

# INTEGRATED TRADING AND CLEARING (ITAC)

Instrument Reference Data  
Quick Reference Guide



**ITaC** INTEGRATE  
ACCELERATE  
GROW

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## 1. Document Purpose

The Integrated Trading and Clearing (ITaC) project involves the migration of the Equity Derivatives and Currency Derivatives markets to the new trading, market data and post-trade technology of the JSE. This document explains the Instrument reference data standards and changes being introduced as part of the project.

This document should be read in conjunction with [Volume 09D – JSE Reference Data Management](#)

## 2. Document Information

|                     |                          |
|---------------------|--------------------------|
| <b>Drafted By</b>   | JSE Information Services |
| <b>Status</b>       | Final                    |
| <b>Version</b>      | 1.10                     |
| <b>Release Date</b> | 16 July 2018             |

## 3. Revision History

| <b>Date</b>    | <b>Version</b> | <b>Description</b>   |
|----------------|----------------|--|
| March 2017     | 1.0            | Initial document draft and release   |
| 12 April 2017  | 1.1            | Updated with the full list of ITaC Instrument Types and mapping to csv files   |
| 21 April 2017  | 1.2            | Added examples of all possible Contract Codes for each Instrument Type   |
| 8 May 2017     | 1.3            | Change made to the Contract Code convention for JSE Index and Options  |
| 17 May 2017    | 1.4            | Added a table to explain the Contract code defaults  |
| 30 August 2017 | 1.5            | Correction made on the instrument types created as a result of a Corporate Action. Single Stocks and International Equities on a basket underlying are created as a result of an Unbundling or Partial Conversion.<br>Also corrected Contract Code lengths where the example did not correspond to the length specified. The examples are correct. |

|                              |                      |   |
|------------------------------|----------------------|---|
| 18 September 2017            | 1.6                  | <p>Updated section 6.2 to show the Short Instrument type code for the Instrument type names so that the Non live Market data reports can clearly associate the short codes in the reports with the actual Instrument name</p> <p>Updated “<b>CONVENTION - STRUCTURED PRODUCTS OPTION</b>” to show the convention for Delta Options on Structured Products.</p>  |
| 8 November 2017              | 1.7                  | <p>Removed Instrument Type FWDFWD from scope for Project 1b and c go-live.</p> <p>Added Exotic Options on International Equity underlying in scope for Project 1b/1c go live</p>  |
| 05 March 2018                | 1.8                  | <p>Added the details for section 6.3 - Old to New Instrument Types Mapping to explain the mapping of Nutron Instrument type = IDXDIV to the new Instrument type in the Reference Data system. Also, explained the mapping of Nutron Instrument type = DIVF to the new instrument type</p> <p>Added Section 6.4 with an explanation around 2 Indices on the same underlying but having different strike Interval.</p>  |
| 04 July 2018                 | 1.9                  | <p>Added the section 5.1.1.3 and 5.1.2.3 to explain the Contract code convention for Inverse Calendar Spreads. Updated the Structured Product section to indicate that the ‘Incremental Number’ may in fact be an alphanumeric code, as per the data that has been published in previous Market Dress Rehearsals.</p> <p>Added the explanation for Corporate Action Identifier in the Contract code for Futures, Options and Inverse Calendar Spreads</p> <p>Updated the section about Index Strike intervals to reflect the final market decision.</p> |
| <a href="#">16 July 2018</a> | <a href="#">1.10</a> | <a href="#">Added a section to explain the two different types of CFDs loaded with different Base Rates.</a>  |

#### 4. Contact Details

|   |  |
|---|--|
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|---|--|

## 5. Instruments Identifiers

There are three unique instrument identifiers for derivative instruments

- Contract Code
- International Securities Identification Number (ISIN)
- Instrument ID

### 5.1 Contract Code

The new Contract Code in the ITaC solutions is an alphanumeric field (A-Z, a-z, 0-9) which is derived based on certain attributes of the system(s). This code is replacing the existing four characters Contract Code of the current legacy Derivatives system. A mapping will be provided between the old and the new Contract Codes for each instrument. The purpose of this field is to provide a clear and user friendly description of the instrument. Examples of a contract code are:

- 01DEC15 AGL PHY ANY DN
- 01DEC15 AGL PHY ANY 23.99C
- 17DEC15 GOOGL CSH
- 01DEC15 GOOGL CSH QUANTO 23.99C
- 17DEC15 ALSI MINI
- 01DEC15 USDZAR ANYDAY
- 17DEC15 USDZAR QUANTO 23.999C
- 15JUN17 USDZAR

The following conventions are used to derive the Contract Code for the various instrument types:

## 5.1.1 Equity Derivatives in ITaC

### 5.1.1.1 Futures

| CONVENTION - FUTURE - EQUITY DERIVATIVES  |                                    |                                |                |   |
|---|------------------------------------|--------------------------------|----------------|---|
| (e.g. 17DEC15 GOOGL CSH ANY DN MAXI)  |                                    |                                |                |   |
| Components of Contract Code   | Values                             | Example/Acronym                | Max Characters |   |
| Expiry Date   |                                    | '17DEC15                       | 7              |   |
|   |                                    |                                | 1              | Space   |
| Underlying Alpha Code   |                                    | AGL<br>ALSI<br>GOOGL<br>GOOGLQ | 6              |   |
|   |                                    |                                | 1              | Space   |
| Settlement type   | Cash                               | CSH                            | 3              |   |
|   | Physical                           | PHY                            |                |   |
|   |                                    |                                | 1              | Space   |
| Anyday Expiry (Note – this is only displayed for Anyday instruments)                  |                                    |                                | 3              |   |
|   | Anyday                             | ANY                            |                |   |
|   |                                    |                                | 1              | Space   |
| Detail (Note – this is only displayed if applicable)                                  | Dividend Neutral                   | DN                             | 6              |   |
|   | Quanto                             | QUANTO                         |                |   |
|   | Dividend Neutral Quanto            | DN QUA                         |                |   |
|   | CFD                                | CFD                            |                |   |
|   | Delta Option                       | DEL                            |                |   |
|   |                                    |                                | 1              | Space   |
| Local Deposit JSE Code (Only for CFD)   | SAFEY/RODI                         | SAFEY/RODI                     | 5              | The max characters is variable and will depend on the length of the JSE Code captured |
|   | SABOR                              | SABOR                          |                |   |
|   |                                    |                                | 1              | Space   |
| Contract Size Type (Note – if the Contract Size Type is 'Base', nothing is displayed) | Maxi                               | MAXI                           | 4              |   |
|   | Mini                               | MINI                           |                |   |
|   | Corporate Action Odd Contract Size | CA<#>*                         |                |   |
| <b>MAX LENGTH</b>   |                                    |                                | <b>40</b>      |   |

### 5.1.1.2 Options

| CONVENTION - OPTION - EQUITY DERIVATIVES  |                                    |                                |                |       |
|---|------------------------------------|--------------------------------|----------------|-------|
| (e.g. 01DEC15 GOOGL CSH DN QUA MAXI 23.999C)  |                                    |                                |                |       |
| Components of Contract Code   | Values                             | Example/Acronym                | Max Characters |       |
| Expiry Date   |                                    | 17DEC15                        | 7              |       |
|   |                                    |                                | 1              | Space |
| Underlying Alpha Code   |                                    | AGL<br>ALSI<br>GOOGL<br>GOOGLQ | 6              |       |
|   |                                    |                                | 1              | Space |
| Settlement type   | Cash                               | CSH                            | 3              |       |
|   | Physical                           | PHY                            |                |       |
|   |                                    |                                | 1              | Space |
| Anyday Expiry (Note – this is only displayed for Anyday instruments)                  |                                    |                                |                |       |
|   | Anyday                             | ANY                            | 3              |       |
|   |                                    |                                | 1              | Space |
| Detail (Note – this is only displayed if applicable)                                  | Dividend Neutral                   | DN                             | 6              |       |
|   | Quanto                             | QUANTO                         |                |       |
|   | Dividend Neutral Quanto            | DN QUA                         |                |       |
|   | CFD                                | CFD                            |                |       |
|   | Delta Option                       | DEL                            |                |       |
|   |                                    |                                | 1              | Space |
| Contract Size Type (Note – if the Contract Size Type is 'Base', nothing is displayed) | Maxi                               | MAXI                           | 4              |       |
|   | Mini                               | MINI                           |                |       |
|   | Corporate Action Odd Contract Size | CA<#>*                         |                |       |
|   |                                    |                                |                |       |
|   |                                    |                                | 1              | Space |
| Strike Price  |                                    | 124.67                         | 13             |       |
| Option Type   | Call                               | C                              | 1              |       |
|   | Put                                | P                              |                |       |
| <b>MAX LENGTH</b>   |                                    |                                | <b>49</b>      |       |



### 5.1.1.3 Inverse Calendar Spreads

| CONVENTION – Inverse Calendar Spreads - EQUITY DERIVATIVES                            |                                    |                                |                |        |
|---|------------------------------------|--------------------------------|----------------|--------|
| (e.g. 17SEP15/17DEC15 GOOGL CSH ANY DN MAXI)  |                                    |                                |                |        |
| Components of Contract Code   | Values                             | Example/Acronym                | Max Characters |        |
| Near Expiry Date  |                                    | 17SEP15                        | 7              |        |
|   |                                    | /                              | 1              | Filler |
| Far Expiry Date   |                                    | '17DEC15                       | 7              |        |
|   |                                    |                                | 1              | Space  |
| Underlying Alpha Code   |                                    | AGL<br>ALSI<br>GOOGL<br>GOOGLQ | 6              |        |
|   |                                    |                                | 1              | Space  |
| Settlement type   | Cash                               | CSH                            | 3              |        |
|   | Physical                           | PHY                            |                |        |
|   |                                    |                                | 1              | Space  |
| Anyday Expiry (Note – this is only displayed for Anyday instruments)                  | Anyday                             | ANY                            | 3              |        |
|   |                                    |                                | 1              | Space  |
| Detail (Note – this is only displayed if applicable)                                  | Dividend Neutral                   | DN                             | 6              |        |
|   | Quanto                             | QUANTO                         |                |        |
|   | Dividend Neutral Quanto            | DN QUA                         |                |        |
|   | CFD                                | CFD                            |                |        |
|   | Delta Option                       | DEL                            |                |        |
|   |                                    |                                | 1              | Space  |
| Contract Size Type (Note – if the Contract Size Type is 'Base', nothing is displayed) | Maxi                               | MAXI                           | 4              |        |
|   | Mini                               | MINI                           |                |        |
|   | Corporate Action Odd Contract Size | CA<#>*                         |                |        |
| <b>MAX LENGTH</b>   |                                    |                                | <b>42</b>      |        |

### 5.1.1.4 Structured Products

| CONVENTION - STRUCTURED PRODUCTS FUTURE |        |                 |                |       |
|---|--------|-----------------|----------------|-------|
| (e.g. 19DEC15 GOOGL EXF XS11)           |        |                 |                |       |
| Components of Contract Code             | Values | Example/Acronym | Max Characters |       |
| Expiry Date                             |        | '17DEC15        | 7              |       |
|   |        |                 | 1              | Space |

|  |                 |  |           |       |
|--|-----------------|--|-----------|-------|
| Underlying Alpha Code  |                 | AGL<br>ALSI<br>GOOGL<br>GOOGLQ<br>BSK001<br>AUDZAR<br>USDZAR<br>CADZAR<br>CADCNH | 6         |       |
|  |                 |  | 1         | Space |
| Settlement type  | Cash            | CSH  | 3         |       |
|  | Physical        | PHY  |           |       |
|  |                 |  | 1         | Space |
| Detail<br>(Note – this is only displayed if applicable)                          | Variance Future | VRF  | 3         |       |
|  | Exotic Option   | EXO  |           |       |
|  | Exotic Future   | EXF  |           |       |
|  |                 |  | 1         | Space |
| UniqueAlphanumeric code<br>(only applicable for Exotic Future and Exotic Option) |                 | XS11   | 4         |       |
| <b>MAX LENGTH</b>  |                 |  | <b>27</b> |       |

\* Any Tradable Instrument that has gone through a Corporate action, that results in a new contract size, will have a Contract Size Indicator with an incremental number appended to its Contract Code e.g. CA + '1', CA + '2' etc

The purpose of appending the Contract size indicator is to ensure that NO two tradable instruments with exactly the same instrument parameters but only different contract size will look the same.

| <b>CONVENTION - STRUCTURED PRODUCTS OPTION</b> |               |  |                       |       |
|--|---------------|--|-----------------------|-------|
| <b>(e.g. 01DEC15 BSK001 CSH 23.999C)</b>       |               |  |                       |       |
| <b>Components of Contract Code</b>             | <b>Values</b> | <b>Example/Acronym</b>   | <b>Max Characters</b> |       |
| Expiry Date                                    |               | '17DEC15   | 7                     |       |
|  |               |  | 1                     | Space |
| Underlying Alpha Code                          |               | AGL<br>ALSI<br>GOOGL<br>GOOGLQ<br>BSK001<br>AUDZAR<br>USDZAR<br>CADZAR<br>CADCNH | 6                     |       |
|  |               |  | 1                     | Space |
| Settlement type                                | Cash          | CSH  | 3                     |       |
|  | Physical      | PHY  |                       |       |
|  |               |  | 1                     | Space |

|   |               |        |           |       |
|---|---------------|--------|-----------|-------|
| Detail<br>(Note – this is only displayed if applicable)                           | Exotic Future | EXF    | 3         |       |
|   | Delta Option  | DEL    |           |       |
|   |               |        | 1         | Space |
| Unique Alphanumeric code<br>(only applicable for Exotic Future and Exotic Option) |               | XS11   | 4         |       |
|   |               |        | 1         | Space |
| Strike Price  |               | 124.67 | 13        |       |
| Option Type   | Call          | C      | 1         |       |
|   | Put           | P      |           |       |
| <b>MAX LENGTH</b>   |               |        | <b>42</b> |       |

## 5.1.2 Currency Derivatives

### 5.1.2.1 Futures

| CONVENTION - FUTURE - CURRENCY DERIVATIVES  |              |                                      |                |       |
|---|--------------|--------------------------------------|----------------|-------|
| (e.g. 17DEC15 AUDZAR QUANTO)  |              |                                      |                |       |
| Components of Contract Code   | Values       | Example/Acronym                      | Max Characters |       |
| Expiry Date   |              | '17DEC15                             | 7              |       |
|   |              |                                      | 1              | Space |
| Underlying Alpha Code   |              | AUDZAR<br>USDZAR<br>CADZAR<br>CADCNH | 6              |       |
|   |              |                                      | 1              | Space |
| Anyday Expiry (Note – this is only displayed for Anyday instruments)                  |              |                                      | 6              |       |
|   | Anyday       | ANYDAY                               |                |       |
|   |              |                                      | 1              | Space |
| Detail (Note – this is only displayed if applicable)                                  |              |                                      | 6              |       |
|   | Quanto       | QUANTO                               |                |       |
|   | Delta Option | DEL                                  |                |       |
|   |              |                                      | 1              | Space |
| Contract Size Type (Note – if the Contract Size Type is 'Base', nothing is displayed) |              |                                      | 4              |       |
|   | Maxi         | MAXI                                 |                |       |
| <b>MAX LENGTH</b>   |              |                                      | <b>33</b>      |       |

### 5.1.2.2 Options

| <b>CONVENTION - OPTION - CURRENCY DERIVATIVES</b>                                     |               |                                      |                       |       |
|---|---------------|--------------------------------------|-----------------------|-------|
| <b>(e.g. 01DEC15 AUDZAR QUANTO 23.999C)</b>   |               |                                      |                       |       |
| <b>Components of Contract Code</b>  | <b>Values</b> | <b>Example/Acronym</b>               | <b>Max Characters</b> |       |
| Expiry Date   |               | '17DEC15                             | 7                     |       |
|   |               |                                      | 1                     | Space |
| Underlying Alpha Code   |               | AUDZAR<br>USDZAR<br>CADZAR<br>CADCNH | 6                     |       |
|   |               |                                      | 1                     | Space |
| Anyday Expiry (Note – this is only displayed for Anyday instruments)                  | Anyday        | ANYDAY                               | 6                     |       |
|   |               |                                      | 1                     | Space |
| Detail (Note – this is only displayed if applicable)                                  | Quanto        | QUANTO                               | 6                     |       |
|   | Delta Option  | DEL                                  |                       |       |
|   |               |                                      | 1                     | Space |
| Contract Size Type (Note – if the Contract Size Type is 'Base', nothing is displayed) | Maxi          | MAXI                                 | 4                     |       |
|   |               |                                      | 1                     | Space |
| Strike Price  |               | 124.67                               | <b>13</b>             |       |
| Option Type   | Call          | C                                    | 1                     |       |
|   | Put           | P                                    |                       |       |
| <b>MAX LENGTH</b>   |               |                                      | <b>48</b>             |       |

### 5.1.2.3 Inverse Calendar Spreads

| CONVENTION – Inverse Calendar Spreads - EQUITY DERIVATIVES                            |              |                                      |                |        |
|---|--------------|--------------------------------------|----------------|--------|
| (e.g. 18SEP15/18DEC15 USDZAR CSH ANYDAY MAXI)   |              |                                      |                |        |
| Components of Contract Code   | Values       | Example/Acronym                      | Max Characters |        |
| Near Expiry Date  |              | 18SEP15                              | 7              |        |
|   |              | /                                    | 1              | Filler |
| Far Expiry Date   |              | '18DEC15                             | 7              |        |
|   |              |                                      | 1              | Space  |
| Underlying Alpha Code   |              | AUDZAR<br>USDZAR<br>CADZAR<br>CADCNH | 6              |        |
|   |              |                                      | 1              | Space  |
| Anyday Expiry (Note – this is only displayed for Anyday instruments)                  | Anyday       | ANYDAY                               | 6              |        |
|   |              |                                      | 1              | Space  |
| Detail (Note – this is only displayed if applicable)                                  | Quanto       | QUANTO                               | 6              |        |
|   | Delta Option | DEL                                  |                |        |
|   |              |                                      | 1              | Space  |
| Contract Size Type (Note – if the Contract Size Type is 'Base', nothing is displayed) | Maxi         | MAXI                                 | 4              |        |
| <b>MAX LENGTH</b>   |              |                                      | <b>41</b>      |        |

### 5.1.2.4 Structured Products

| <b>CONVENTION - STRUCTURED PRODUCTS FUTURE</b>                                    |                 |  |                       |       |
|---|-----------------|--|-----------------------|-------|
| <b>(e.g. 19DEC15 GOOGL EXF XS11)</b>  |                 |  |                       |       |
| <b>Components of Contract Code</b>  | <b>Values</b>   | <b>Example/Acronym</b>   | <b>Max Characters</b> |       |
| Expiry Date   |                 | '17DEC15   | 7                     |       |
|   |                 |  | 1                     | Space |
| Underlying Alpha Code   |                 | AGL<br>ALSI<br>GOOGL<br>GOOGLQ<br>BSK001<br>AUDZAR<br>USDZAR<br>CADZAR<br>CADCNH | 6                     |       |
|   |                 |  | 1                     | Space |
| Settlement type   | Cash            | CSH  | 3                     |       |
|   | Physical        | PHY  |                       |       |
|   |                 |  | 1                     | Space |
| Detail<br>(Note – this is only displayed if applicable)                           | Variance Future | VRF  | 3                     |       |
|   | Exotic Option   | EXO  |                       |       |
|   | Exotic Future   | EXF  |                       |       |
|   |                 |  | 1                     | Space |
| Unique Alphanumeric code<br>(only applicable for Exotic Future and Exotic Option) |                 | XS11   | 4                     |       |
| <b>MAX LENGTH</b>   |                 |  | <b>27</b>             |       |

| <b>CONVENTION - STRUCTURED PRODUCTS OPTION</b>                                    |               |  |                       |       |
|---|---------------|--|-----------------------|-------|
| <b>(e.g. 01DEC15 BSK001 CSH 23.999C)</b>  |               |  |                       |       |
| <b>Components of Contract Code</b>  | <b>Values</b> | <b>Example/Acronym</b>   | <b>Max Characters</b> |       |
| Expiry Date   |               | '17DEC15   | 7                     |       |
|   |               |  | 1                     | Space |
| Underlying Alpha Code   |               | AGL<br>ALSI<br>GOOGL<br>GOOGLQ<br>BSK001<br>AUDZAR<br>USDZAR<br>CADZAR<br>CADCNH | 6                     |       |
|   |               |  | 1                     | Space |
| Settlement type   | Cash          | CSH  | 3                     |       |
|   | Physical      | PHY  |                       |       |
|   |               |  | 1                     | Space |
| Detail<br>(Note – this is only displayed if applicable)                           | Exotic Future | EXF  | 3                     |       |
|   | Delta Option  | DEL  |                       |       |
|   |               |  | 1                     | Space |
| Unique Alphanumeric code<br>(only applicable for Exotic Future and Exotic Option) |               | XS11   | 4                     |       |
|   |               |  | 1                     | Space |
| Strike Price  |               | 124.67   | 13                    |       |
| Option Type   | Call          | C  | 1                     |       |
|   | Put           | P  |                       |       |
| <b>MAX LENGTH</b>   |               |  | <b>42</b>             |       |



### 5.1.3 Rules

The following table explains how to interpret the rules if certain values do not appear in the Contract Code. This applies to all the above Contract Code conventions

| <b>Market Number</b><br><i>1 EDM</i><br><i>2 FXM</i> | <b>Underlying Type</b> | <b>Underlying Alpha Code</b> | <b>Settlement Type</b><br><i>blank</i><br><i>CSH</i><br><i>PHY</i> | <b>AnyDay</b><br><i>blank</i><br><i>ANY</i>   | <b>Additional Features</b><br><i>blank</i><br><i>DN</i><br><i>QUANTO</i><br><i>DN QUA</i> | <b>Contract Size</b><br><i>blank</i><br><i>MAXI</i><br><i>MINI</i><br><i>SUPER</i> |
|--|------------------------|------------------------------|--|---|---|--|
| 1  | JSE Listed Equity      | Mandatory                    | If blank, assume CSH   | If blank, Standard expiry applies   | If blank, no additional features apply  | If blank, assume BASE  |
| 1  | JSE Index              | Mandatory                    | If blank, assume CSH   | If blank, Standard expiry applies   | If blank, no additional features apply  | If blank, assume BASE  |
| 1  | International Equity   | Mandatory                    | If blank, assume CSH   | If blank, Standard expiry applies except for Quanto, which can have any expiry date | If blank, no additional features apply  | If blank, assume BASE  |
| 1  | International Index    | Mandatory                    | If blank, assume CSH   | If blank, Standard expiry applies except for Quanto, which can have any expiry date | If blank, no additional features apply  | If blank, assume BASE  |
| 2  | FX Pair                | Mandatory                    | If blank, assume CSH   | If blank, Standard expiry applies   | If blank, no additional features apply  | If blank, assume BASE  |
| 2  | FX Index               | Mandatory                    | If blank, assume CSH   | If blank, Standard expiry applies   | If blank, no additional features apply  | If blank, assume BASE  |
| 1 or 2   | Basket                 | Mandatory                    | If blank, assume CSH   | Structured products can have any expiry date,                                       | If blank, no additional features apply  | If blank, assume BASE  |

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  | although they<br>are not called<br>Anydays. No<br>rule can be<br>built for this. |  |  |
|--|--|--|--|--|--|--|

## 5.2 ISIN

This is the International Security Identification Number that is assigned to each tradable instrument. This is an ISO standard for the unique identification of instruments worldwide.

The following convention is applied for derivative instruments in the Equity Derivatives market:

- Futures: ZAD...
- Options: ZAD<\*>...

The following convention is applied for derivative instruments in the Currency Derivatives market:

- Futures: ZAF...
- Options: ZAF<\*>...

\* The fourth character for options will start with 'A' and when all the numbers are used up, will increment to 'B', then 'C' etc. This is to cater for the large number of options that are created over time.

## 5.3 Instrument ID

Each instrument also has a unique number assigned to it. This number is unique across all the instruments in all the markets at the JSE.

## 6. Instrument Types

There are some changes to Instrument types introduced by ITaC. Some of the principle changes include the following:

- a. The correct Underlying names are used for all contracts e.g 17DEC15 ALMI will now be 17DEC15 ALSI MINI
- b. Many instrument types that are currently classified as Cando's will now have standardised instrument types and will not be part of 'Structured Products' e.g. Anydays and Quantos
- c. Dividend Neutral Changes  
 In the current system (Nutron) the Dividend Neutral is a virtual contract meaning that when the Dividend Neutral (N) contract is traded the system creates an equivalent SSF (Q) and Dividend Future (F) in equal amounts, for example:
  - a. Member A Buy 100 15 Jun17 AGLN
    - i. Member A long 100 15 Jun17 AGLQ
    - ii. Member A long 100 15 Jun17 AGLF

As the Dividend on AGL goes Ex on the underlying market the JSE processes a Journal transaction to accommodate the Dividend going EX on the Dividend Future. In the new ITaC implementation the Dividend Future will no longer exist as the Dividend Neutral contract will now be "one" contract and the Journal transaction will be processed on this contract.

The main reason for the removal of the Dividend Future is because when some Members roll over their SSF contracts to the next expiry they do not always roll the Dividend Future

### 6.1 Full list of Instrument Types

Below is the complete list of Instrument types that are in scope for ITaC Project 1b (Equity Derivatives) and ITaC Project 1c (Currency Derivatives).

All instrument types included in this table below will be effective and valid from the go-live of ITaC. i.e. they will be catered for in the ITaC functionality however may not all have an existing listing in the production environment on go-live, but can be introduced shortly thereafter.

The client instrument reference data csv files contain at least one record of every instrument type below except for user-created instruments as these are not generated by the JSE.

### 6.1.1 Equity Derivative Instrument Types

| <u>Underlying Type</u> | <u>Derivatives Tradable Instrument type</u>         | <u>User Created Instrument Only i.e. cannot be generated by JSE</u> | <u>Client Reference data (csv) file to source the data</u> |
|------------------------|---|---|--|
| JSE Listed Equity      | Single Stock Future                                 |   | Instruments Future   |
| JSE Listed Equity      | Single Stock Option                                 |   | Instruments Option   |
| JSE Listed Equity      | Single Stock AnyDay Future                          |   | Instruments Future   |
| JSE Listed Equity      | Single Stock AnyDay Option                          |   | Instruments Option   |
| JSE Listed Equity      | Single Stock Dividend Neutral Future                |   | Instruments Future   |
| JSE Listed Equity      | Single Stock Dividend Neutral AnyDay Future         |   | Instruments Future   |
| JSE Listed Equity      | CFD   |   | Instruments Future   |
| JSE Index              | Index Future  |   | Instruments Future   |
| JSE Index              | Index Option  |   | Instruments Option   |
| JSE Index              | Index AnyDay Future                                 |   | Instruments Future   |
| JSE Index              | Index AnyDay Option                                 |   | Instruments Option   |
| International Equity   | International Equity Future                         |   | Instruments Future   |
| International Equity   | International Equity AnyDay Future                  |   | Instruments Future   |
| International Equity   | International Equity Dividend Neutral Future        |   | Instruments Future   |
| International Equity   | International Equity Dividend Neutral AnyDay Future |   | Instruments Future   |
| International Equity   | International Equity Quanto Future                  |   | Instruments Future   |
| International Equity   | International Equity Quanto Option                  |   | Instruments Option   |
| International Equity   | International Equity Quanto Dividend Neutral Future |   | Instruments Future   |
| International Index    | International Index Future                          |   | Instruments Future   |
| International Index    | International Index Option                          |   | Instruments Option   |

| <u>Underlying Type</u> | <u>Derivatives Tradable Instrument type</u>           | <u>User Created Instrument Only i.e. cannot be generated by JSE</u> | <u>Client Reference data (csv) file to source the data</u>                 |
|------------------------|---|---|--|
| International Index    | International Index AnyDay Future                     |   | Instruments Future   |
| International Index    | International Index AnyDay Option                     |   | Instruments Option   |
| International Index    | International Index Quanto Future                     |   | Instruments Future   |
| International Index    | International Index Quanto Option                     |   | Instruments Option   |
| JSE Listed Equity      | Single Stock Inverse Calendar Spread                  |   | Instruments Inverse Calendar Spread  |
| JSE Listed Equity      | Single Stock Dividend Neutral Inverse Calendar Spread |   | Instruments Inverse Calendar Spread  |
| JSE Listed Equity      | Single Stock Delta Option                             | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| JSE Listed Equity      | Single Stock Anyday Delta Option                      | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| JSE Index              | Index Inverse Calendar Spread                         |   | Instruments Inverse Calendar Spread  |
| JSE Index              | Index Delta Option                                    | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| JSE Index              | Index Anyday Delta Option                             | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| International Equity   | International Equity Inverse Calendar Spread          |   | Instruments Inverse Calendar Spread  |
| International Equity   | International Equity Dividend Neutral                 |   | Instruments Inverse Calendar Spread  |

| <u>Underlying Type</u>  | <u>Derivatives Tradable Instrument type</u> | <u>User Created Instrument Only i.e. cannot be generated by JSE</u> | <u>Client Reference data (csv) file to source the data</u>                 |
|---|---|---|--|
|   | Inverse Calendar Spread                     |   |  |
| International Equity  | International Equity Quanto Delta Option    | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| International Index   | International Index Inverse Calendar Spread |   | Instruments Inverse Calendar Spread  |
| International Index   | International Index Delta Option            | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| International Index   | International Index Anyday Delta Option     | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| International Index   | International Index Quanto Delta Option     | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| Basket  | Basket Future                               |   | Instruments Future   |
| Basket  | Option on Basket Future                     |   | Instruments Option   |
| Basket  | Exotic Future                               |   | Instruments Future   |
| Basket  | Exotic Option                               |   | Instruments Future   |
| JSE Equity  | Exotic Option                               |   | Instruments Future   |
| JSE Index   | Exotic Option                               |   | Instruments Future   |
| International Index   | Exotic Option                               |   | Instruments Future   |
| International Equity  | Exotic Option                               |   | Instruments Future   |
| Basket (created as a result of an Unbundling or Partial Conversion) | Single Stock Future                         |   | Instruments Future   |
| Basket (created as a  | Single Stock Dividend                       |   | Instruments Future   |

| <u>Underlying Type</u>  | <u>Derivatives Tradable Instrument type</u>           | <u>User Created Instrument Only i.e. cannot be generated by JSE</u> | <u>Client Reference data (csv) file to source the data</u>                 |
|---|---|---|--|
| result of an Unbundling or Partial Conversion)                        | Neutral Future  |   |  |
| Basket (created as a result of a an Unbundling or Partial Conversion) | Single Stock AnyDay Future                            |   | Instruments Future   |
| Basket (created as a result of an Unbundling or Partial Conversion)   | Single Stock AnyDay Option                            |   | Instruments Option   |
| Basket (created as a result of an Unbundling or Partial Conversion)   | Single Stock Option                                   |   | Instruments Option   |
| Basket (created as a result of an Unbundling or Partial Conversion)   | Single Stock Dividend Neutral AnyDay Future           |   | Instruments Future   |
| Basket (created as a result of an Unbundling or Partial Conversion)   | Single Stock AnyDay Future                            |   | Instruments Future   |
| Basket (created as a result of an Unbundling or Partial Conversion)   | Single Stock Inverse Calendar Spread                  |   | Instruments Inverse Calendar Spread  |
| Basket (created as a result of an Unbundling or Partial Conversion)   | Single Stock Dividend Neutral Inverse Calendar Spread |   | Instruments Inverse Calendar Spread  |
| Basket (created as a result of an Unbundling or Partial Conversion)   | Single Stock Delta Option                             | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| Basket (created as a result of an Unbundling or Partial Conversion)   | Single Stock Anyday Delta Option                      | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| Basket (created as a result of an Unbundling or Partial Conversion)   | International Equity Future                           |   | Instruments Future   |
| Basket (created as a result of an Unbundling or Partial Conversion)   | International Equity AnyDay Future                    |   | Instruments Future   |



| <u>Underlying Type</u>  | <u>Derivatives Tradable Instrument type</u>                   | <u>User Created Instrument Only i.e. cannot be generated by JSE</u> | <u>Client Reference data (csv) file to source the data</u>                 |
|---|---|---|--|
| Basket (created as a result of an Unbundling or Partial Conversion) | International Equity Dividend Neutral Future                  |   | Instruments Future   |
| Basket (created as a result of an Unbundling or Partial Conversion) | International Equity Dividend Neutral AnyDay Future           |   | Instruments Future   |
| Basket (created as a result of an Unbundling or Partial Conversion) | International Equity Quanto Dividend Neutral Future           |   | Instruments Future   |
| Basket (created as a result of an Unbundling or Partial Conversion) | International Equity Quanto Future                            |   | Instruments Future   |
| Basket (created as a result of an Unbundling or Partial Conversion) | International Equity Quanto Option                            |   | Instruments Option   |
| Basket (created as a result of an Unbundling or Partial Conversion) | International Equity Inverse Calendar Spread                  |   | Instruments Inverse Calendar Spread  |
| Basket (created as a result of an Unbundling or Partial Conversion) | International Equity Dividend Neutral Inverse Calendar Spread | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |
| Basket (created as a result of an Unbundling or Partial Conversion) | International Equity Quanto Delta Option                      | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |

## 6.1.2 Currency Derivative Instrument Types

| <u>Underlying Type</u> | <u>Tradable Instrument type</u>           | <u>User Created Instrument Only i.e. cannot be generated by JSE</u> | <u>Client Reference data (csv) file to source the data</u>                 |
|------------------------|---|---|--|
| Forex Pair             | Forex Future                              |   | Instruments Future   |
| Forex Pair             | Forex Option                              |   | Instruments Option   |
| Forex Pair             | Forex AnyDay Future                       |   | Instruments Future   |
| Forex Pair             | Forex AnyDay Option                       |   | Instruments Option   |
| Forex Pair             | Quanto Forex Future                       |   | Instruments Future   |
| Forex Pair             | Quanto Forex Option                       |   | Instruments Option   |
| Forex Pair             | Quanto Forex AnyDay Future                |   | Instruments Future   |
| Forex Pair             | Quanto Forex AnyDay Option                |   | Instruments Option   |
| Forex Pair             | Inverted Currency Future                  |   | Instruments Future   |
| Forex Pair             | Inverted Currency Option                  |   | Instruments Option   |
| Forex Pair             | FWDFWDFX Future                           |   | Instruments FWDFWD   |
| Forex Index            | Forex Index Future                        |   | Instruments Future   |
| Forex Pair             | Exotic Option                             |   | Instruments Future   |
| Forex Pair             | Inverse Calendar Spread on Forex Futures  |   | Instruments Inverse Calendar Spread  |
| Forex Pair             | Delta Option on Forex Futures and Options | Yes   | Instruments Call Delta Option<br><b>OR</b><br>Instruments Put Delta Option |

## 6.2 Contract Codes per Instrument Type

The below table will show all the variations of Contract Codes for each Instrument Type described in section 6.1. Please note that for each instrument type only one underlying instrument is shown in the example, e.g. AGL for Single Stocks, ALSI for Index derivatives. This value will be different for each individual underlying instrument.

Please also note that MINI or MAXI contracts will only be applicable to Instrument types where the Underlying Type is JSE Index or Forex Pair as indicated below, and it will not apply to Anydays.

For derivatives with a JSE Index as the underlying instrument, the old Safex code will be used to indicate the underlying, instead of the underlying itself. For example, the contract code will show ALMI and not ALSI for the ALSI Mini contracts, even though the ALSI is the actual underlying instrument. This is to avoid duplication in scenarios where the same underlying is used for a different type of product e.g. the standard ALSI and the ALSI TRI. This will not impact the structure of the Contract code; only the content of the 'Underlying' portion will be different.

### 6.2.1 Equity Derivative Instrument Types

| Underlying Type      | Derivatives Tradable Instrument Types       | Example Contract Codes        | Instrument Type Code |
|----------------------|---|-------------------------------|----------------------|
| JSE Listed Equity    | Single Stock Future                         | 15DEC17 AGL PHY               | SSF1                 |
| JSE Listed Equity    | Single Stock Option                         | 15DEC17 AGL PHY<br>23.99C     | SSO1                 |
| JSE Listed Equity    | Single Stock AnyDay Future                  | 01DEC17 AGL PHY ANY           | SSAF1                |
| JSE Listed Equity    | Single Stock AnyDay Option                  | 01DEC17 AGL PHY ANY<br>23.99C | SSAO1                |
| JSE Listed Equity    | Single Stock Dividend Neutral Future        | 15DEC17 AGL PHY DN            | SSDN1                |
| JSE Listed Equity    | Single Stock Dividend Neutral AnyDay Future | 01DEC17 AGL PHY ANY<br>DN     | SSDN3                |
| JSE Listed Equity    | CFD   | 15MAR18 AGL CSH<br>CFD SAFEY  | CFD                  |
| JSE Index            | Index Future                                | 15DEC17 ALSI                  | IF                   |
|                      |   | 15DEC17 ALMI MINI             |                      |
| JSE Index            | Index Option                                | 15DEC17 ALSI 23.99P           | IO                   |
|                      |   | 15DEC17 ALMI MINI<br>23.99P   |                      |
| JSE Index            | Index AnyDay Future                         | 01DEC17 ALSX ANY              | IAF                  |
| JSE Index            | Index AnyDay Option                         | 01DEC17 ALSX ANY<br>23.99P    | IAO                  |
| International Equity | International Equity Future                 | 15DEC17 GOOGL CSH             | IEF1                 |

|                      |   |   |       |
|----------------------|---|---|-------|
| International Equity | International Equity AnyDay Future                  | 01DEC17 GOOGL CSH ANY   | IEAF1 |
| International Equity | International Equity Dividend Neutral Future        | 15DEC17 GOOGL CSH DN  | IEDN1 |
| International Equity | International Equity Dividend Neutral AnyDay Future | 01DEC17 GOOGL CSH ANY DN  | IEDN3 |
| International Equity | International Equity Quanto Future                  | 01DEC17 GOOGLQ CSH QUANTO<br>*Note - For Quantos the underlying code will be suffixed with a 'Q'        | IEQF1 |
| International Equity | International Equity Quanto Option                  | 01DEC17 GOOGLQ CSH QUANTO 23.99C<br>*Note - For Quantos the underlying code will be suffixed with a 'Q' | IEQ1  |
| International Equity | International Equity Quanto Dividend Neutral Future | 01DEC17 GOOGL CSH DN QUA<br>*Note - For Quantos the underlying code will be suffixed with a 'Q'         | IEQD1 |
| International Index  | International Index Future                          | 15DEC17 GDOW  | IIF   |
| International Index  | International Index Option                          | 15DEC17 GDOW 23.99C   | IIO   |
| International Index  | International Index AnyDay Future                   | 01DEC17 GDOW ANY  | IIAF  |
| International Index  | International Index AnyDay Option                   | 01DEC17 GDOW ANY 23.99C   | IIAO  |
| International Index  | International Index Quanto Future                   | 01DEC17 GDOWQ QUANTO<br>*Note - For Quantos the underlying code will be suffixed with a 'Q'             | IIQF  |
| International Index  | International Index Quanto Option                   | 01DEC17 GDOWQ QUANTO 23.99C<br>*Note - For Quantos the underlying code will be suffixed with a 'Q'      | IIQO  |
| JSE Listed Equity    | Single Stock Inverse Calendar Spread                | 15DEC17/15MAR18 AGL CSH   | ICS1  |

|                      |   |   |        |
|----------------------|---|---|--------|
| JSE Listed Equity    | Single Stock Dividend Neutral Inverse Calendar Spread         | 15DEC17/15MAR18<br>AGL CSH DN               | ICS2   |
| JSE Listed Equity    | Single Stock Delta Option                                     | 15DEC17 AGL PHY DEL<br>3.97P                | DO1    |
| JSE Listed Equity    | Single Stock Anyday Delta Option                              | 15DEC17 AGL PHY ANY<br>DEL 18.9P            | DO2    |
| JSE Index            | Index Inverse Calendar Spread                                 | 15DEC17/15MAR18<br>ALSI CSH                 | ICS3   |
|                      |   | 15DEC17/15MAR18<br>ALSI CSH MINI            |        |
| JSE Index            | Index Delta Option  | 15MAR18 ALSI CSH<br>DEL 46183P              | DO5    |
|                      |   | 15MAR18 ALSI CSH<br>DEL MINI 46183P         |        |
| JSE Index            | Index Anyday Delta Option                                     | 30JUN17 ALSI CSH<br>ANY DEL 156C            | DO6    |
| International Equity | International Equity Inverse Calendar Spread                  | 15DEC17/15MAR18<br>GOOGL CSH                | ICS5   |
| International Equity | International Equity Dividend Neutral Inverse Calendar Spread | 15DEC17/15MAR18<br>GOOGL CSH DN             | ICS6   |
| International Equity | International Equity Quanto Delta Option                      | 30JUN17 GOOGLQ<br>CSH QUANTO DEL<br>25.57P  | DO12   |
| International Index  | International Index Inverse Calendar Spread                   | 15DEC17/15MAR18<br>GDOW CSH                 | ICS9   |
| International Index  | International Index Delta Option                              | 15DEC17 GDOW CSH<br>DEL 23.99P              | DO14   |
| International Index  | International Index Anyday Delta Option                       | 30JUN17 GDOW CSH<br>ANY DEL 156.35C         | DO15   |
| International Index  | International Index Quanto Delta Option                       | 30JUN17 GDOWQ CSH<br>QUANTO DEL<br>1599.37P | DO18   |
| Basket               | Basket Future   | 15DEC17 BSK001 CSH<br>BSF_196               | BFF1   |
| Basket               | Option on Basket Future                                       | 15DEC17 BSK001 CSH<br>23.999C               | BFO1   |
| Basket               | Delta Option on Basket Future                                 | 15DEC17 BSK001 CSH<br>DEL 23.999C           | BSKDO1 |
| Basket               | Exotic Future   | 17DEC15 BSK001 CSH<br>EXF_195               | EFF1   |
| Basket               | Exotic Option   | 15DEC17 BSK001 CSH<br>EXO_195               | EOF1B2 |
| JSE Equity           | Exotic Option   | 15DEC17 AGL CSH<br>EXO_195                  | EOF2   |
| JSE Index            | Exotic Option   | 17DEC15 ALSI CSH                            | EOF3   |

|  |   |                                     |        |
|--|---|-------------------------------------|--------|
|  |   | EXO_195                             |        |
| International Index                            | Exotic Option   | 17DEC15 GDOW CSH<br>EXO_195         | EOF5   |
| International Equity                           | Exotic Option   | 17DEC15 GOOGLI CSH<br>EXO_195       | EOE11  |
| Basket (created as a result of a Rights Offer) | Single Stock Future                                   | 15DEC17 BSK002 PHY                  | SSF2   |
| Basket (created as a result of a Rights Offer) | Single Stock Dividend Neutral Future                  | 15DEC17 BSK002 PHY<br>DN            | SSDN5  |
| Basket (created as a result of a Rights Offer) | Single Stock AnyDay Future                            | 01DEC17 BSK002 PHY<br>ANY           | SSAF2  |
| Basket (created as a result of a Rights Offer) | Single Stock AnyDay Option                            | 01DEC17 BSK002 PHY<br>ANY 23.99C    | SSAO2  |
| Basket (created as a result of a Rights Offer) | Single Stock Option                                   | 15DEC17 AGL PHY<br>23.99C           | SSO2   |
| Basket (created as a result of a Rights Offer) | Single Stock Dividend Neutral AnyDay Future           | 01DEC17 AGL PHY ANY<br>DN           | SSDN7  |
| <del>W</del>                                   | <del>Single Stock AnyDay Future</del>                 | <del>15DEC17 AGL PHY DN</del>       |        |
| Basket (created as a result of a Rights Offer) | Single Stock Inverse Calendar Spread                  | 15DEC17/15MAR18<br>BSK002 CSH       | ICS20  |
| Basket (created as a result of a Rights Offer) | Single Stock Dividend Neutral Inverse Calendar Spread | 15DEC17/15MAR18<br>BSK002 CSH DN    | ICS21  |
| Basket (created as a result of a Rights Offer) | Single Stock Delta Option                             | 15DEC17 BSK002 PHY<br>DEL 3.97P     | SSDO2  |
| Basket (created as a result of a Rights Offer) | Single Stock Anyday Delta Option                      | 15DEC17 BSK002 PHY<br>ANY DEL 18.9P | SSADO2 |
| Basket (created as a result of a Rights Offer) | International Equity Future                           | 15DEC17 BSK003 CSH                  | IEF2   |
| Basket (created as a result of a Rights Offer) | International Equity AnyDay Future                    | 01DEC17 BSK002 CSH<br>ANY           | IEAF2  |
| Basket (created as a result of a Rights Offer) | International Equity Dividend Neutral Future          | 15DEC17 BSK003 CSH<br>DN            | IEDN5  |

|  |   |                                      |        |
|--|---|--------------------------------------|--------|
| Basket (created as a result of a Rights Offer) | International Equity Dividend Neutral AnyDay Future           | 01DEC17 BSK003 CSH ANY DN            | IEDN7  |
| Basket (created as a result of a Rights Offer) | International Equity Quanto Dividend Neutral Future           | 01DEC17 BSK003 CSH DN QUA            | IEQD3  |
| Basket (created as a result of a Rights Offer) | International Equity Quanto Future                            | 01DEC17 BSK003 CSH QUANTO            | IEQF2  |
| Basket (created as a result of a Rights Offer) | International Equity Quanto Option                            | 01DEC17 BSK003 CSH QUANTO 23.99C     | IEQ2   |
| Basket (created as a result of a Rights Offer) | International Equity Inverse Calendar Spread                  | 15DEC17/15MAR18 BSK003 CSH           | ICS18  |
| Basket (created as a result of a Rights Offer) | International Equity Dividend Neutral Inverse Calendar Spread | 15DEC17/15MAR18 BSK003 CSH DN        | ICS19  |
| Basket (created as a result of a Rights Offer) | International Equity Quanto Delta Option                      | 30JUN17 BSK003 CSH QUANTO DEL 25.57P | IQEDO2 |

## 6.2.2 Currency Derivative Instrument Types

| <u>Underlying Type</u> | <u>Derivatives Tradable Instrument type</u> | <u>Example Contract Codes</u>              | <u>Instrument Type Code</u> |
|------------------------|---|--|-----------------------------|
| Forex Pair             | Forex Future                                | 15DEC17 EURZAR                             | FF1                         |
|                        |   | 15DEC17 EURZAR<br>MAXI                     |                             |
| Forex Pair             | Forex Option                                | 15DEC17 EURZAR<br>14725.36P                | FO                          |
|                        |   | 15DEC17 EURZAR<br>MAXI 14725.36P           |                             |
| Forex Pair             | Forex AnyDay Future                         | 31MAY17 EURZAR<br>ANYDAY                   | FAF                         |
| Forex Pair             | Forex AnyDay Option                         | 31MAY17 EURZAR<br>ANYDAY 14725.36P         | FAO                         |
| Forex Pair             | Quanto Forex Future                         | 15DEC17 EURUSD<br>QUANTO                   | QFF                         |
|                        |   | 15DEC17 EURUSD<br>QUANTO MAXI              |                             |
| Forex Pair             | Quanto Forex Option                         | 15DEC17 EURUSD<br>QUANTO 149.36P           | QFO                         |
|                        |   | 15DEC17 EURUSD<br>QUANTO MAXI<br>149.36P   |                             |
| Forex Pair             | Quanto Forex AnyDay Future                  | 31MAY17 EURUSD<br>ANYDAY QUANTO            | QFAF                        |
| Forex Pair             | Quanto Forex AnyDay Option                  | 31MAY17 EURUSD<br>ANYDAY QUANTO<br>149.36P | QFAO                        |
| Forex Pair             | Inverted Currency Future                    | 18SEP17 ZARJPY                             | ICF                         |
|                        |   | 18SEP17 ZARJPY<br>MAXI                     |                             |
| Forex Pair             | Inverted Currency Option                    | 18SEP17 ZARJPY<br>0.1429C                  | ICO                         |
|                        |   | 18SEP17 ZARJPY<br>MAXI 0.1429C             |                             |
| Forex Pair             | FWDFWDFX Future                             | 28JUL17/30OCT17<br>USDZAR 3X6              | FF2                         |
| Forex Index            | Forex Index Future                          | 15DEC17 RAIN                               | FIF                         |
| Forex Pair             | Exotic Option                               | 30JUN17 USDZAR<br>CSH EXO_ZAU1             | EOF20                       |
| Forex Pair             | Forex Inverse Calendar Spread               | 15DEC17/15MAR18                            | ICS13                       |



|             |   |  |       |
|-------------|---|--|-------|
|             |   | GBPZAR   |       |
|             |   | 15DEC17/15MAR18<br>GBPZAR MAXI                 |       |
| Forex Index | Forex Index Inverse Calendar Spread       | 15DEC17/15MAR18<br>RAIN                        | ICS16 |
| Forex Pair  | Quanto Forex Inverse Calendar Spread      | 15DEC17/15MAR18<br>EURUSD QUANTO               | ICS14 |
|             |   | 15DEC17/15MAR18<br>EURUSD QUANTO<br>MAXI       |       |
| Forex Pair  | Inverted Currency Inverse Calendar Spread | 15DEC17/15MAR18<br>ZARJPY                      | ICS15 |
|             |   | 15DEC17/15MAR18<br>ZARJPY MAXI                 |       |
| Forex Pair  | Forex Delta Option                        | 15DEC17 USDZAR<br>DEL 154.35P                  | DO20  |
|             |   | 15DEC17 USDZAR<br>DEL MAXI 154.35P             |       |
| Forex Pair  | Forex Anyday Delta Option                 | 30MAY17 USDZAR<br>ANYDAY DEL<br>0.0001P        | DO21  |
| Forex Pair  | Inverted Currency Delta Option            | 18SEP17 ZARJPY DEL<br>154.68P                  | DO24  |
|             |   | 18SEP17 ZARJPY DEL<br>MAXI 154.68P             |       |
| Forex Pair  | Quanto Forex Delta Option                 | 15DEC17 EURUSD<br>QUANTO DEL<br>149.36P        | DO22  |
|             |   | 15DEC17 EURUSD<br>QUANTO DEL MAXI<br>149.36P   |       |
| Forex Pair  | Quanto Forex AnyDay Delta Option          | 31MAY17 EURUSD<br>ANYDAY QUANTO<br>DEL 149.36P | DO23  |

### 6.3 Old to New Instrument Types mapping

The below table describes how the existing instrument types will be converted into the ITaC system, and how those types will be loaded in the future.

| Nuclears Instrument type   | MDS Instrument Type   |
|--|---|
| <b>Equity Derivative Instruments</b>   |   |
| <b>Single Stock</b>  |   |
| Future on Instrument Type Code=SSF   | Single Stock Future   |
| Option on Instrument Type Code=SSF   | Single Stock Option   |
| Calendar Spread on Instrument Type Code=SSF  | Single Stock Inverse Calendar Spread                              |
| Delta Option on Instrument Type Code=SSF   | Single Stock Delta Option   |
| Future on Instrument Type Code=Divneut**<br>Dividend Future on Instrument Type Code=DIVF** | Replaced by Single Stock Dividend Neutral Future                  |
| Calendar Spread on Instrument Type Code=Divneut  | Replaced by Single Stock Dividend Neutral Inverse Calendar Spread |
| Calendar Spread on Instrument Type Code=DIVF   |   |
| Future on Instrument Type Code=CANDO   | Single Stock Anyday Future  |
| Option on Instrument Type Code=CANDO   | Single Stock Anyday Option  |
| Delta Option on Instrument Type Code=CANDO   | Single Stock Anyday Delta Option                                  |
| Not existing in Nuclears   | Single Stock Dividend Neutral Anyday Future                       |
| <b>Index</b>   |   |
| Future on Instrument Type Code=INDEX   | Index Future  |
| Option on Instrument Type Code=INDEX   | Index Option  |
| Calendar Spread on Instrument Type Code=INDEX  | Index Inverse Calendar Spread                                     |
| Delta Option on Instrument Type Code=INDEX   | Index Delta Option  |
| Future on Instrument Type Code=CANDO   | Index Anyday Future   |
| Option on Instrument Type Code=CANDO   | Index Anyday Option   |
| Delta Option on Instrument Type Code=CANDO   | Index Anyday Delta Option   |
| <b>International Equity</b>  |   |

| <b>Nuclears Instrument type</b>                                 | <b>MDS Instrument Type</b>  |
|---|---|
| Future on Instrument Type Code=IDXFUT                           | International Equity Future   |
| Calendar Spread on Instrument Type Code=IDXFUT                  | International Equity Inverse Calendar Spread                              |
| <b>Not Existing</b>   | International Equity Anyday Future  |
| Dividend Future on Instrument Type Code=IDXDIV*                 | Replaced by International Equity Dividend Neutral Future                  |
| Dividend Future Calendar Spread on Instrument Type Code=IDXDIV* | Replaced by International Equity Dividend Neutral Inverse Calendar Spread |
| <b>Not Existing</b>   | International Equity Dividend Neutral Anyday Future                       |
| Future on Instrument Type Code=CANDO                            | International Equity Quanto Future  |
| Option on Instrument Type Code=CANDO                            | International Equity Quanto Option  |
| Delta Option on Instrument Type Code=CANDO                      | International Equity Quanto Delta Option                                  |
| <b>Not Existing</b>   | International Equity Quanto Dividend Neutral Future                       |
| <b>International Index</b>                                      |   |
| Future on Instrument Type Code=CANDO                            | International Index Future  |
| Option on Instrument Type Code=CANDO                            | International Index Option  |
| Calendar Spread on Instrument Type Code=CANDO                   | International Index Inverse Calendar Spread                               |
| Delta Option on Instrument Type Code=CANDO                      | International Index Delta Option  |
| <b>Not Existing</b>   | International Index Anyday Future   |
| <b>Not Existing</b>   | International Index Anyday Option   |
| <b>Not Existing</b>   | International Index Anyday Delta Option                                   |
| <b>Not Existing</b>   | International Index Quanto Future   |
| <b>Not Existing</b>   | International Index Quanto Option   |
| <b>Not Existing</b>   | International Index Quanto Delta Option                                   |
| <b>CFD</b>  |   |
| Future on Instrument Type Code=ECFD                             | CFD   |
| <b>Structure Products</b>                                       |   |
| Future on Instrument Type Code=CANDO                            | Basket Future   |
| Option on Instrument Type Code=CANDO                            | Option on Basket Future   |
| Future on Instrument Type Code=CANDO                            | Exotic Future   |
| Option on Instrument Type Code=CANDO                            | Exotic Option   |

| Nuclears Instrument type                      | MDS Instrument Type                       |
|---|---|
| <b>Currency Derivative Instruments</b>        |   |
| <b>Forex</b>                                  |   |
| Future on Instrument Type Code=FOREX          | Forex Future                              |
| Option on Instrument Type Code=FOREX          | Forex Option                              |
| Calendar Spread on Instrument Type Code=FOREX | Forex Inverse Calendar Spread             |
| Delta Option on Instrument Type Code=FOREX    | Forex Delta Option                        |
| Future on Instrument Type Code=ANYDAY         | Forex Anyday Future                       |
| Option on Instrument Type Code=ANYDAY         | Forex Anyday Option                       |
| Delta Option on Instrument Type Code=ANYDAY   | Forex Anyday Delta Option                 |
| <b>Forex Index</b>                            |   |
| Not existing                                  | Forex Index Future                        |
| Not existing                                  | Forex Index Inverse Calendar Spread       |
| <b>Quanto</b>                                 |   |
| Future on Instrument Type Code=FOREX          | Quanto Forex Future                       |
| Option on Instrument Type Code=FOREX          | Quanto Forex Option                       |
| Calendar Spread on Instrument Type Code=FOREX | Quanto Forex Inverse Calendar Spread      |
| Not existing                                  | Quanto Forex Anyday Future                |
| Not existing                                  | Quanto Forex Anyday Option                |
| <b>Inverted Currency</b>                      |   |
| Future on Instrument Type Code=FOREX          | Inverted Currency Future                  |
| Option on Instrument Type Code=FOREX          | Inverted Currency Option                  |
| Calendar Spread on Instrument Type Code=FOREX | Inverted Currency Inverse Calendar Spread |
| Delta Option on Instrument Type Code=FOREX    | Inverted Currency Delta Option            |
| <b>Structure Products</b>                     |   |
| Future on Instrument Type Code=CANDO          | Exotic Option                             |

\* The IDXDIV instrument type in Nutron is NOT a direct mapping to the International Equity Dividend Neutral in MDS. However, as part of ITAC, a decision was taken to discontinue Dividend Futures on all the existing instrument types. The Dividend Neutral instrument type was introduced in ITAC to move all positions from the IDXFUT and IDXDIV to the Dividend Neutrals. Hence the above mapping has been shown to indicate this movement of positions.

\*\*The same rules apply for SSF and DIVF instrument types. The DIVF instrument type in Nutron is not a direct mapping to the Single Stock Dividend Neutral. However, as part of ITAC, a decision was taken to discontinue Dividend Futures on all

the existing instrument types. The Dividend Neutral instrument type was introduced in ITAC to move all positions from the SSF and DIVF to the Dividend Neutrals. Hence the above mapping has been shown to indicate this movement of positions

Please note: The exact rules regarding Position take-on have been defined in a separate document and is out of scope for the purpose of this document.

#### 6.4 Index Futures with Different Strike Intervals

There was a need to align the Strike interval of the Standard index derivatives to the Anyday index derivatives, so that the only difference is the expiry date. After consultation with the market a decision was made to make the following changes:

1. Change the Strike Interval of ALSX from 0.01 to 50
2. Change the Strike Interval of DTOX from 0.01 to 10
3. Change the Strike Interval of DCAX from 0.01 to 10

#### 6.5 CFDs with Different Base Rates

In Nutron, the Base rate – Safex Rand Overnight Deposit Rate (SAFEY/RODI) OR SARB Call Rate (SABOR) was selected for an e-CFD at the time of submitting a trade. There were no two different CFD instruments loaded with the different Base rates.

However, the new Clearing System requires the Base Rate as part of the reference data of an instrument, and not part of the transactional data. Therefore, with ITAC, there will be two CFDs loaded with different Base Rates for RODI and SABOR. This means that for each CFD on a JSE Equity, there will be a CFD with RODI Base rate and a CFD with SABOR Base rate. The expiries linked to these 2 CFDs will be different with different Contract Codes and Universal IDs.

The Nutron eCFD expiries will be mapped to the CFD with RODI base rate expiries in the new reference data system.

See example below:

| <u>Nutron Short Name</u> | <u>Expiry Date</u> | <u>ITAC Contract Code</u>            | <u>ITAC Universal ID</u> | <u>CFD Type</u>                     |
|--------------------------|--------------------|--------------------------------------|--------------------------|-------------------------------------|
| <u>AGLC</u>              | <u>20/03/2019</u>  | <u>20MAR19 AGL CSH<br/>CFD RODI</u>  | <u>1015543</u>           | <u>CFD with RODI<br/>Base rate</u>  |
| <u>N/A</u>               | <u>20/03-2019</u>  | <u>20MAR19 AGL CSH<br/>CFD SABOR</u> | <u>1015569</u>           | <u>CFD with SABOR<br/>Base rate</u> |