



**Derivatives Service Bureau**  
DSB UAT Product Definitions  
Annex 5 – Commodities  
July 2017

## Contents

Preface .....	3
Change History .....	3
1    Introduction .....	4
2    CFI Enumerations .....	5
2.1    Commodities Swaps .....	5
2.2    Commodities Options .....	5
2.3    Commodities Forwards .....	6
3    Product Definitions .....	7
3.1    Instrument Matrix .....	7
3.2    Swap Product Definition .....	8
3.3    Basis_Swap Product Definition .....	9
3.4    Multi_Exotic_Swap Product Definition .....	10
3.5    Option Product Definition .....	11
3.6    Multi_Exotic_Option Product Definition .....	12
3.7    Swaption Product Definition .....	13
3.8    Forward Product Definition .....	14
3.9    Multi_Exotic_Forward Product Definition .....	15
4    Annex – ISO Commodity Classifications .....	16

## 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, updated Short Names & Long names added Annex of commodity classifications

## 1 Introduction

The Product Definitions have been classified into three 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 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 3 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 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

Char #1	Char #2	Char #3	Char #4	Char#5	Char #6
Category	Group	Underlying asset	Return or payout trigger	Not Used	Delivery
<b>S</b> Swaps	<b>T</b> Commodities	<b>J</b> Energy <b>K</b> Metals <b>A</b> Agriculture <b>N</b> Environmental <b>G</b> Freight <b>P</b> Polypropylene Products <b>T</b> Paper <b>S</b> Fertilizer <b>I</b> Index <b>Q</b> Multi Commodity <b>M</b> Other	<b>C</b> Contract for Difference (CFD) <b>T</b> Total Return	<b>X</b> NA	<b>C</b> Cash <b>P</b> Physical <b>E</b> Elect at Settlement

### 2.2 Commodities Options

Char #1	Char #2	Char #3	Char #4	Char#5	Char #6
Category	Group	Underlying asset	Option Style and Type	Valuation Method or Trigger	Delivery
<b>H</b> Nonlisted and Complex Listed Options	<b>T</b> Commodities	<b>J</b> Energy <b>K</b> Metals <b>A</b> Agriculture <b>N</b> Environmental <b>G</b> Freight <b>P</b> Polypropylene Products <b>T</b> Paper <b>S</b> Fertilizer <b>I</b> Index <b>Q</b> Multi Commodity <b>O</b> Options <b>R</b> Forwards <b>F</b> Futures <b>W</b> Swap <b>M</b> Other	<b>A</b> European-Call <b>B</b> American-Call <b>C</b> Bermudan-Call <b>D</b> European-Put <b>E</b> American-Put <b>F</b> Bermudan-Put <b>G</b> European-Chooser <b>H</b> American-Chooser <b>I</b> Bermudan-Chooser	<b>V</b> Vanilla <b>A</b> Asian <b>D</b> Digital (Binary) <b>B</b> Barrier <b>G</b> Digital Barrier <b>L</b> Lookback <b>P</b> Other Path Dependent <b>M</b> Other	<b>C</b> Cash <b>P</b> Physical <b>E</b> Elect at Exercise

## 2.3 Commodities Forwards

Char #1	Char #2	Char #3	Char #4	Char#5	Char #6
Category	Group	Underlying asset	Unused	Return or payout trigger	Delivery
<b>J</b> Forwards	<b>T</b> Commodities	<b>J</b> Energy <b>K</b> Metals <b>A</b> Agriculture <b>N</b> Environmental <b>G</b> Freight <b>P</b> Polypropylene Products <b>T</b> Paper <b>S</b> Fertilizer <b>I</b> Index <b>B</b> Basket <b>M</b> Other	<b>X</b> NA	<b>C</b> Contract for Difference (CFD) <b>F</b> Forward price of underlying instrument	<b>C</b> Cash <b>P</b> Physical

## 3 Product Definitions

### 3.1 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 Commodity Classifications in the Annex in Section 4 of this document**

#	Asset Class	Commodity	Sub-Commodity	Instrument type	DSB Product Definition Name
1	Commodity	Energy	Natural Gas	Swap	Swap
2	Commodity	Energy	Natural Gas	Swap	Basis_Swap
3	Commodity	Energy	Natural Gas	Swap	Multi_Exotic_Swap
4	Commodity	Energy	Natural Gas	Option	Option
5	Commodity	Energy	Natural Gas	Option	Multi_Exotic_Option
6	Commodity	Energy	Natural Gas	Swaption	Swaption
7	Commodity	Energy	Natural Gas	Forward	Forward
8	Commodity	Energy	Natural Gas	Forward	Multi_Exotic_Forward

## 3.2 Swap Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	CFI Char
Product Definition Selection	Asset Class	T - Commodities	<a href="#">#2</a>
	Instrument Type	S - Swap	<a href="#">#1</a>
	Product	Swap	
	Level	InstRefDataReporting	
Product Definition Input	Notional Currency	GBP	
	Expiry date	2017-06-30	
	Return or Payout Trigger	C - Contract for Difference	<a href="#">#4</a>
	Delivery type	C - Cash	<a href="#">#6</a>
	Base Product	NRGY	
	Sub Product	NGAS	
	Additional Sub Product	GASP	
	Transaction Type	SWAP	
	Final Price type	OTHR	
	Reference Rate	NATURAL GAS-CHICAGO CITY-GATES-INSIDE FERC	
Product Definition Derived	Identification	ISIN	
	ISIN Status	New	
	Parent	<null>	
	Full Name	Commodities Swap NRGY NGAS GASP GBP 20170630	
	Classification Type	STJCXC	
	Commodity Derivative Indicator	TRUE	
	Issuer or operator of the trading venue identifier	NA	
	Short Name	NA/Swaps NRGY GASP GBP 20170630 <sup>1</sup>	
	Price Multiplier	1	
	Underlying Asset type	J - Energy	<a href="#">#3</a>

<sup>1</sup> Preliminary value – format & content of FISN currently under review



### 3.3 Basis\_Swap Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	CFI Char
Product Definition Selection	Asset Class	T - Commodities	<a href="#">#2</a>
	Instrument Type	S - Swap	<a href="#">#1</a>
	Product	Basis_Swap	
	Level	InstRefDataReporting	
Product Definition Input	Notional Currency	GBP	
	Expiry date	2017-06-30	
	Return or Payout Trigger	C - Contract for Difference	<a href="#">#4</a>
	Delivery type	C - Cash	<a href="#">#6</a>
	Base Product	NRGY	
	Sub Product	NGAS	
	Additional Sub Product	GASP	
	Other Base Product	NRGY	
	Other Sub Product	NGAS	
	Other Additional Sub Product	NCGG	
	Transaction Type	SWAP	
	Final Price type	OTHR	
	Reference Rate	NATURAL GAS-CHICAGO CITY-GATES-INSIDE FERC	
	Other Reference Rate	NATURAL GAS-NYMEX	
Product Definition Derived	Identification	ISIN	
	ISIN Status	New	
	Parent	<null>	
	Full Name	Commodities Swap Basis_Swap NRGY NGAS GASP NRGY NGAS NCGG GBP 20170630	
	Classification Type	STQCXC	
	Commodity Derivative Indicator	TRUE	
	Issuer or operator of the trading venue identifier	NA	
	Short Name	NA/Swaps NRGY GASP GBP 20170630	
	Price Multiplier	1	
	Underlying Asset type	Q - Multi Commodity	<a href="#">#3</a>

### 3.4 Multi\_Exotic\_Swap Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	CFI Char
Product Definition Selection	Asset Class	T - Commodities	<a href="#">#2</a>
	Instrument Type	S - Swap	<a href="#">#1</a>
	Product	Multi_Exotic_Swap	
	Level	InstRefDataReporting	
Product Definition Input	Notional Currency	GBP	
	Expiry date	2017-06-30	
	Underlying Instrument Index	BCOMAG, BCOMAG3 etc	
	Return or Payout Trigger	C - Contract for Difference	<a href="#">#4</a>
	Delivery type	C - Cash	<a href="#">#6</a>
	Transaction Type	SWAP	
	Final Price type	OTHR	
Product Definition Derived	Identification	ISIN	
	ISIN Status	New	
	Parent	<null>	
	Full Name	Commodities Multi_Exotic_Swap MCEX GBP 20170630	
	Classification Type	STQCXC	
	Commodity Derivative Indicator	TRUE	
	Issuer or operator of the trading venue identifier	NA	
	Short Name	NA/Swaps MCEX GBP 20170630	
	Price Multiplier	1	
	Base Product	MCEX	
	Sub Product	<null>	
	Additional Sub Product	<null>	
	Underlying Asset type	Q - Multi commodity	<a href="#">#3</a>

### 3.5 Option Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	CFI Char
Product Definition Selection	Asset Class	T - Commodities	<a href="#">#2</a>
	Instrument Type	H - Option	<a href="#">#1</a>
	Product	Option	
	Level	InstRefDataReporting	
Product Definition Input	Notional Currency	GBP	
	Expiry date	2017-06-30	
	Option type	Call	<a href="#">#4</a>
	Option exercise style	American	<a href="#">#4</a>
	Valuation Method or Trigger	V - Vanilla	<a href="#">#5</a>
	Delivery type	C - Cash	<a href="#">#6</a>
	Base Product	NRGY	
	Sub Product	NGAS	
	Additional Sub Product	GASP	
	Transaction Type	OPTN	
	Final Price type	OTHR	
	Reference Rate	NATURAL GAS-CHICAGO CITY-GATES-INSIDE FERC	
Product Definition Derived	Identification	ISIN	
	ISIN Status	New	
	Parent	<null>	
	Full Name	Commodities Option NRGY NGAS GASP GBP 20170630	
	Classification Type	HTJBVC	
	Commodity Derivative Indicator	TRUE	
	Issuer or operator of the trading venue identifier	NA	
	Short Name	NA/O NRGY GASP Call GBP 20170630	
	Price Multiplier	1	
	Underlying Asset type	J - Energy	<a href="#">#3</a>

### 3.6 Multi\_Exotic\_Option Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	CFI Char
Product Definition Selection	Asset Class	T - Commodities	<a href="#">#2</a>
	Instrument Type	H - Option	<a href="#">#1</a>
	Product	Multi_Exotic_Option	
	Level	InstRefDataReporting	
Product Definition Input	Notional Currency	GBP	
	Expiry date	2017-06-30	
	Underlying Instrument Index	BCOMAG, BCOMAG3 etc	
	Option type	Call	<a href="#">#4</a>
	Option exercise style	American	<a href="#">#4</a>
	Valuation Method or Trigger	V - Vanilla	<a href="#">#5</a>
	Delivery type	C - Cash	<a href="#">#6</a>
	Transaction Type	OPTN	
	Final Price type	OTHR	
Product Definition Derived	Identification	ISIN	
	ISIN Status	New	
	Parent	<null>	
	Full Name	Multi_Exotic_Option MCEX GBP 20170630	
	Classification Type	HTQBVC	
	Commodity Derivative Indicator	TRUE	
	Issuer or operator of the trading venue identifier	NA	
	Short Name	NA/O MCEX Call GBP 20170630	
	Price Multiplier	1	
	Base Product	MCEX	
	Sub Product	<null>	
	Additional Sub Product	<null>	
	Underlying Asset type	Q - Multi commodity	<a href="#">#3</a>

### 3.7 Swaption Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	CFI Char
Product Definition Selection	Asset Class	T - Commodities	<a href="#">#2</a>
	Instrument Type	H - Option	<a href="#">#1</a>
	Product	Swaption	
	Level	InstRefDataReporting	
Product Definition Input	Notional Currency	GBP	
	Expiry date	2017-06-30	
	Underlying instrument ISIN	EZ1122334455	
	Underlying Asset type	J - Energy	<a href="#">#3</a>
	Option type	Call	<a href="#">#4</a>
	Option exercise style	American	<a href="#">#4</a>
	Valuation Method or Trigger	V - Vanilla	<a href="#">#5</a>
	Delivery type	C - Cash	<a href="#">#6</a>
Product Definition Derived	Identification	ISIN	
	ISIN Status	New	
	Parent	<null>	
	Full Name	Commodities Swaption EZ1122334455 GBP 20170630	
	Classification Type	HTJBVC	
	Commodity Derivative Indicator	TRUE	
	Issuer or operator of the trading venue identifier	NA	
	Short Name	NA/O Swt Call GBP 20170630	
	Price Multiplier	1	

### 3.8 Forward Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	CFI Char
Product Definition Selection	Asset Class	T - Commodities	<a href="#">#2</a>
	Instrument Type	J - Forward	<a href="#">#1</a>
	Product	Forward	
	Level	InstRefDataReporting	
Product Definition Input	Notional Currency	GBP	
	Expiry date	2017-06-30	
	Return or Payout Trigger	F - Forward price of underlying instrument	<a href="#">#5</a>
	Delivery type	C - Cash	<a href="#">#6</a>
	Base Product	NRGY	
	Sub Product	NGAS	
	Additional Sub Product	GASP	
	Transaction Type	FUTR	
	Final Price type	OTHR	
	Reference Rate	NATURAL GAS-CHICAGO CITY-GATES-INSIDE FERC	
Product Definition Derived	Identification	ISIN	
	ISIN Status	New	
	Parent	<null>	
	Full Name	Commodities Forward NRGY NGAS GASP GBP 20170630	
	Classification Type	JTJXFC	
	Commodity Derivative Indicator	TRUE	
	Issuer or operator of the trading venue identifier	NA	
	Short Name	NA/Fwd NRGY GASP GBP 20170630	
	Price Multiplier	1	
	Underlying Asset type	J - Energy	<a href="#">#3</a>

### 3.9 Multi\_Exotic\_Forward Product Definition

Section	ISO Attributes	NATIVE ISO Example Values	CFI Char
Product Definition Selection	Asset Class	T - Commodities	<a href="#">#2</a>
	Instrument Type	J - Forward	<a href="#">#1</a>
	Product	Multi_Exotic_Forward	
	Level	InstRefDataReporting	
Product Definition Input	Notional Currency	GBP	
	Expiry date	2017-06-30	
	Underlying Instrument Index	BCOMAG, BCOMAG3 etc	
	Return or Payout Trigger	F - Forward price of underlying instrument	<a href="#">#4</a>
	Delivery type	C - Cash	<a href="#">#6</a>
	Transaction Type	FUTR	
	Final Price type	OTHR	
Product Definition Derived	Identification	ISIN	
	ISIN Status	New	
	Parent	<null>	
	Full Name	Multi_Exotic_Forward MCEX GBP 20170630	
	Classification Type	JTQXFC	
	Commodity Derivative Indicator	TRUE	
	Issuer or operator of the trading venue identifier	NA	
	Short Name	NA/Fwd MCEX GBP 20170630	
	Price Multiplier	1	
	Base Product	MCEX	
	Sub Product	<null>	
	Additional Sub Product	<null>	
	Underlying Asset type	Q - Multi commodity	<a href="#">#3</a>

## 4 Annex – ISO Commodity Classifications

<b>Base Product</b>		<b>Sub Product</b>		<b>Additional Sub Products</b>	
Agricultural	AGRI	Dairy	DIRY	<blank>	
Agricultural	AGRI	Forestry	FRST	<blank>	
Agricultural	AGRI	Grain	GRIN	MillingWheat	MWHT
Agricultural	AGRI	GrainOilSeeds	GROS	FeedWheat	FWHT
Agricultural	AGRI	GrainOilSeeds	GROS	Maize	CORN
Agricultural	AGRI	GrainOilSeeds	GROS	Other	OTHR
Agricultural	AGRI	GrainOilSeeds	GROS	Rapeseed	RPSD
Agricultural	AGRI	GrainOilSeeds	GROS	Rice	RICE
Agricultural	AGRI	GrainOilSeeds	GROS	Soybeans	SOYB
Agricultural	AGRI	Livestock	LSTK	<blank>	
Agricultural	AGRI	OliveOil	OOLI	Lampante	LAMP
Agricultural	AGRI	Potato	POTA	<blank>	
Agricultural	AGRI	Seafood	SEAF	<blank>	
Agricultural	AGRI	Softs	SOFT	Cocoa	CCOA
Agricultural	AGRI	Softs	SOFT	Other	OTHR
Agricultural	AGRI	Softs	SOFT	RawSugar	BRWN
Agricultural	AGRI	Softs	SOFT	RobustaCoffee	ROBU
Agricultural	AGRI	Softs	SOFT	WhiteSugar	WHSG
Energy	NRGY	Coal	COAL	<blank>	
Energy	NRGY	Distillates	DIST	<blank>	
Energy	NRGY	Electricity	ELEC	BaseLoad	BSLD
Energy	NRGY	Electricity	ELEC	FinancialTransmissionRights	FITR
Energy	NRGY	Electricity	ELEC	OffPeak	OFFP
Energy	NRGY	Electricity	ELEC	Other	OTHR
Energy	NRGY	Electricity	ELEC	PeakLoad	PKLD
Energy	NRGY	InterEnergy	INRG	<blank>	
Energy	NRGY	LightEnds	LGHT	<blank>	
Energy	NRGY	NaturalGas	NGAS	GasPool	GASP
Energy	NRGY	NaturalGas	NGAS	LNG	LNGG
Energy	NRGY	NaturalGas	NGAS	NBP	NBPG



Energy	NRGY	NaturalGas	NGAS	NCG	NCGG
Energy	NRGY	NaturalGas	NGAS	TTF	TTFG
Energy	NRGY	Oil	OILP	Bakken	BAKK
Energy	NRGY	Oil	OILP	Biodiesel	BDSL
Energy	NRGY	Oil	OILP	Brent	BRNT
Energy	NRGY	Oil	OILP	BrentNX	BRNX
Energy	NRGY	Oil	OILP	Canadian	CNDA
Energy	NRGY	Oil	OILP	Condensate	COND
Energy	NRGY	Oil	OILP	Diesel	DSEL
Energy	NRGY	Oil	OILP	Dubai	DUBA
Energy	NRGY	Oil	OILP	ESPO	ESPO
Energy	NRGY	Oil	OILP	Ethanol	ETHA
Energy	NRGY	Oil	OILP	Fuel	FUEL
Energy	NRGY	Oil	OILP	FuelOil	FOIL
Energy	NRGY	Oil	OILP	Gasoil	GOIL
Energy	NRGY	Oil	OILP	Gasoline	GSLN
Energy	NRGY	Oil	OILP	HeatingOil	HEAT
Energy	NRGY	Oil	OILP	JetFuel	JTFL
Energy	NRGY	Oil	OILP	Kerosene	KERO
Energy	NRGY	Oil	OILP	LightLouisianaSweet	LLSO
Energy	NRGY	Oil	OILP	Mars	MARS
Energy	NRGY	Oil	OILP	Naphta	NAPH
Energy	NRGY	Oil	OILP	NGL	NGLO
Energy	NRGY	Oil	OILP	Tapis	TAPI
Energy	NRGY	Oil	OILP	Urals	URAL
Energy	NRGY	Oil	OILP	WTI	WTIO
Energy	NRGY	RenewableEnergy	RNNG	<blank>	
Environmental	ENVR	CarbonRelated	CRBR	<blank>	
Environmental	ENVR	Emission	EMIS	CER	CERE
Environmental	ENVR	Emission	EMIS	ERU	ERUE
Environmental	ENVR	Emission	EMIS	EUA	EUAE
Environmental	ENVR	Emission	EMIS	EUAA	EUAA
Environmental	ENVR	Emission	EMIS	Other	OTHR

Environmental	ENVR	Weather	WTHR	<blank>	
Fertilizer	FRTL	Ammonia	AMMO	<blank>	
Fertilizer	FRTL	DiammoniumPhosphate	DAPH	<blank>	
Fertilizer	FRTL	Potash	PTSH	<blank>	
Fertilizer	FRTL	Sulphur	SLPH	<blank>	
Fertilizer	FRTL	Urea	UREA	<blank>	
Fertilizer	FRTL	UreaAndAmmoniumNitrite	UAAN	<blank>	
Freight	FRGT	ContainerShip	CSHP	<blank>	
Freight	FRGT	Dry	DRYF	DryBulkCarrier	DBCR
Freight	FRGT	Wet	WETF	Tanker	TNKR
IndustrialProduct	INDP	Construction	CSTR	<blank>	
IndustrialProduct	INDP	Manufacturing	MFTG	<blank>	
Inflation	INFL	<blank>		<blank>	
Metal	METL	NonPrecious	NPRM	Aluminium	ALUM
Metal	METL	NonPrecious	NPRM	AluminiumAlloy	ALUA
Metal	METL	NonPrecious	NPRM	Cobalt	CBLT
Metal	METL	NonPrecious	NPRM	Copper	COPR
Metal	METL	NonPrecious	NPRM	IronOre	IRON
Metal	METL	NonPrecious	NPRM	Lead	LEAD
Metal	METL	NonPrecious	NPRM	Molybdenum	MOLY
Metal	METL	NonPrecious	NPRM	NASAAC	NASC
Metal	METL	NonPrecious	NPRM	Nickel	NICK
Metal	METL	NonPrecious	NPRM	Other	OTHR
Metal	METL	NonPrecious	NPRM	Steel	STEL
Metal	METL	NonPrecious	NPRM	Tin	TINN
Metal	METL	NonPrecious	NPRM	Zinc	ZINC
Metal	METL	Precious	PRME	Gold	GOLD
Metal	METL	Precious	PRME	Other	OTHR
Metal	METL	Precious	PRME	Palladium	PLDM
Metal	METL	Precious	PRME	Platinum	PTNM
Metal	METL	Precious	PRME	Silver	SLVR
MultiCommodityExotic	MCEX	<blank>		<blank>	
OfficialEconomicStatistics	OEST	<blank>		<blank>	

Other	OTHR	<blank>		<blank>	
OtherC10	OTHC	Deliverable	DLVR	<blank>	
OtherC10	OTHC	NonDeliverable	NDLV	<blank>	
Paper	PAPR	Containerboard	CBRD	<blank>	
Paper	PAPR	Newsprint	NSPT	<blank>	
Paper	PAPR	Pulp	PULP	<blank>	
Paper	PAPR	RecoveredPaper	RCVP	<blank>	
Polypropylene	POLY	Plastic	PLST	<blank>	