

**Derivatives Service Bureau (UPI)**  
**CHANGE REQUEST FORM**

| Version | State | Author | Date        | Description  |
|---------|-------|--------|-------------|--|
| 1       | Draft | J. Lim | 24 Mar 2021 | Initial Document   |
| 2       | Draft | J. Lim | 21 Apr 2021 | Updated requirements, assumptions, attribute data dictionary and reference                       |
| 3       | Draft | J. Lim | 23 Jun 2021 | Record template and validation updated   |
| 4       | Draft | J. Lim | 30 Jun 2021 | Updated codeset name for Equity Index  |
| 5       | Draft | J. Lim | 21 Jul 2021 | Updated template layout, attribute section, attribute data dictionary, GUI details and reference |
| 6       | Draft | J. Lim | 07 Oct 2021 | Updated error message for ISIN validation  |

| Title                     | EQUITY SWAP Price Return Basic Performance Single Index Template Definition  |                |                 |
|---------------------------|--|----------------|-----------------|
| <b>Background</b>         | <p>The following CRF presents a specification for the generation and retrieval of a Unique Product Identifier for the following product:</p> <ul style="list-style-type: none"> <li><b>Equity : Swap : Price_Return_Basic_Performance_Single_Index</b></li> </ul>  | <b>DSB-ID</b>  | <b>UPI-0102</b> |
|                           |  | <b>Type</b>    | New Template    |
|                           |  | <b>Owner</b>   | J.Lim           |
|                           |  | <b>Version</b> | 6               |
|                           |  | <b>State</b>   | Draft           |
| <b>Terms of Reference</b> |  |                |                 |
| <b>Scope</b>              | <ul style="list-style-type: none"> <li>This CRF specifies the product definition required for the generation / retrieval of a UPI only.</li> <li>This CRF covers both the input (Request) and output (Record) templates.</li> <li>Support for local jurisdiction / alternate underlier identifier input is currently out of scope.</li> <li>Support for CFI 2019 values is currently out of scope.</li> </ul>  |                |                 |
| <b>Requirements</b>       | <ul style="list-style-type: none"> <li>The product definition will conform to ISO 4914 (UPI).</li> <li>Where possible, the product definition is to be based on the attributes, values and behaviour of the equivalent OTC ISIN.</li> <li>The product definition will return a product short name (FISN).</li> <li>All UPI records stored on the DSB RDL will include the ISO 10962 (CFI) code associated with the UPI along with an equivalent text value for all attributes that are included in the definition of the CFI.</li> </ul>   |                |                 |
| <b>Dependencies</b>       | <ul style="list-style-type: none"> <li>This specification is dependent on final sign-off of the ISO 4914 (UPI) specification.</li> <li>This specification is dependent on PC approval for the use of the OTC ISIN definitions as a basis for the UPI.</li> <li>This specification is dependent on PC approval for the inclusion of ISO 4914 (UPI) conditional attributes.</li> <li>This specification is dependent on TAC Approval for the DSB approach to ISO 10962 (CFI:2019) migration.</li> <li>This specification is dependent on the provision of a human-readable alias for the primary underlier for inclusion in the Short Name (FISN) and a human-readable alias for the Contract Specification.</li> <li>The format of the Short Name is dependent upon the outcome of the ISO 18774 (FISN) systematic review.</li> </ul>   |                |                 |
| <b>Assumptions</b>        | <ul style="list-style-type: none"> <li>This specification assumes that, unless stated, all values and behaviours are based on those of the equivalent OTC ISIN product definition.</li> <li>This specification assumes that no input values are to be defaulted by the system.</li> <li>This specification is based on the current ISO 4914 (UPI) specification (CD) – including attributes that are not currently supported by the equivalent OTC ISIN.</li> <li>This specification is based on the DSB's current equivalent OTC ISIN product definition.</li> <li>This specification is based on the attributes and values defined in ISO 10962 (CFI:2015).</li> <li>In order to provide an example Short Name, this specification defines a format for this attribute that may not conform to the eventually agreed FISN format for the UPI. This specification assumes that the Short Name is defined using the same attributes (where available) as the OTC ISIN Short Name.</li> </ul> |                |                 |

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|  | <ul style="list-style-type: none"> <li>Where possible, this specification derives GUI details from the ISO 4914 (UPI) specification for attributes that are not included in the current OTC ISIN product definition.</li> <li>The display information in the GUI for the existing attributes (and values) are taken from the OTC ISIN. If such information contains an "ISIN" in the description, replace the value into "UPI".</li> <li>The specification for UPI does not include expiry date as part of the attributes, hence "expired" status does not apply.</li> </ul> |
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**Request Template Layout**

| Section           | Attribute                     | Format | Cat  | Example Value                               | Validation / Derivation      | Enum Source              | ORIGIN |
|-------------------|-------------------------------|--------|------|---|------------------------------|--------------------------|--------|
| Header Section    | Asset Class                   | Set    | M    | Equity                                      |                              | CFI:2015 Char#2          | ISIN   |
|                   | Instrument Type               | Set    | M    | Swap  |                              | CFI 2015 Char#1          | ISIN   |
|                   | Product                       | Set    | M    | Price_Return_Basic_Performance_Single_Index |                              |                          | ISIN   |
|                   | Level                         | Set    | M    | UPI   |                              |                          | NEW    |
| Attribute Section | <b>Underlier Type (oneOf)</b> | String | M    | Single Stock                                | [Single Stock]               |                          | NEW    |
|                   | Underlier ID Source           | String | M    | ISIN  | [ISIN]                       | internal                 | NEW    |
|                   | Underlier ID                  | Enum   | M    | KRD020020016                                | See CRF (Validation)         |                          | NEW    |
|                   | <b>Underlier Type (oneOf)</b> | String | M    | Equity Index                                | [Equity Index]               |                          | NEW    |
|                   | Underlier ID Source           | String | M    | ESMA  | [ESMA]                       | internal                 | NEW    |
|                   | Underlier ID                  | Enum   | M    | MSCI EM USD                                 | EsmaEquityIndex.json         | ESMA TTC                 | NEW    |
|                   | <b>Underlier Type (oneOf)</b> | String | M    | Proprietary Index                           | [Proprietary Index]          |                          | NEW    |
|                   | Underlier ID Source           | String | M    | PROP  | [PROP]                       | internal                 | NEW    |
|                   | Underlier ID                  | Enum   | M    | 34810-JP1SFT                                | See CRF (Validation)         |                          | NEW    |
|                   | Return or Payout Trigger      | Enum   | M    | Price                                       | [Price, Total Return, Other] | CFI:2015 Char#4 (SE****) | ISIN   |
| Delivery Type     | Enum                          | M      | CASH | [CASH, PHYS,OPTL]                           | ISO 20022                    | ISIN                     |        |

**Record Template Layout**

| Section            | Attribute                        | Format  | Cat | Example Value                               | Validation / Derivation                           | Enum Source                       | ORIGIN |
|--------------------|----------------------------------|---------|-----|---|---|-----------------------------------|--------|
| Header Section     | Asset Class                      | Set     | M   | Equity                                      |   | CFI:2015 Char#2                   | ISIN   |
|                    | Instrument Type                  | Set     | M   | Swap  |   | CFI 2015 Char#1                   | ISIN   |
|                    | Product                          | Set     | M   | Price_Return_Basic_Performance_Single_Index |   |                                   | ISIN   |
|                    | Level                            | Set     | M   | UPI   |   |                                   | NEW    |
| Attribute Section  | Template Version                 | Integer | D   | 1   |   |                                   | ISIN   |
|                    | Underlying Instrument ISIN       | String  | C   | KRD020020016                                | See CRF (Normalization and Validations)           |                                   | ISIN   |
|                    | Underlying Instrument Index      | String  | C   | MSCI EM USD                                 | See CRF (Normalization and Validations)           | ESMA TTC                          | ISIN   |
|                    | Underlying Instrument Index Prop | String  | C   | 34810-JP1SFT                                | See CRF (Validations)                             | DSB Proprietary Index Enumeration | ISIN   |
|                    | Return or Payout Trigger         | Enum    | M   | Price                                       | [Price, Total Return, Other]                      | CFI:2015 Char#4 (SE****)          | ISIN   |
|                    | Delivery Type                    | Enum    | M   | CASH  | [CASH, PHYS,OPTL]                                 | ISO 20022                         | ISIN   |
| Identifier Section | UPI                              | String  | D   | QZGL6LJK2782                                | See UPI Document (UPI Code structure and Annex C) | ISO 4914                          | NEW    |
|                    | Status                           | String  | D   | New   |   |                                   | ISIN   |
|                    | Status Reason                    | String  | D   | <null>                                      | Not applicable to a New record                    |                                   | ISIN   |
|                    | Last Update Date Time            | DdTm    | D   | 2021-02-23T00:00:13                         | YYYY-MM-DDThh:mm:ss                               |                                   | ISIN   |
| Derived Section    | Classification Type              | String  | D   | SEIPXC                                      | See CRF (Derivations)                             | ISO 10962:2015                    | ISIN   |
|                    | Short Name                       | String  | D   | NA/Swaps Idx Pr                             | See CRF (Derivations)                             | ISO 18774: 2015                   | NEW    |
|                    | Underlying Asset Type            | String  | D   | Index                                       | Fixed value                                       | CFI:2015 Char#3 (SEI****)         | ISIN   |
|                    | CFI Delivery Type                | String  | D   | Cash  | See CRF (Derivations)                             | CFI:2015 Char#6 (SE****)          | NEW    |

| Product Definition |   |
|--------------------|---|
| <b>Attributes</b>  | <p>See Template Layout (above).</p> <p><b>a) Underlier Type</b></p> <p>The Request template described in this document supports products that can be defined on the basis of more than one type of underlier. For this product, the user is asked to select one of the following:</p> <ul style="list-style-type: none"> <li>Single Stock</li> <li>Equity Index</li> <li>Proprietary Index</li> </ul> <p>Once the Underlier Type is chosen, the user will be asked to select one of the Underlier ID Sources associated with that Underlier Type and enter the Underlier ID that matches the ID Source.</p> <p><i>* Please see Underlier Input Method Document (see Reference Section below) for further details.</i></p> |
| <b>Validation</b>  | <p><b>1. Underlier ID</b></p> <p>The following validation will be applied to Underlier ID based on the value selected on Underlier ID Source [ISIN, ESMA, PROP].</p> <p>a. ISIN</p> <ul style="list-style-type: none"> <li>The input text by user must be in 12 characters (2 alpha, 9 alphanumeric, 1 numeric).</li> <li>The input text must not have a prefix of "QZ" or "EZ".</li> </ul>   |

|  | <ul style="list-style-type: none"> <li>A syntactic validation is being performed to confirm an ISIN when hitting create.</li> <li>If the input ISIN is less or more than 12 characters and/or is not aligned with the above pattern before hitting create an error message will apply "Value must match the pattern ^(?!(EZ QZ))[A-Z]{2}[A-Z0-9]{9}[0-9]\$.".</li> <li>If the input ISIN is not aligned with the above pattern and conformed with the syntactic validation after hitting create an error message will apply "Error: /Attributes/Underlying: instance failed to match exactly one schema (matched 0 out of 3)".</li> <li>If the input ISIN is aligned with the pattern criteria but ISIN value does not conformed with syntactic validation, an error message will apply "Error: ISIN/s must be valid".</li> </ul> <p>b. ESMA</p> <ul style="list-style-type: none"> <li>Enumeration list is based on JSON codeset (EsmaEquityIndex.json).</li> </ul> <p>c. PROP</p> <ul style="list-style-type: none"> <li>The input text by user must exist in the DSB Proprietary Index Enumeration.</li> <li>The Proprietary index is made on a per asset class and only relevant to the particular asset class based on DSB data. The only exception is asset class "Other" which is applicable to all asset classes.</li> <li>If the input Prop Index does not exist in the DSB Proprietary Index Enumeration, value will be rejected with an error message "Error: Given Index/ices must be an existing and valid Equity or Multi-Asset Index".</li> </ul> |  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
|--|--|--|---|--|--|---|--------------------------|--|---|---|--------------------------|---|-----------------------------------|----------------------------|---------------|--|-----------------------------|----------|--|----------------------------------|------------------------------------|-------------------|
| <p><b>Attribute Data Dictionary</b></p>    | <p>This section provides the exact reference or source of the attribute.</p> <table border="1"> <thead> <tr> <th>Full Name</th> <th>Source</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>Delivery Type</td> <td>ISO 20022<br/>FinancialInstrumentReportingReferenceDataReport<br/>V01</td> <td>Enums [CASH; PHYS; OPTL]</td> </tr> <tr> <td>CFI Delivery Type</td> <td>ISO 10962 Classification of financial instruments<br/>(CFI code)</td> <td>Enums [Cash; Physical; Elect at Settlement]</td> </tr> <tr> <td>Return or Payout Trigger</td> <td>ISO 10962 Classification of financial instruments<br/>(CFI code)</td> <td>Enums [Price; Total Return Other]</td> </tr> <tr> <td>Underlying Instrument ISIN</td> <td>Not Available</td> <td>Max of 12 text (pattern)<br/>[A-Z] – firsts 2 characters<br/>[A-Z], [0-9] – Next 9 characters<br/>[0-9] – Last value is based on ISIN calculation</td> </tr> <tr> <td>Underlying Instrument Index</td> <td>ESMA TTC</td> <td>Max of 350Text (based on string)<br/>minLength: 1<br/>maxLength: 350</td> </tr> <tr> <td>Underlying Instrument Index Prop</td> <td>DSB Proprietary Index Enumerations</td> <td>(Based on string)</td> </tr> </tbody> </table>  | Full Name  | Source  | Type                                     | Delivery Type  | ISO 20022<br>FinancialInstrumentReportingReferenceDataReport<br>V01 | Enums [CASH; PHYS; OPTL] | CFI Delivery Type                          | ISO 10962 Classification of financial instruments<br>(CFI code) | Enums [Cash; Physical; Elect at Settlement] | Return or Payout Trigger | ISO 10962 Classification of financial instruments<br>(CFI code) | Enums [Price; Total Return Other] | Underlying Instrument ISIN | Not Available | Max of 12 text (pattern)<br>[A-Z] – firsts 2 characters<br>[A-Z], [0-9] – Next 9 characters<br>[0-9] – Last value is based on ISIN calculation | Underlying Instrument Index | ESMA TTC | Max of 350Text (based on string)<br>minLength: 1<br>maxLength: 350 | Underlying Instrument Index Prop | DSB Proprietary Index Enumerations | (Based on string) |
| Full Name                                  | Source   | Type   |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Delivery Type                              | ISO 20022<br>FinancialInstrumentReportingReferenceDataReport<br>V01  | Enums [CASH; PHYS; OPTL]   |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| CFI Delivery Type                          | ISO 10962 Classification of financial instruments<br>(CFI code)  | Enums [Cash; Physical; Elect at Settlement]  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Return or Payout Trigger                   | ISO 10962 Classification of financial instruments<br>(CFI code)  | Enums [Price; Total Return Other]  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Underlying Instrument ISIN                 | Not Available  | Max of 12 text (pattern)<br>[A-Z] – firsts 2 characters<br>[A-Z], [0-9] – Next 9 characters<br>[0-9] – Last value is based on ISIN calculation |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Underlying Instrument Index                | ESMA TTC   | Max of 350Text (based on string)<br>minLength: 1<br>maxLength: 350   |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Underlying Instrument Index Prop           | DSB Proprietary Index Enumerations   | (Based on string)  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| <p><b>Normalization</b></p>                | <p>1. Underlying Instrument Index</p> <ul style="list-style-type: none"> <li>For any given Equity Index submission, a validation will apply against the existence of an ISIN and return the Index ISIN as part of the record in place of the Index Name.</li> </ul> <table border="1"> <thead> <tr> <th>Request Template</th> <th>Record Template</th> </tr> </thead> <tbody> <tr> <td>Underlying Instrument Index<br/>KOSPI 200</td> <td>→ Underlying Instrument ISIN<br/>KRD020020016</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>If Index name has no associated Index ISIN, the index name input by the user will return in the record.</li> </ul> <table border="1"> <thead> <tr> <th>Request Template</th> <th>Record Template</th> </tr> </thead> <tbody> <tr> <td>Underlying Instrument Index<br/>MSCI EM USD</td> <td>→ Underlying Instrument Index<br/>MSCI EM USD</td> </tr> </tbody> </table> <p>List of Indices and associated ISINs can be found <a href="#">here</a>.</p>   | Request Template   | Record Template                                   | Underlying Instrument Index<br>KOSPI 200 | → Underlying Instrument ISIN<br>KRD020020016                           | Request Template  | Record Template          | Underlying Instrument Index<br>MSCI EM USD | → Underlying Instrument Index<br>MSCI EM USD                    |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Request Template                           | Record Template  |  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Underlying Instrument Index<br>KOSPI 200   | → Underlying Instrument ISIN<br>KRD020020016   |  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Request Template                           | Record Template  |  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Underlying Instrument Index<br>MSCI EM USD | → Underlying Instrument Index<br>MSCI EM USD   |  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| <p><b>Derivation</b></p>                   | <p>This section provides additional details to the derivation logic specified in the Template Layout sections (above).</p> <table border="1"> <thead> <tr> <th>Classification Type</th> <th>Concatenation of the following attributes/values:</th> </tr> </thead> <tbody> <tr> <td></td> <td> <ul style="list-style-type: none"> <li>Instrument Type: "S"</li> </ul> </td> </tr> </tbody> </table>   | Classification Type  | Concatenation of the following attributes/values: |  | <ul style="list-style-type: none"> <li>Instrument Type: "S"</li> </ul> |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
| Classification Type                        | Concatenation of the following attributes/values:  |  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |
|  | <ul style="list-style-type: none"> <li>Instrument Type: "S"</li> </ul>   |  |   |  |  |   |                          |  |   |   |                          |   |                                   |                            |               |  |                             |          |  |                                  |                                    |                   |

|                               | <ul style="list-style-type: none"> <li>Asset Class: "E"</li> <li>Underlying Asset Type: "I"</li> <li>Return or Payout Trigger: from Request.ReturnorPayoutTrigger ...                             <ul style="list-style-type: none"> <li>Price → P</li> <li>Total Return → T</li> <li>Other → M</li> </ul> </li> <li>Not applicable/undefined: "X"</li> <li>Delivery Type: from Request.Delivery Type...                             <ul style="list-style-type: none"> <li>CASH → C</li> <li>PHYS → P</li> <li>OPTL → E</li> </ul> </li> </ul> <p>E.g.: "SEIPXC"</p>   |   |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
|-------------------------------|---|---|-------------------------|------------------------------------|----------------|----------------|---|--------------|--------------|---|---------------------|---------------------|---|-----|----------------|---------------------------------------|-------------------|-------------------|--|
| <b>Short Name</b>             | <p>Concatenation of the following attributes/values:</p> <ul style="list-style-type: none"> <li>Issuer Name: "NA/"</li> <li>Instrument Type: "Swaps" (fixed value)</li> <li>Underlying Asset Type: "Idx" (fixed value)</li> <li>Return or Payout Trigger: "Pr" (if input value is Price)<br/>"Tot Rtn" (if input value is Total return)<br/>"Oth" (if input value is Other)</li> </ul> <p>E.g.: "NA/Swaps Idx Pr".</p> <p>Note: The Short Name is based on the OTC ISIN that excludes the following fields:</p> <ul style="list-style-type: none"> <li>Notional Currency</li> <li>Expiry Date</li> </ul>  |   |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| <b>CFI Delivery Type</b>      | <p>Derived from the input Delivery Type...</p> <ul style="list-style-type: none"> <li>CASH → "Cash"</li> <li>PHYS → "Physical"</li> <li>OPTL → "Elect at Settlement"</li> </ul>   |   |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| <b>GUI Details</b>            | <p>The following section provides display information for any attributes (and values) that are not included in the related OTC ISIN definition.</p> <table border="1"> <thead> <tr> <th>Attribute</th> <th>Display Name</th> <th>Tool Tip (and • value elaboration)</th> </tr> </thead> <tbody> <tr> <td>Underlier Type</td> <td>Underlier Type</td> <td>Indicates the type of underlying asset or entity on which the product is based.</td> </tr> <tr> <td>Underlier ID</td> <td>Underlier ID</td> <td>An identifier that can be used to determine the asset(s), index (indices) or benchmark underlying a contract or, in the case of a foreign exchange derivative, identification of the currency pair or index</td> </tr> <tr> <td>Underlier ID Source</td> <td>Underlier ID Source</td> <td>The origin, or publisher, of the associated underlier ID.</td> </tr> <tr> <td>UPI</td> <td>Identification</td> <td>Unique Product Identifier (ISO 4914).</td> </tr> <tr> <td>CFI Delivery Type</td> <td>CFI Delivery Type</td> <td> <ul style="list-style-type: none"> <li>The Delivery Type as defined by CFI code: ISO 10962As defined by CFI Code: ISO 10962</li> </ul> </td> </tr> </tbody> </table> | Attribute   | Display Name            | Tool Tip (and • value elaboration) | Underlier Type | Underlier Type | Indicates the type of underlying asset or entity on which the product is based. | Underlier ID | Underlier ID | An identifier that can be used to determine the asset(s), index (indices) or benchmark underlying a contract or, in the case of a foreign exchange derivative, identification of the currency pair or index | Underlier ID Source | Underlier ID Source | The origin, or publisher, of the associated underlier ID. | UPI | Identification | Unique Product Identifier (ISO 4914). | CFI Delivery Type | CFI Delivery Type | <ul style="list-style-type: none"> <li>The Delivery Type as defined by CFI code: ISO 10962As defined by CFI Code: ISO 10962</li> </ul> |
| Attribute                     | Display Name  | Tool Tip (and • value elaboration)  |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| Underlier Type                | Underlier Type  | Indicates the type of underlying asset or entity on which the product is based.   |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| Underlier ID                  | Underlier ID  | An identifier that can be used to determine the asset(s), index (indices) or benchmark underlying a contract or, in the case of a foreign exchange derivative, identification of the currency pair or index |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| Underlier ID Source           | Underlier ID Source   | The origin, or publisher, of the associated underlier ID.   |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| UPI                           | Identification  | Unique Product Identifier (ISO 4914).   |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| CFI Delivery Type             | CFI Delivery Type   | <ul style="list-style-type: none"> <li>The Delivery Type as defined by CFI code: ISO 10962As defined by CFI Code: ISO 10962</li> </ul>  |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| <b>Additional Information</b> |   |   |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| <b>Reference</b>              | <p>References to external documents can be found on the DSB website at this address [<a href="https://www.anna-dsb.com/upi-external-reference-documents/">https://www.anna-dsb.com/upi-external-reference-documents/</a>].</p>  |   |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| <b>Comments</b>               | <ul style="list-style-type: none"> <li>Text values in the Short Name are taken from "ISO Abbrev w acronyms-Final_v0.5.5.FINAL."</li> <li>Currently the system does not hold reference data to support the validation of the LEI or ISIN. This means that it is not possible to validate the existence or classification of the Underlier ID. In addition, this means that human-readable alias is not currently supported for inclusion in the Short Name attribute.</li> <li>Existing OTC ISIN product definition methodology of the Short Name abbreviation (Issuer of TV + "/" + Instrument Type) for Equity Asset Class has "NA/Swaps" whereas Rates has "NA/Swap".</li> </ul>  |   |                         |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
| <b>ISO 4914 Equivalence</b>   | <b>ISO 4914</b>   | <b>Request Attribute</b>  | <b>Record Attribute</b> |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |
|                               | Asset Class   | M   | Asset Class             |                                    |                |                |   |              |              |   |                     |                     |   |     |                |                                       |                   |                   |  |

|                     |  |                                  |                          |                             |
|---------------------|--|----------------------------------|--------------------------|-----------------------------|
|                     | Instrument Type                          | M                                | Instrument Type          | Instrument Type             |
|                     | Delivery Type                            | M                                | Delivery Type            | Delivery Type               |
|                     |  |                                  |                          | CFI Delivery Type           |
|                     | Return, pricing method or payout trigger | M                                | Return or Payout Trigger | Return or Payout Trigger    |
|                     | Underlier ID                             | C                                | Underlier ID             | Underlying Instrument ISIN  |
|                     |  | C                                |                          | Underlying Instrument Index |
| C                   |  | Underlying Instrument Index Prop |                          |                             |
| Underlier ID source | C  | Underlier ID source              | Not Required             |                             |
| Underlier Type      | M  | Not Required                     | Underlying Asset Type    |                             |