9 Q9 T9 W9
varchar(100) Date	E9 H9 K9 N9 Q9 T9 W9
varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) Date	H9 K9 N9 Q9 T9 W9
varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) Date	K9 N9 Q9 T9 W9
varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) Date	N9 Q9 T9 W9 Z9
varchar(100) varchar(100) varchar(100) varchar(100) varchar(100) Date	Q9 T9 W9 Z9
varchar(100) varchar(100) varchar(100) varchar(100) Date	T9 W9 Z9
varchar(100) varchar(100) varchar(100) Date	W9 Z9
varchar(100) varchar(100) varchar(100) Date	Z9
varchar(100) Date	
Date	AC9
	1
VARCHAR(12)	A11
VAINOLIAIN(12)	B15
VARCHAR(14)	C11
Text	Column C
Text	D11
VARCHAR(4)	Column D
Text	Column D
Integer	E11
	F11
	G11
	H11
	I11
	J11
	K11
	L11
	M11
	N11
	O11
	P11
	Q11
	R11
Float	S11
	T11
	U11
	V11
	W11
	X11
	Y11
	Z11
	AA11
	VARCHAR(14) Text Text Text Text VARCHAR(4) Text Integer

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Consideration	Float	AB11
OT_Deals	Integer	AC11
OT_Quantity	Integer	AD11
OT_Consideration	Float	AE11



5.17 BONDS NON-RESIDENT

5.17.1 Report Detail

The new Bonds Non-Resident data product gives investors and analysts a breakdown of bond trading on the JSE by the residency status of the market participants.

This data product only considers those trades that have actually settled as opposed to all booked trades. This distinction is important, as reports based on booked trades, while a reflection of trading activity, are not reflective of the actual inflows and outflows in the bonds market i.e. what has actually changed hands, as some of the booked trades may be cancelled and others may fail to settle.

<u>Frequency of the data product: Daily, Weekly, Monthly and Yearly YTD, providing aggregate statistics for the specific period.</u>

The files are made available on the Bond FTP server under main folder "Bond Non-Resident" with the various period data files in the following sub-folders.

Daily Weekly Monthly Yearly

5.17.2 Report Field Descriptions

Bond Code Bond alpha code

Buy Value Rand value of bonds bought (All Trade Types)

Buy Quantity of bonds bought (All Trade Types)

 Sell Value
 Rand value of bonds sold (All Trade Types)

 Sell Quantity
 Quantity of bonds sold (All Trade Types)

Net Value Rand value of bonds traded (All Trade Types)

Buy Value Rand value of bonds bought (Standard Trade Type

Only)

Buy Quantity Only Quantity of bonds bought (Standard Trade Type

Only)

Sell Value Rand value of bonds sold (Standard Trade Type

Only)

Sell Quantity of bonds sold (Standard Trade Type

Only)

Net Value Standard Trade Type Only)

Offig)



Excel Files(s)

File Name	Bonds Non-Resident Trading <period> <ccyymmdd>.xls</ccyymmdd></period>		
	Solido Holl Hooken Hadaling Archicas Aco I Hilling Strikio		
	Period = "Daily' or "Weekly" or "Monthly"	<u>or "Yearly"</u>	
Sheet Name	Sheet 1		
Heading			
_	Actual/ <pattern>/(Example)</pattern>	Field Type	Cell
Report Title	Non-Resident Report	<u>Varchar</u>	<u>A1-C1</u>
Date Range	Settlement Date	<u>Date</u>	A2-B2
Date From	<ccyy dd="" mm=""></ccyy>	<u>Date</u>	<u>A3-B3</u>
Date To	<ccyy dd="" mm=""></ccyy>	<u>Date</u>	<u>A4-B4</u>
<u>Generated</u>	<ccyy dd="" mm=""> <hh:mm:ss></hh:mm:ss></ccyy>	Date & Time	<u>A5-B5</u>
Top Header Row		<u>Text</u>	Row 9
Bottom Header Row		<u>Text</u>	<u>Varies</u>
Data starting row		<u>Text</u>	Row 10
	<u>Detail</u>		
Field Name		Field Type	<u>Cells</u>
<u>BondCode</u>		<u>Alphanumeric</u>	<u>A9</u>
Total of all Trades			
<u>BuyValue</u>		<u>Number</u>	<u>B9</u>
Buy Quantity		<u>Number</u>	<u>C9</u>
Sell Value		<u>Number</u>	<u>D9</u>
Sell Quantity		<u>Number</u>	<u>E9</u>
Net Value		<u>Number</u>	<u>F9</u>
Standard Trades			
<u>BuyValue</u>		<u>Number</u>	<u>G9</u>
<u>BuyQuantity</u>		<u>Number</u>	<u>H9</u>
<u>SellValue</u>		<u>Number</u>	<u>19</u>
Sell Quantity		<u>Number</u>	<u>J9</u>
Net Value		Number	<u>K9</u>

CSV Files(s)

Report Name	Bonds Non-Resident Trading <period> <ccyymmdd>.csv</ccyymmdd></period>				
	Period = "Daily' or "Weekly" or "Monthly" or "Yearly"				
Report type	CSV				
<u>Delimiter</u>	comma ","	comma "."			
Total rows	Varies	Varies			
Total columns	Fixed - 11				
Heading					
_	Actual/ <pattern>/(Example) Field Type Row,Column</pattern>				
Report Title	Non-Resident Report	Varchar(100)	<u>A1-C1</u>		
Date Range	Settlement Date	<u>Date</u>	<u>A2-B2</u>		
Date From	<ccyy dd="" mm=""></ccyy>	<u>Date</u>	<u>A3-B3</u>		
Date To	<ccyy dd="" mm=""></ccyy>	<u>Date</u>	<u>A4-B4</u>		
<u>Generated</u>	<ccyy dd="" mm=""> <hh:mm:ss></hh:mm:ss></ccyy>	Date & Time	<u>A5-B5</u>		
Detail					

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Field Name	Field Type	<u>Cells</u>
Bond Code	<u>Alphanumeric</u>	<u>A9</u>
Buy Value	<u>Number</u>	<u>B9</u>
Buy Quantity	Number	<u>C9</u>
Sell Value	<u>Number</u>	<u>D9</u>
Sell Quantity	<u>Number</u>	<u>E9</u>
Net Value	<u>Number</u>	<u>F9</u>
Buy Value	<u>Number</u>	<u>G9</u>
Buy Quantity	<u>Number</u>	<u>H9</u>
Sell Value	<u>Number</u>	<u>19</u>
Sell Quantity	<u>Number</u>	<u>J9</u>
Net Value	<u>Number</u>	<u>K9</u>