

Derivatives Service Bureau DSB PROD Product Definitions Annex 5 – Commodities October 2017

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Preface

Change History

Date	Change	Version	Author	Revision Details
13/04/2017	Creation	0.1	Tony Birrell	Initial Version
24/04/2017	Change	0.2	Tony Birrell	Amend Use_Case name
28/04/2017	Change	0.3	Tony Birrell	Added Swaption definition
12/06/2017	Change	0.4	Tony Birrell	Added further product definitions for UAT and amended existing definitions to include Reference rate
23/06/2017	Change	0.4	Tony Birrell	Remove "Provisional" from title page and updated Short Names & Long names
31/07/2017	Change	0.5	Tony Birrell	Amend CFI references to refer to taxonomy
				Add the reference column to each Product Definition
				Capture changes implemented in the Aug change window
14/09/2017	Change	0.6	Tony Birrell	Added Taskforce Recommendations
25/09/2017	Change	0.7	Tony Birrell	Temporary withdrawal of Multi-Exotic templates and transitioned document to PROD version
05/10/2017	Change	0.8	Tony Birrell	Temporary withdrawal of Basis template

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1 Introduction

The Product Definitions have been classified into four distinct sections:

- Product Definition Selection: The set of fields to define the full population of product specific attributes
- Product Definition Input: The set of attributes the user must input when requesting an ISIN
- Product Definition Defaulted Input: The set of attributes that contain defaulted values which are valid for ISIN creation however the user can engage and select a different value if required
- Product Definition Derived: The set of attributes that can be inferred by the combination of Product Definition Selection & Product Definition Input and will be returned to the user as part of the full ISIN record

The combination of the above 4 sections comprise the full record of the ISIN Engine that will be returned to the requester.

The sections are differentiated by colour:

Product Definition Selection	
Product Definition Input	
Product Definition Defaulted Input	
Product Definition Derived	

The Product Definition Derived & Input sections contain example values for illustrative purposes from SG2 Products. For a full list of possible enumerations please refer to the Enumerations table in the UAT Provisional Product Definitions document.

For the marked user input CFI related fields, please refer to the CFI enumerations table in section 2 for all possible enumerations.

2 CFI Enumerations

Source: ISO 10962 (CFI Code) - Third edition 2015-07-15

2.1 Commodities Swaps

C	har Category	Char Group	Char Att#1	Char Att#2	CharAtt#3	Char Att#4
C	ategory	Group	Underlying asset	Return or payout trigger	Not Used	Delivery
	S Swaps	T Commodities	J Energy K Metals A Agriculture N Environmental G Freight P Polypropylene Products T Paper S Fertilizer I Index Q Multi Commodity M Other	C Contract for Difference (CFD) T Total Return	X NA	C Cash P Physical E Elect at Settlement

2.2 Commodities Options

Char Category	Char Group	Char Att#1	Char Att#2	CharAtt#3	Char Att#4
Category	Group	Underlying asset	Option Style and Type	Valuation Method or Trigger	Delivery
H Nonlisted and Complex Listed Options	T Commodities	J Energy K Metals A Agriculture N Environmental G Freight P Polypropylene Products T Paper S Fertilizer I Index Q Multi Commodity O Options R Forwards F Futures W Swap M Other	A European-Call B American-Call C Bermudan-Call D European-Put E American-Put F Bermudan-Put G European-Chooser H American-Chooser I Bermudan-Chooser	V Vanilla A Asian D Digital (Binary) B Barrier G Digital Barrier L Lookback P Other Path Dependent M Other	C Cash P Physical E Elect at Exercise

2.3 Commodities Forwards

Char	Category	Char Group	Char Att#1	Char Att#2	CharAtt#3	Char Att#4
Cate	gory	Group	Underlying asset	Unused	Return or payout trigger	Delivery
J	Forwards	T Commodities	J Energy K Metals A Agriculture N Environmental G Freight P Polypropylene Products T Paper S Fertilizer I Index B Basket M Other	X NA	C Contract for Difference (CFD) F Forward price of underlying instrument	C Cash P Physical

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3 Commodities Taskforce Recommendations

The following list of recommendations were agreed by the Commodities taskforce and should be considered as direction that the industry should follow to ensure consistent interpretation of the Product Definitions and associated attributes.

Attribute	Recommendation
Base Product	Where exact mapping does not exist use Base Product 'Other' and the specific Reference Rate to ensure a unique ISIN
Final Price Type	Select the corresponding Final Price Type if it matches to the Reference Rate selected
	If there are no corresponding values then 'Other' should be selected
	For basis instruments, following alphabetical normalisation, users should select the Final Price type that corresponds to
	the first leg Reference rate
Normalisation	Base Product and Other Base product should be normalised alphabetically
Notional Currency	Use settlement currency of the trade
Reference Rate	2015 Draft ISDA 2.0 Taxonomy to be used
	Select 'Other' where a specific value does not exist
Return or Payout Trigger	'Contract for Difference (CFD)' should be the default selection for Commodity Swaps
	'Forward Price of an Underlying Instrument' should be the default selection for Commodity Forwards
Transaction Type	No validation should be applied here, all RTS 23 values available
Underlying Instrument Index	When 'Custom Index' is selected in the underlying index field, the Reference Rate field should be made mandatory

Note to Users: RTS 23 has defined the hierarchy of Base Product + Sub-Product + Additional Sub-Product that yield acceptable product combinations for creating a valid ISIN. Users must ensure that this hierarchy is followed.

4 Product Definitions

4.1 Instrument Matrix

The below is based on the products identified as part of the ISDA 2.0 taxonomy

The DSB has provided examples below of Swap, Forward, Option and Swaption products which are relevant for all Commodity Products listed within the ISO enumerations

#	Asset Class	Commodity	Sub-Commodity	Instrument type	DSB Product Definition Name
1	Commodity	Energy	NaturalGas	Swap	Swap
3	Commodity	Energy	NaturalGas	Option	Option
4	Commodity	Energy	NaturalGas	Option	Swaption
5	Commodity	Energy	NaturalGas	Forward	Forward

4.2 Swap Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	ESMA Mapping	CFI Char
	Asset Class	T - Commodities	CFI/2nd letter	Group
Product	Instrument Type	S - Swap	CFI/1st letter	Category
Definition Selection	Product	Swap		
Selection	Level	InstRefDataReporting		
	Notional Currency	GBP	RTS23/Field13	
	Expiry date	2017-12-31	RTS23/Field24	
Due dough	Return or Payout Trigger	C - Contract for Difference	CFI/4th Swaps/5th Fwds	Att#2
Dun dunk	Delivery type	C - CASH	RTS23/Field34; CFI/6th letter	Att#4
Product Definition	Base Product	NRGY	RTS23/Field35	
	Sub Product	NGAS	RTS23/Field36	
Input	Additional Sub Product	GASP	RTS23/Field37	
	Transaction Type	SWAP	RTS23/Field38	
	Final Price type	OTHR	RTS23/Field39	
	Reference Rate	NATURAL GAS-CHICAGO CITYGATES-DAY AHEAD-ICE		
Defaulted Input	Price Multiplier	1	RTS23/Field25	
	ISIN Status	New		
	Status Reason			
	Last Update DateTime	2017-07-31T12:00:00		
	Version	1		
Product	Parent	<null></null>		
Definition	Identification	ISIN	RTS23/Field1	
Definition	Full Name	Commodities Swap NRGY NGAS GASP GBP 20171231	RTS23/Field2	
Derived	Classification Type	STJCXC	RTS23/Field3	
	Commodity Derivative Indicator	TRUE	RTS23/Field4	
	Issuer or operator of the trading venue identifier	NA	RTS23/Field5	
	Short Name	NA/Swap NRGY GASP GBP 20171231 ¹	RTS23/Field7	
	Underlying Asset type	J - Energy	CFI/3rd letter	Att#1

¹ Preliminary value – format & content of FISN currently under review (applies to all definitions) © DSB Product Committee 2017

4.3 Option Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	ESMA Mapping	CFI Char
	Asset Class	T - Commodities	CFI/2nd letter	Group
Product	Instrument Type	H - Option	CFI/1st letter	Category
Definition	Product	Option		
Selection	Level	InstRefDataReporting		
	Notional Currency	GBP	RTS23/Field13	
	Expiry date	2017-12-31	RTS23/Field24	
	Option type	Call	RTS23/Field30 / CFI 4th Opts	Att#2
	Option exercise style	American	RTS23/Field33 / CFI 4th Opts	Att#2
	Valuation Method or Trigger	V - Vanilla	CFI/5th Opts	Att#3
	Delivery type	C - CASH	RTS23/Field34; CFI/6th letter	Att#4
	Base Product	NRGY	RTS23/Field35	
input	Sub Product	NGAS	RTS23/Field36	
	Additional Sub Product	GASP	RTS23/Field37	
	Transaction Type	OPTN	RTS23/Field38	
	Final Price type	OTHR	RTS23/Field39	
	Reference Rate	NATURAL GAS-CHICAGO CITYGATES-DAY AHEAD-ICE		
Defaulted Input	Price Multiplier	1	RTS23/Field25	
	ISIN Status	New		
	Status Reason			
Product Definition Input S Product Definition Input S A T F R Defaulted Input IS S L V Product Definition Derived C C Is S	Last Update DateTime	2017-07-31T12:00:00		
	Version	1		
Donald	Parent	<null></null>		
	Identification	ISIN	RTS23/Field1	
	Full Name	Commodities Option NRGY NGAS GASP GBP 20171231	RTS23/Field2	
Derived	Classification Type	HTJBVC	RTS23/Field3	
	Commodity Derivative Indicator	TRUE	RTS23/Field4	
	Issuer or operator of the trading venue identifier	NA	RTS23/Field5	
	Short Name	NA/O NRGY GASP Call GBP 20171231	RTS23/Field7	
	Underlying Asset type	J - Energy	CFI/3rd letter	Att#1

4.4 Swaption Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	ESMA Mapping	CFI Char
Dunalizat	Asset Class	T - Commodities	CFI/2nd letter	Group
	Instrument Type	H - Option	CFI/1st letter	Category
	Product	Swaption		
Selection	Level	InstRefDataReporting		
	Notional Currency	GBP	RTS23/Field13	
Product Definition Selection Product Definition Input Defaulted Input Product Definition	Expiry date	2017-12-31	RTS23/Field24	
Dundunk	Underlying instrument ISIN	EZ1122334455	RTS23/Field26	
	Underlying Asset type	J - Energy	CFI/3rd letter	<u>Att#1</u>
	Option type	Call	RTS23/Field30 / CFI 4th Opts	Att#2
iliput	Option exercise style	American	RTS23/Field33 / CFI 4th Opts	<u>Att#2</u>
Defaulted Input	Valuation Method or Trigger	V - Vanilla	CFI/5th Opts	<u>Att#3</u>
	Delivery type	C - CASH	RTS23/Field34; CFI/6th letter	<u>Att#4</u>
	Price Multiplier	1	RTS23/Field25	
	ISIN Status	New		
	Status Reason			
	Last Update DateTime	2017-07-31T12:00:00		
	Version	1		
Product	Parent	<null></null>		
Definition	Identification	ISIN	RTS23/Field1	
Derived	Full Name	Commodities Swaption EZ1122334455 GBP 20171231	RTS23/Field2	
	Classification Type	HTJBVC	RTS23/Field3	
	Commodity Derivative Indicator	TRUE	RTS23/Field4	
	Issuer or operator of the trading venue identifier	NA	RTS23/Field5	
	Short Name	NA/O Swt Call GBP 20171231	RTS23/Field7	

4.5 Forward Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	ESMA Mapping	CFI Char
D 1 .	Asset Class	T - Commodities	CFI/2nd letter	Group
	Instrument Type	J - Forward	CFI/1st letter	Category
	Product	Forward		
Selection	Level	InstRefDataReporting		
	Notional Currency	GBP	RTS23/Field13	
	Expiry date	2017-12-31	RTS23/Field24	
	Return or Payout Trigger	F - Forward price of underlying instrument	CFI/4th Swaps/5th Fwds	Att#3
Donalis at	Delivery type	C - CASH	RTS23/Field34; CFI/6th letter	Att#4
	Base Product	NRGY	RTS23/Field35	
	Sub Product	NGAS	RTS23/Field36	
iliput	Additional Sub Product	GASP	RTS23/Field37	
Product Definition Input Defaulted Input Product Definition Definition Derived	Transaction Type	FUTR	RTS23/Field38	
	Final Price type	OTHR	RTS23/Field39	
	Reference Rate	NATURAL GAS-CHICAGO CITYGATES-DAY AHEAD-ICE		
	Price Multiplier	1	RTS23/Field25	
	ISIN Status	New		
	Status Reason			
	Last Update DateTime	2017-07-31T12:00:00		
	Version	1		
Donald at	Parent	<null></null>		
	Identification	ISIN	RTS23/Field1	
Product Definition Input Defaulted Input Product Definition	Full Name	Commodities Forward NRGY NGAS GASP GBP 20171231	RTS23/Field2	
Derived	Classification Type	JTJXFC	RTS23/Field3	
	Commodity Derivative Indicator	TRUE	RTS23/Field4	
	Issuer or operator of the trading venue identifier	NA	RTS23/Field5	
	Short Name	NA/Fwd NRGY GASP GBP 20171231	RTS23/Field7	
	Underlying Asset type	J - Energy	CFI/3rd letter	Att#1