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Integrated Trading & Clearing (ITaC) Working Group Market Data Focus

4 May 2017



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Project 1b (Equity Derivatives Market) & ITaC Project 1c (Currency Derivatives Market)

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Objective

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Material changes to the **Public Market Data** will take place. Not only to the type of data, but also the format and structures, as well as the way that the data will be made available.

This session is relevant to all parties that have an interest in the Public Market Data that will be made available in support of the Equity Derivatives and Currency Derivatives markets

Public Market Data is defined as market data (reference, pricing and other trade related data) that does not contain information that is confidential to a specific party. Public Market Data covers both Live and Non-Live Data

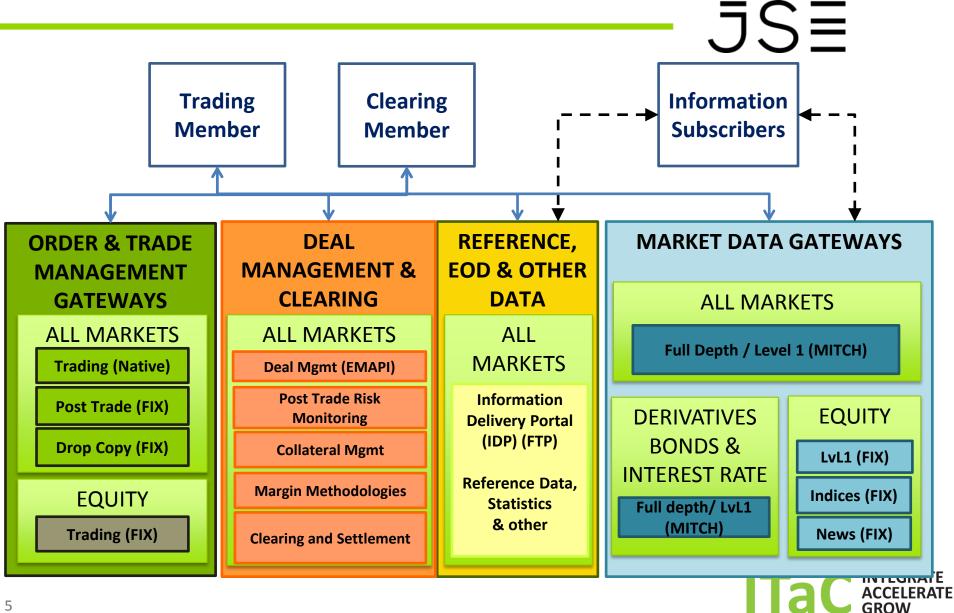
Live Market Data is data that is typically disseminated in a continuous manner (streaming) during the day.

Non-Live Market Data is data that is not Live Market Data. Non-Live data is typically produced at point in time during and after the trading day.

Delayed and **Historical** data are also classified as Non-Live Data.

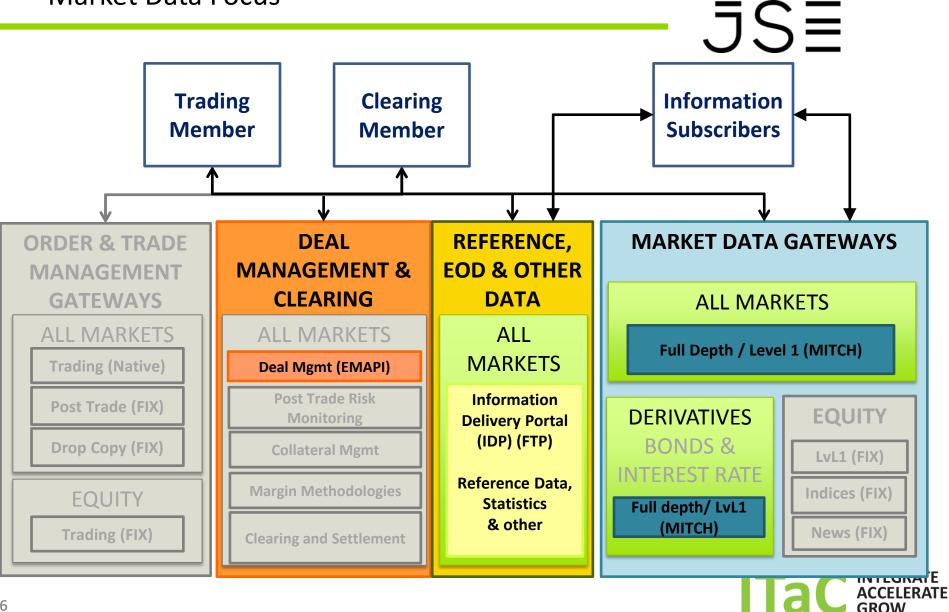


High Level Architectural Overview



High Level Architectural Overview

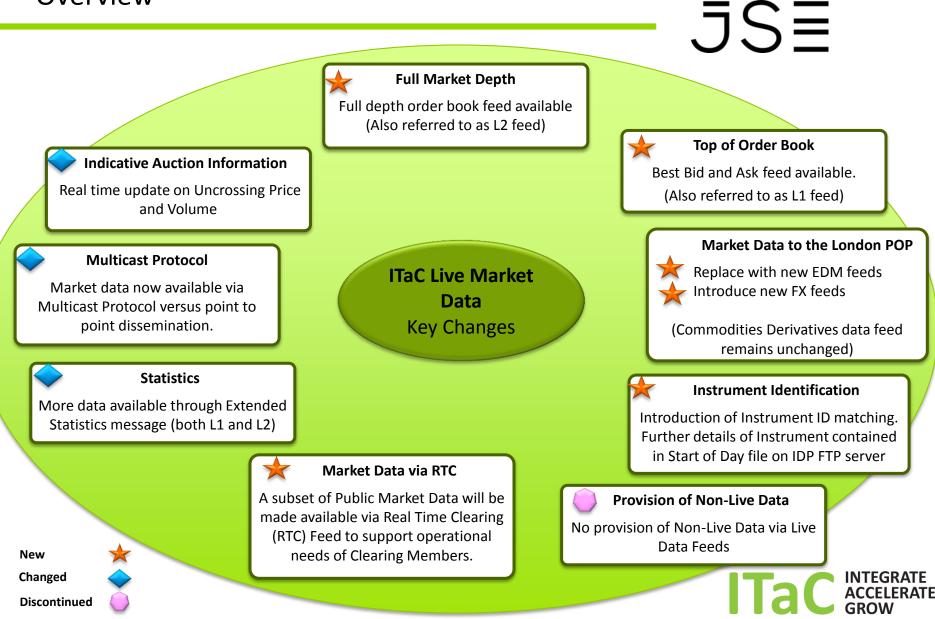
Market Data Focus





Changes to Live Data

Overview



Changes to Live Data Detail

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Changes to Live Data

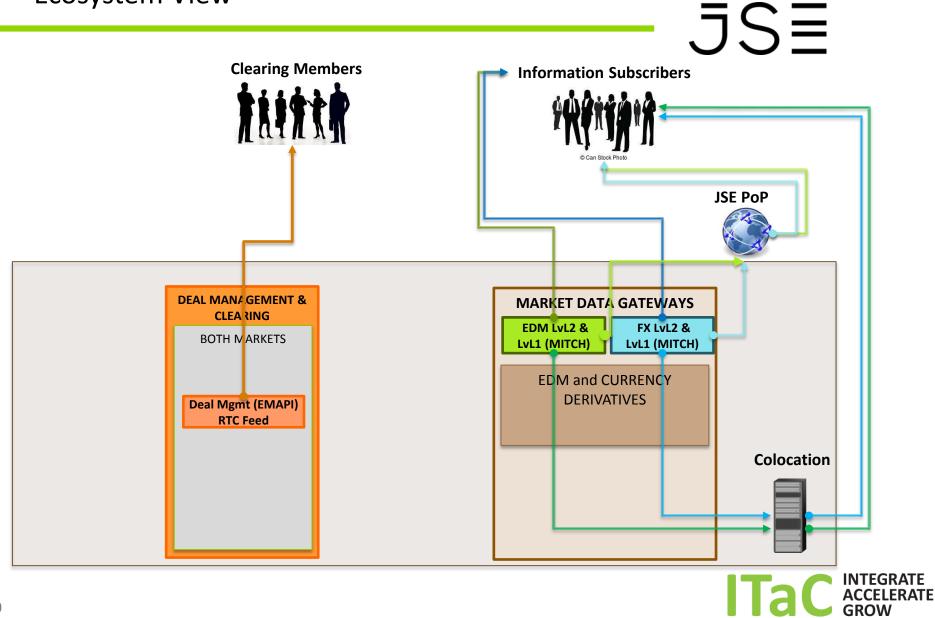
Changes to PoP Service

- Two types of MITCH based Live Data Feeds per market
- Full Depth (L2) Data Feed Throttled and Unthrottled
- Top (L1) of Book Data Feed
- Both feed types will include Extended Statistics
- The Extended Statistics message also includes three key Derivatives data values (Open Interest, Notional Exposure and Notional Delta Exposure)
- Non-Live Data will not be made available via the Live Data feeds
- Subset of Public Market Data made available via RTC Feed is to support the operational functioning of Clearing Members. Any other use of this Public Market Data will be need to be licensed separately. *Refer to the Volume PT02 – Post-trade EMAPI Clearing for further information*
 - Replacement of the current EDM Data feed (JSE Derivatives Market format) with the two new MITCH EDM Data feeds
 - Introduction of the two new MITCH FX Data Feeds.
 - All new data feeds will be Multicast MITCH format.
 - The existing Commodities data feed will continue unchanged.



Changes to Live Data

Ecosystem View



Changes to Live Data AS-IS to TO-BE

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Current EDM Live Feeds	New/Changed EDM Live Feeds	New/Changed FX Live Feeds	Current FX Live Feeds
•	Full Depth (L2) Tick by Tick Live	Full Depth (L2) Tick by Tick Live Arrow Tick Live Data Feed (Throttled)	Depth of 10 Snapshot feed
	Full Depth (L2) Tick by Tick Live Data Feed (Unthrottled)	Full Depth (L2) Tick by Tick Live Arrow Tick Live Data Feed (UnThrottled)	
	Top of Book (L1) Live Data Feed	Top of Book (L1) Live Data Feed	
available in DITCH format via JSE	Full Depth (L2) Tick by Tick Live Data Feed (Throttled) via POP Solution	Full Depth (L2) Tick by Tick Live Data Feed (throttled) via Pop Solution	No FX live data available via PoP Solution
	Full Depth (L2) Tick by Tick Live Data Feed (Unthrottled) via Pop Solution	Full Depth (L2) Tick by Tick Live Data Feed (Unthrottled) via Pop Solution	
	Non-Live data not available via live Feeds	Non-Live data not available via live Feeds	Non-Live Data available for download via Live Feed via special messages
(Download message 36, Mark to Market Rates (123), Daily Rates (124) and Early Valuations (127))			





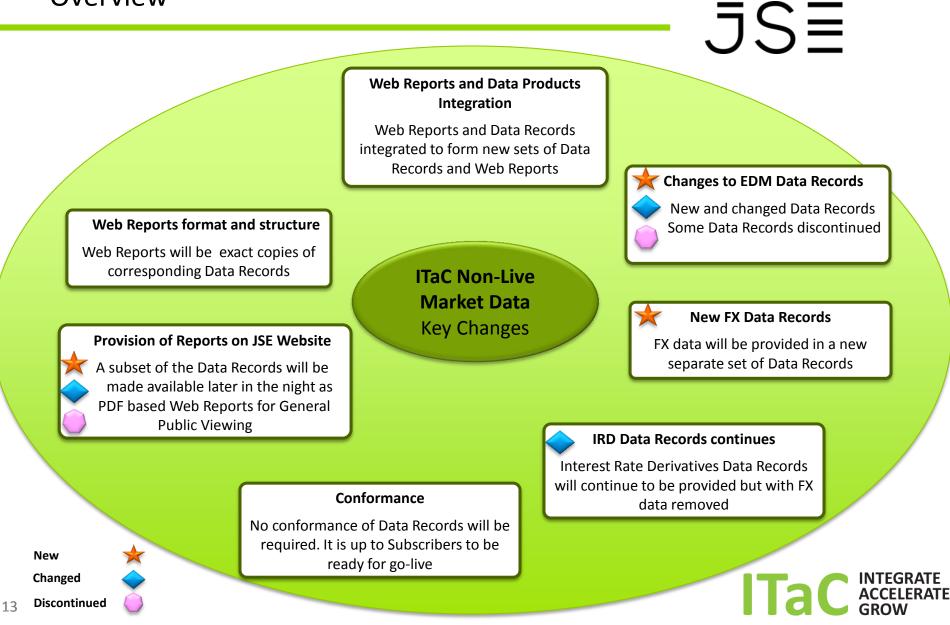
Changes to Non-Live Data

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Changes to Non-Live Data

Overview



Changes to Non-Live Data Detail

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Changes to Data Records

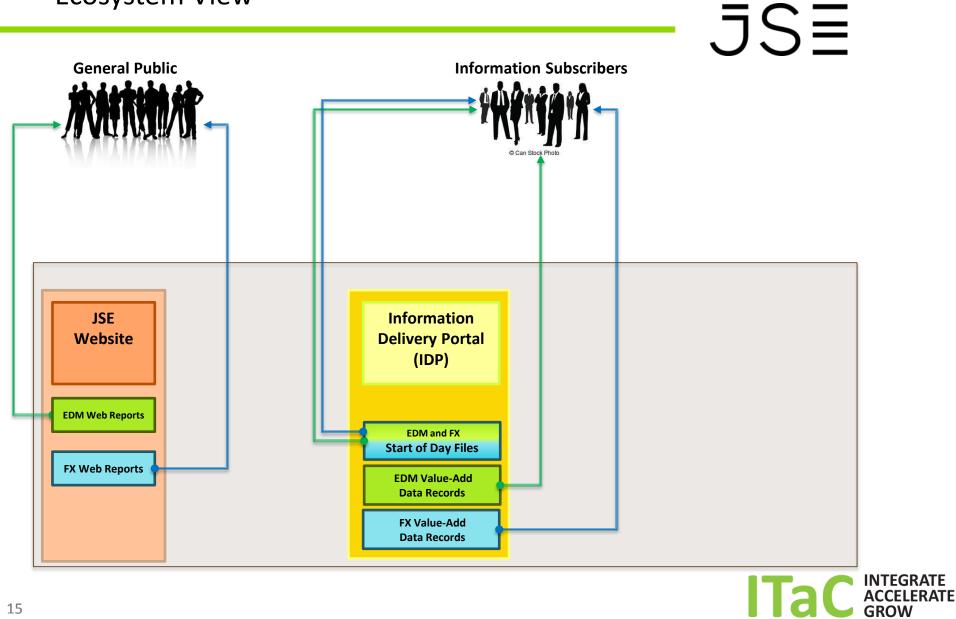
- FX data will move from being provided via IRC Data Records to new set of FX Data Records
- IR Derivatives data will continue to be provided via existing IRD Data Records
- 16 EDM Data Records will be made available
- 2 current EDM Data Records will be discontinued
- 13 FX Data Records will be made available

Changes to Web Reports

- A set of Web Reports will continue to be published on JSE website for General Public viewing
- Web reports will be provided in PDF form and most will be provided at midnight
- Web Reports will have same fields and same fields sequence as corresponding Data Records
- 10 EDM Web reports will be provided
- 5 current EDM Web Reports will be discontinued
- 9 FX Web Reports will be provided
- 5 current FX Web Reports will be discontinued

Changes to Non-Live Data

Ecosystem View



Changes to Non-Live Data AS-IS to TO-Be - Equity Derivatives

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Current	New/Changed	New/Changed	Current
Data Records	Data Records	Web Reports	Web Reports
•	Daily Traded Statistics – DED (D - 20:30)		EDM Daily Stats (D – 19:30)
	Daily Full Market Type Totals – SED (D – 20:30)		
Daily Full Market Overall Totals – OED (D – 19:30)	Daily Full Market Overall Totals – OED (D – 20:30)		
	Market Statistics – DED (D – 20:30)		
	South African Rates (D - 10:00, 11:00 and 20:30)	South African Rates (D - 10:00 and 11:00)	JIBAR Rates (D - 10:00 & 11:00)
	MTM All – MED (D - 20:30)	MTM All (D - midnight)	MTM All Report (D – 17:00)
Daily Traded Type Totals – SED (D – 19:30)			
Daily Traded Overall Totals – OED (D – 19:30)			
	Monthly Market Statistics – DED (M – 20:30)	Monthly Market Statistics (M – midnight)	EDM Monthly Market Statistics (M – 19:30)
	Weekly Full Market Statistics – DED (W – 20:30)		

New

16

Changed

Discontinued



Changes to Non-Live Data AS-IS to TO-Be - Equity Derivatives

Current Data Records	New/Changed Data Records	New/Changed Web Reports	JSE Current Web Reports
	Early MTM - MED (D - 15:30)		MTM Fair Report (D - 15:30)
	Margin Requirements - IED 💉 (F/N – 20:30)	Margin Requirements (F/N – midnight)	Margin Requirements (F/N – 19:30)
	Close Out Prices – CED (Q – 12:00)	Close Out Prices (Q – midnight)	Close Out Prices (Q – 12:00)
	Dividends - IED 💉 (D – 17:00)	Dividends (D – midnight)	Dividends (D – 17:00)
	Volatility Surfaces – LED (F/N – 15:30 and 17:30)	Volatility Surfaces (F/N – midnight)	Volatility Skew Indices (F/N – 19:30)
	All Contract Details – AED 💉 (D – 20:30)	All Contract Details (D – midnight)	All Contract Details (D – 19:30)
	Options Daily Traded – PED 🔆 (D – 20:30)	Options Daily Traded (D – midnight)	Options Daily Traded (D -19:30)
	Risk Parameters – ADD 🛛 🔶 🖈	Risk Parameters (D – midnight)	Risk Parameters (D -19:30)
			Anchor Volatility (D – 16:00)
			Volatility Skew Transpose (D – 16:00)
*			Volatility Skew SSF (D – 16:00)

Discontinued 17

weekly, F/N – Forthightly, IVI – Monthly, Q – Quarterly Dally, vv

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Changes to Non-Live Data AS-IS to TO-Be - Currency Derivatives

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Current	New/Changed	New/Changed	Current
Data Records	Data Records	Web Reports	Web Reports
Daily Traded Statistics - DIR (D - 19:30)	Daily Traded Statistics – DCD (D – 20:30)		
Daily Full Market Type Totals – SIR (D - 19:30)	Daily Full Market Type Totals – SCD (D – 20:30)		
Daily Full Market Overall Totals – OIR (D - 19:30)	Daily Full Market Overall Totals – OCD (D – 20:30)		
Daily Traded Type Totals – SIR (D - 19:30)			
Daily Traded Overall Totals – OIR (D - 19:30)			
Mark to Market – MIR (D - 19:30)	MTM All - Record Type MCD 🔷 (D – 17:00)	MTM All (D – 17:00)	5PM Daily Mark to Market (D – 17:00)
	Early MTM – MCD (D – 15:00)		3PM Currency Derivatives MTM (D - 15:30)
	Risk Parameters – ACD (D 20:30)	Risk Parameters (D – midnight)	Risk Array (D – 19:30)
	Daily Market Statistics – MCD (D – 20:30)	Daily Market Statistics (D – midnight)	YieldX Daily Stats (D – 19:30)
	Weekly Market Statistics – MCD (W – 20:30)	Weekly Market Statistics (W – midnight)	Weekly Market Statistics (W – 19:30)

New Changed Discontinued

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Changes to Non-Live Data AS-IS to TO-Be - Currency Derivatives

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INTEGRATE ACCELERATE

Current	New/Changed	New/Changed	Current
Data Records	Data Records	Web Reports	Web Reports
	(M – 20:30) Monthly Market	Monthly Market Statistics	Monthly Market Statistics
	Statistics – MCD	(M – midnight)	(M – 19:30)
	Margin Requirements – ICD	Margin Requirements	Margin Requirements
	(F/N – 20:30)	(F/N – midnight)	(F/N – 19:30)
	Rand Spot – CCD	Rand Spot	Rand Spot
	(D - 10:00 & 16:00)	(D - midnight)	(D – 10:00 & 17:00)
	Close Out Prices - CCD	Close Out Prices	Close out prices
	(Q - 12:00)	(Q - midnight)	(Q - 12:00)
	South African Rates – RCD	South African Rates	JIBAR Rates
	(D - 10:00, 11:00 and 20:30) 苯	(D - 10:00 & 11:00)	(D – 10:00 & 11:00)
			Daily Turnover Summary (D – 18:00)
			Daily Detailed Turnover (D – 18:00)
			HiLo (D: 18:00)
			MTM YieldX (D – 15:30)



Changes to Non-Live Data AS-IS to TO-Be - Detailed Change Impact Analysis

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An AS-IS to TO-BE Change Impact Analysis document (Excel) has been created for the convenience of Information Subscribers.

It maps out, in more detail, the changes to the Data records and Web reports.

Also included is a data field location matrix that lists each data element and indicating in which Data Records that will be made available and indicating the data record(s) where the data element is included.

Non-Live Market Data Products Change Impact Analysis



Summary of Key Value Points



INTEGRATE ACCELERATE

More Non-Live data, More data feed types will including reference data, Ľbe made available will be provided via new Data Record based products More data will be made Provision of Data Records available to International in standardised manner Information Subscribers via will lower complexity and the JSF PoP with the skills requirements addition of FX Data feeds Live feeds will be multicast MITCH format so more Subscribers to Data Records standardisation which will get proactive alerts if lowers complexity and skills delivery problems occur requirements Subscribers to Data Records will get advance notice, by means of formal notices, before changes are done **Covering Live and Non-Live Data** Usage via Data Agreement will mean that Information

Subscribers have certainty about

their data use rights



Legal and Commercials

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All Information Subscribers to the Live and Non-Live Data Products will be required to sign the JSE Data Agreement (JDA) which will stipulate the terms and conditions governing access and use of the Public Market Data

The subset of Public Market Data made available via RTC will also be covered by the data agreement so Clearing Members are also required to sign the JDA. Most Clearing members have already signed the JDA.

Information Subscribers that have already signed the JDA will just need to sign new/revised schedules

The data agreement must be completed and signed before go-live

To account for the cost in producing and supporting the Live and Non-Live Data Products, and taking into consideration the perceived value of the data, the JSE has is conducting a review to decide on the appropriate data fees which will be based on the different uses of the data

The applicable data fees will be communicated once the review exercise is complete so that Information Subscribers can make informed Data Product subscription decisions



Steps in the ITaC Journey



Reference Documentation

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Category	Document Name	Location	Latest Version Date
Live Market Data Specifications	Volume 05 – Market Data Gateway (MITCH – UDP)	https://www.jse.co.za/services/itac (under Trading Documentation)	6 March 2017
Non-Live Market Data Products Specifications	Equity Derivatives Non-Live Data Products Specifications	https://www.jse.co.za/services/itac (under Non-Live Market Data Products Specifications)	31 January 2017
	Currency Derivatives Non-Live Data Products Specifications	https://www.jse.co.za/services/itac (under Non-Live Market Data Products Specifications)	31 January 2017
	Non-Live Market Data Change Impact Analysis	https://www.jse.co.za/services/itac (under Non-Live Market Data Products Specifications)	4 May 2017
Public Market Data available via RTC Feed	Volume PT02 – Post-trade EMAPI Clearing	https://www.jse.co.za/services/itac (under Post-trade Documentation)	10 March 2017
Presentations	ITaC Market Data Working Group Presentation	https://www.jse.co.za/services/itac under ITAC presentations)	4 May 2017



Questions?

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Need help?



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