INTEGRATED TRADING AND CLEARING (ITAC) GUIDANCE NOTE ON DATA MIGRATION APPROACH AND REFERENCE DATA FILES

NOVEMBER 2018

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1. REVISION HISTORY

Version	Description	Date
1.0	Initial release	30/07/2018
1.1	Changes in the Post ITaC go-live locations for Equity Markets. Changes in the note (***) for files in Derivative Markets.	02/08/2018
1.2	• Changes to cater for the IDP folder restructure in preparation for go live • Updated with the confirmed ITaC go-live timelines for reference data publishing.	27/11/2018

2. INTRODUCTION

Static trading reference data for the new JSE Trading and Clearing systems will be made available to clients on a daily basis via the JSE Information Delivery Portal (IDP). Clients have a need to start receiving actual production data leading up to ITaC go-live to enable them to incrementally build up their databases for go-live readiness.

This document describes the approach that will be followed, the content as well as the location where the data will be available.

3. ITAC REFERENCE DATA FILES

The reference data files are defined in the **Volume 09D – JSE Reference Data Management** document published at this link:
Volume09D - JSE Reference Data Management

Summary of the reference data files:

Filename	Description
Branches.csv	Includes Branches details
CalendarEntries.csv	Calendar entries confirming the different trading days per Calendar.
CorporateActionIndicatorTableEntries.csv	This includes the Ex Markers and Annotations per Instrument with Effective From Date and Effective To Date

CorporateActions.csv	This includes the Derivative Corporate Actions details
Currencies.csv	Trading Currency Data
Curve.csv	This includes the Forward Rate Agreement, Deposit, Curve, Curve Constituent, Surface and Interest Rate Swap details
CurveConstituent.csv	This includes the Forward Rate Agreement, Deposit, Curve, Curve Constituent, Surface and Interest Rate Swap details
Deposit.csv	This includes the Forward Rate Agreement, Deposit, Curve, Curve Constituent, Surface and Interest Rate Swap details
ExMarkers.csv	This includes all valid Ex-Markers and Annotations for the JSE and NSX Markets
Firms.csv	Equity and Derivative Members (Participant/Broker)
ForwardRateAgreement.csv	This includes the Forward Rate Agreement, Deposit, Curve, Curve Constituent, Surface and Interest Rate Swap details
Indices.csv	This includes the Index details and descriptions for JSE and NSX Indices
InstrumentsCalldelta.csv	This includes all the Call Delta Options. These instruments can only be created in the trading engine after go-live, so this file will be empty until go-live
InstrumentsEquity.csv	This file contains all equity instruments
InstrumentsFuture.csv	This file includes all futures, including CFDs and Basket futures. It contains futures for both EDM and FXM
InstrumentsFwdFwd.csv	This instrument type will not be available at go-live, so this file will remain empty
InstrumentsInvcalsprd.csv	This includes all Inverse Calendar Spreads
InstrumentsOption.csv	This file includes all options. It contains options for both EDM and FXM
InstrumentsPutdelta.csv	This includes all the Put Delta Options. These instruments can only be created in the trading engine after go-live, so this file will be empty until go-live
InstrumentsUnderlying.csv*	This includes underlying's that are not tradable on the JSE, e.g. international equities, forex pairs, baskets etc.
IRSwap.csv	This includes the Forward Rate Agreement, Deposit, Curve, Curve Constituent, Surface and Interest Rate Swap details
Markets.csv	Exchange defined Markets
NormalOrderBooks.csv	Order books per instrument and includes the trading cycle applicable for the day per instrument per order book

OffBookOrderBooks.csv	Order books per instrument and includes the trading cycle applicable for the day per instrument per order book
OrderBookPrivateRfq.csv	Order books per instrument and includes the trading cycle applicable for the day per instrument per order book
PostTradeParameters.csv	This includes the trade types and trade reporting policies per segment
SectorInstrument.csv	This includes the trading sector details per instrument
Segments.csv	This includes the segment details.
SessionParameterEntries.csv	This includes the session parameter entries per session
SessionReason.csv	This includes the session reasons codes and descriptions
Surface	This includes the Forward Rate Agreement, Deposit, Curve, Curve Constituent, Surface and Interest Rate Swap details
TickStructureEntries.csv	This includes the tick structure entries per Tick structure
TickStructures.csv	This includes the tick structure ID and descriptions
TimeZones.csv	This provides the time zone details
TraderGroups.csv	This includes all public trader group details
TraderIDs_XXX.csv	This file includes all Trader Group_TraderID combinations for a member firm
TradeTypeEntries.csv	This includes the trade type details per trade type
TradingParameters.csv	This includes various trading parameters per segment
WarrantsDetail.csv	This includes salient characteristics for all warrant instruments e.g. strike price, cover ratio etc.

***InstrumentsUnderlying.csv** will only include non JSE listed underlyings that have active derivatives listed on them. It is possible that the JSE Clearing System may contain some underlyings that are not reflected in this file. The reason for this is that the above user files are created based on the information in the JSE Trading System. Underlyings that are used for collateral or pricing will not be in the JSE Trading System as the collateral management activities are performed in the JSE Clearing System. The details of those underlying instruments can be found in the reference data flows of JSE Clearing System.

4. DATA MIGRATION APPROACH

The production instrument and client reference data including the final Instrument IDs, Contract Codes and ISIN's for all instruments, will be made available prior to ITaC go-live. Though the files will be delivered daily, the content will be as per the below approach.

JSE will issue a communication regarding the launch date. From that date, until two weeks prior to go-live:

- Any new instrument reference data created in Nutron will reflect in the ITaC reference data files within 3 - 5 business days
- A mapping spreadsheet will be provided on a weekly basis to assist clients in mapping the new instruments to the old instruments
- During this period options will not be included in the InstrumentsOption.csv file.

In the final two weeks before go-live, starting from 25 March 2019:

- Any new instrument reference data created in Nutron during the business day will reflect in the ITaC reference data files on the evening of the same day. The final delta of user created instruments for the day can only be added to the ITaC system after the Nutron EOD batch has completed for the day ~~within 1 business day i.e., the reference data files and the mapping spreadsheet published on date X will contain data as of close of business date X-1.~~
- A new mapping spreadsheet will also be made available daily
- During this period the options will be included in the InstrumentsOption.csv file
- The final delta of instruments will be added on the last business day before go-live, based on what is created in Nutron during that day.

Note: It was a business decision that Delta Options will never be exchange created – it can only be created by a user on the trading engine. As per business direction, the existing Delta Options will not be moved to the ITaC platform. Users can create them on MIT if they want to continue with them. Positions in respect of these delta options are held on the underlying instruments and will be migrated to the ITaC platform.

5. ITAC REFERENCE DATA FILES LOCATION

This section confirms the location of current reference data files, the files leading up to the deployment of ITaC as well as the post deployment.

Available connectivity options can be found at IDP Connectivity Document.pdf where you will then need to access the sub folder as per the below table:

Market	Files	Location details of Reference data files			
		Current Production	Pre-ITaC Go live	Dress Rehearsal	Post-ITaC Go live
Equity Market	Customer Test Service (CTS) files	\Equity Market CTS	\Equity Market CTS	**N/A**	\Equity Market CTS
	Production files	\Equity Market Prod	\Equity Market Prod	\Equity Market Prod	\Equity Market Prod
Derivative Markets	Customer Test Service (CTS) files***	**N/A**	\Derivatives Market~~s~~ CTS	**N/A**	\Derivatives Market~~s~~ CTS
	Production files***	**N/A**	\Derivatives Market Prod	\Derivatives Market Prod**	\Derivatives Market Prod
	End-To-End (ETE) Testing ***	**N/A**	\Derivatives Market ETE	**N/A**	\Derivatives Market ETE

Market	Files	Location details of Reference data files			
		Current Production	Pre-ITaC Go live	Dress Rehearsal	Post-ITaC Go live
Derivative Markets	TraderID – CTS files*	**N/A**	\Members\Member XXX\ TraderIDs CTS\TraderIDs_XXX.csv XXX- Private Member alpha code used on IDP where MemberXXX= Member's private folder on IDP	**N/A**	\Members\MemberXXX\ TraderIDs CTS\TraderIDs_XXX.csv XXX- Private Member alpha code used on IDP where Member XXX= Member's private folder on IDP
	TraderID - Production file*	**N/A**	The private member IDP folder in which the files are stored is called Members\Member XXX\ TraderIDs PROD\TraderIDs_XXX.csv XXX- Private Member alpha code used on IDP where Member XXX= Member's private folder on IDP and TraderIDs_XXX.csv= Member's private Trader ID file	The private member IDP folder in which the files are stored is called Members\Member XXX\ TraderIDs PROD\TraderIDs_XXX.csv XXX- Private Member alpha code used on IDP where Member XXX= Member's private folder on IDP and TraderIDs_XXX.csv= Member's private Trader ID file	The private member IDP folder in which the files are stored is called Members\Member XXX\ TraderIDs PROD\TraderIDs_XXX.csv XXX- Private Member alpha code used on IDP where Member XXX= Member's private folder on IDP and TraderIDs_XXX.csv= Member's private Trader ID file
	TraderID – ETE files*	**N/A**	\Members\MemberXXX\ TraderIDs ETE\TraderIDs_XXX.csv XXX- Private Member alpha code used on IDP where Member XXX= Member's private folder on IDP	**N/A**	\Members\MemberXXX\ TraderIDs ETE\TraderIDs_XXX.csv XXX- Private Member alpha code used on IDP where Member XXX= Member's private folder on IDP

Market	Files	Location details of Reference data files			
		Current Production	**Pre-ITaC Go live**	**Dress Rehearsal**	**Post-ITaC Go live**
	Mapping between Old and New Contract	**N/A**	https://www.jse.co.za/services/itac#OtherDocumentation For End-To-End testing an example: Mapping between Old and New Contract Codes_ETE_25Jun2018.xlsx where ETE = End-To-End testing Date = Date of the ETE file The frequency of providing updated ETE mapping spreadsheets is still to be confirmed.	https://www.jse.co.za/services/itac#OtherDocumentation For ITaC Market Dress Rehearsals an example: Mapping between Old and New Contract Codes_MDR_26May2018.xlsx where MDR = Market Dress Rehearsal Date = Date of the dress rehearsal. In the week prior to each ITaC dress rehearsal, we will publish the latest MDR version for the upcoming dress rehearsal.	**N/A**

* TraderID files are placed in the individual member private folders due to confidentiality.

For the ITaC Dress Rehearsals, on the Friday after the production end of day activities are concluded, the Dress Rehearsal files will be delivered to **"\Derivatives Market Prod". After the conclusion of end of day activities on the dress rehearsal day, the Dress Rehearsal files will be replaced with the production files.

*** These CSV files for the Derivative Markets will include both the Equity and Derivative Markets reference data files.

For additional information please contact the Customer Support team on:
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