ECM DOCUMENT 4

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EFET STANDARDS 1.0
CORE COMPONENTS & CODING SCHEME

VERSION 0.7.

CREATED BY EFET IT TF – BUSINESS WORKGROUP

Revision History

Version	Date	Changes	Author of changes
Version 0.0		Draft based on data collected by Malte Möller and the EFET IT TF – business workgroup	Kris Bouckaert (Transmeta)
Version 0.1		Reviewed by Mike Conroy: • Core components • Normalization of codes	Mike Conroy (Schlumberger Sema)
Version 0.2	26/8/2002	Context specific components • Renamed market to country • Added context specific components buyer and seller energy account – energy account identification. • Added contract capacity Conventions • Modified convention on time interval to refer to local time for delivery point rather than UTC time. Coding Scheme • Included energy account identifications. • Removed cross border delivery point codes. Reviewed hub codes to be more globally traded locations. • Modified load type, trade type codes to be more meaningful and adapted size in consequence • Modified new message type, role, coding scheme codes to be more meaningful, • Eliminated index codes…	Sophie van der Haegen (Electrabel)
Version 0.3	27/8/2002	• Realignment coding scheme	Mike Conroy (Schlumberger Sema)
Version 0.4	4/9/2002	• Move country, currency and unit of measure codes to section III and add EIC/EAN code examples • Add different instances of GTMA master agreement • Add UK power definition	Kris Bouckaert
Version 0.5	9/9/2002	Changes after meeting on 5/9/2002 in Amsterdam	Kris Bouckaert

		• Add UK bank holidays • Use EAN codes for commodity • Remove total value as a field • Add Copyright note • Move protocol issues to separate document • Align Document names	
Version 0.6	30/9/2002	Add 2 fields for England & Wales. Change market field to contain also sub-country markets of the U.K.	Kris Bouckaert
Version 0.7.	7/10/2002	• Align core component names and descriptions to document 5 • Copyright notice	Sophie van der Haegen (Electrabel)

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I. INTRODUCTION 6

II. CORE COMPONENTS 7

II.1. BASIC CORE COMPONENTS 8
II.2. CONTEXT SPECIFIC CORE COMPONENTS 11

III. USE OF CODE STANDARDS 15

IV. POWER DEFINITIONS 17

IV.1.1. Base, Peak & Off-peak Definition 17
IV.1.2. Holidays 17
IV.1.3. Total Quantity determination 18

V. EFET CODING SCHEME 19

V.1. DOCUMENT TYPE 19
V.2. CODING SCHEME 19
V.3. ROLE 19
V.4. TRADE TYPE 20
V.5. LOAD TYPE 20
V.6. REASON CODE 20
V.7. AGREEMENT 20
V.8. ENERGY ACCOUNT 21
V.9. MARKET 21
V.10. TRANSMISSION CHARGE 21

VI. EFET ISSUED EIC CODES 22

VI.1. TRADING PARTIES 22
VI.2. BROKERS 22
VI.3. VIRTUAL TRADING HUBS 23

VII. ANNEX 24

VII.1. LIST OF PHYSICAL DELIVERY AREA IDENTIFICATIONS 24
VII.2. LIST OF COUNTRY CODES 24
VII.3. LIST OF MEASUREMENT UNIT CODES 24
VII.4. LIST OF CURRENCY CODES 25
VII.5. LIST OF COMMODITY CODES 25

I. INTRODUCTION

Code conventions and best practices for the technical implementation of ECM and other EFET compliant interfaces will be described here.

This document is thus by no means limited to the use within the ECM process but intended to be used and extended to support other implementations related to other processes.

The actual implementation of this standard within the ECM processes and the description of the EFET ECM standards interface is the subject of **EFET ECM doc5 - EFET Standards 1.0 - ECM Interface Definition**.

II. CORE COMPONENTS

The core components respect the basic principles defined by ebXML (with the exception of the naming convention which will be introduced as soon as an approved standard is published).

Core components are the basic building blocks of the message interchange system.

The ebXML definition of a core component is “a building block for the creation of a semantically correct and meaningful information exchange ‘parcel’. It contains only the information pieces necessary to describe a specific concept”.

There are two kinds of core component:

1. Basic core components that are context independent and may be used in their native mode or in a context specific mode through the addition of a prefix name that qualifies its use within the defined context.
2. Context specific “core components” that are used within a specific message context. These components will automatically inherit all the attributes of the basic core component but will have a specific definition to clearly explain its use.

Each of the context specific core components will be assigned a name such as “Buyer Party” and Seller Party”. The words “Buyer” and “Seller” identify the function of a party within the context in which the basic core component is used.

II.1. BASIC CORE COMPONENTS

				Datatype
NAME	**Synonym**	**DEFINITION**	**Rep.**	**Size**
Identification		A code to uniquely distinguish one occurrence of an entity from another.	AN	35
Version		A code that distinguishes one evolution of an identified object from another. Information about a specific object may be sent several times, each transmission being identified by a different version number.	N	3
Document Type		The coded type of a document. The document type describes the principal characteristic of a document.	AN	3
Coding Scheme		Codification scheme used to identify the authorized authority that assigned a set of coded values to identify specific objects.	AN	3
Role		Identification of the role played by a party.	AN	3
Document Creation Date And Time		Date and time of the preparation of a document. The time must be expressed in UTC in compliance with ISO 8601 as: YYYY-MM-DDTHH:MM:SSZ.	AN	20
Date Time		The date and time of an event. The date and time must be expressed in a form respecting ISO 8601: YYYY-MM-DDTHH:MMZ ISO 8601 rules for reduction may apply.	AN	35
Commodity	Product	The identification of the nature of an energy product such as Power, gas, oil, active power, reactive power, etc.	N	13
Area		A domain covering a number of related objects, such as balance area, grid area, country, etc.	AN	18
Load type	Contract type	The load type defines the conditions under which energy is purchased, allocated and	AN	3

				Datatype
NAME	**Synonym**	**DEFINITION**	**Rep.**	**Size**
		handled. EG: In the case of TSO communications it represents: daily auction, weekly auction, monthly auction, yearly auction, etc. In the case of Trader to Trader communications it represents: Base load, peak load, etc… The significance of this type is dependent on area specific coded working methods.		
Measurement Unit		The unit of measure that is applied to a quantity. The measurement units shall be in compliance with UN/ECE Recommendation 20.	AN	3
Party		The identification of an actor in the Energy market.	AN	16
Trade Type	Business type	The exact business nature identifying the principal characteristic of the object it describes. For example in TSO exchanges it identifies the nature of the schedule time series (production, internal trade, etc..). Whereas in Trader to Trader interchanges it identifies the nature of the pricing mechanism used (fixed price, indexed, etc..).	AN	3
Market		The identification of the market where the commodity is traded; This market corresponds with a country, except for the U.K. In this context it uses ISO 3166-1 2 alpha codes is used for their identification, extended with special codes for the U.K.	AN	3
Date		Identification of a particular calendar day by its calendar year, its calendar month and its ordinal number within its calendar month. The date shall respect ISO 8601 formatting extended format YYYY-MM-DD. Leading zeros shall be used.	AN	10
Time		A point within a unit of time of 24 hours. The time shall respect ISO 8601 formatting extended format HH:MM:SS.	AN	8
Name		A word or combination of words constituting the individual designation by which a person, animal, place, or thing is known.	AN	35
Quantity		The number of occurrences of an object. Positive quantities shall not have a sign. A quantity shall always be expressed to 3 digit places, comma-separated and with leading zeros suppressed.	N	17

				Datatype
NAME	**Synonym**	**DEFINITION**	**Rep.**	**Size**
		By convention the quantity should always be expressed in MegaWatts (code MAW).		
Currency		The specification of a monetary unit respecting ISO 4217 3 alpha codes.	AN	3
Price		The sum of money, expressed in monetary units, that an object may be bought or sold. A price shall always be expressed to 6 digit places, comma-separated with leading zeros suppressed. The price shall be reported per unit of quantity and thus per unit of measure per unit of quantity. Therefore in the case of a fixed price trade, the price field should contain the price per quantity per MW. In the case of an indexed trade, price can contain a constant expressed in price per MW to be added to the indexed price.	N	17
Reason code		The coded motivation of an act.	AN	3
Reason text		The textual explanation of an act.	AN	512

II.2. CONTEXT SPECIFIC CORE COMPONENTS

NAME	DEFINITION	Originating base core component	SIZE Restriction	Context employed
Document Identification	The unique identification of a document.	Identification		Confirmation, Authentication/ Cancellation, Acknowledgement / Rejection
Document Version	Version of the document being sent. An entire document may be sent several times with the same identification. The version is used to distinguish one instance of the same document from another with the same identification.	Version		Confirmation, Authentication/ Cancellation, Acknowledgement / Rejection
Sender role	Identification of the role that is played by the sender.	Role		Confirmation, Authentication/ Cancellation, Acknowledgement / Rejection
Receiver role	Identification of the role that is played by the receiver.	Role		Confirmation, Authentication/ Cancellation, Acknowledgement / Rejection
Sender Identification	Identification of the party who is sending the document.	Identification	16	Confirmation, Authentication/ Cancellation, Acknowledgement / Rejection

NAME	DEFINITION	Originating base core component	SIZE Restriction	Context employed
Receiver Identification	Identification of the party who is receiving the document.	Identification	16	Confirmation, Authentication/ Cancellation, Acknowledgement / Rejection
Buyer party	The party that is purchasing the commodity.	Party		Confirmation
Seller party	The party that is selling the product	Party		Confirmation
Buyer Energy Account Identification	Only relevant for transactions within England and Wales.	Identification		Confirmation
Seller Energy Account Identification	Only relevant for transactions within England and Wales.	Identification		Confirmation
Trade date	The date that a transaction was concluded. Must be expressed in local time.	Date		Confirmation
Trade Time	The time of day that a transaction was concluded. Must be expressed in local time.	Time		Confirmation
Broker Party	The identification of a middlemen that is used to carry out a transaction	Party		Confirmation
Agreement identification	The identification of an agreement between two parties	Identification		Confirmation
Notification Agent Party	The identification of the Party responsible for notifying the transaction to the Energy Contract Volume Aggregation Agent (ECVAA) for England and Wales.	Party		Confirmation
Transmission charge identification	A code specifying if Schedule 5 is on or off, only for England & Wales	Identification		Confirmation
Trader Name	The specific name of the person that concluded a transaction	Name		Confirmation, Authentication
Delivery Start Date & Time	The start date and time of the time interval for a period. The resulting duration is expressed in minutes for a single quantity period.	Date & Time	yyyy-mm-ddThh:mm	Confirmation

NAME	DEFINITION	Originating base core component	SIZE Restriction	Context employed
	The time interval shall always be expressed in the time zone of the commodity delivery area.			
Delivery End Date & Time	The end date and time of the time interval for a period. The resulting duration is expressed in minutes for a single quantity period. The time interval shall always be expressed in the time zone of the commodity delivery area.	Date & Time	yyyy-mm-ddThh:mm	Confirmation
Contract Capacity Quantity	The contract capacity of the commodity that has been negotiated.	Quantity		Confirmation
Total volume	The total volume of a commodity that has been negotiated in a transaction	Quantity		Confirmation
Delivery point Area	The area where the commodity is being delivered. In general this refers to the hub on which the commodity is delivered.	Area	18	Confirmation
Capacity unit	The unit of measurement in which capacity is expressed	Measurement Unit		Confirmation
Reference document type	The identification of the document being acknowledged or rejected. This must correspond to an identification of the document sent in a previous transmission.	Document Type		Acknowledgement / Rejection
Reference document Identification	The identification of a Document that has been authenticated/acknowledged/rejected or that should be cancelled.	Identification		Authentication/ Cancellation, Acknowledgement / Rejection
Reference document Version	The version of a Document that has been authenticated/acknowledged/rejected or that should be cancelled.	Version		Authentication/ Cancellation, Acknowledgement / Rejection

NAME	DEFINITION	Originating base core component	SIZE Restriction	Context employed
Reference Document Type	The identification of the document being acknowledged or rejected. This must correspond to an identification of the document sent in a previous transmission.	Document Type		Acknowledgement / Rejection
Counter Party	The identification of the COUNTER party of the transaction to which the authentication relates.	Party		Authentication
Counterparty document Identification	The identification of the confirmation document sent by the COUNTER party of a transaction that has been matched with that of the party that receives the authentication.	Identification		Authentication
Counterparty document Version	The version of the confirmation document sent by the COUNTER party of a transaction that has been matched with that of the party that receives the authentication.	Version		Authentication
Counterparty Trade Time	The time of day that a transaction was concluded as mentioned in the counterparty trade confirmation document. Must be expressed in local time.	Time		Authentication
Counterparty Trader Name	The specific name of the person that concluded a transaction as mentioned in the counterparty trade confirmation document.	Name		Authentication

III. USE OF CODE STANDARDS

Component	Coding Scheme or Format	Comment
Measurement units	UN/ECE Recommendation 20.	See annex for list of frequently used codes
Currency codes	ISO 4217 3 alpha codes	See annex for list of frequently used codes
Date & time	ISO 8601 YYYY-MM-DDTHH:MM:SSZ. Shall be expressed in UTC. Midnight is 00:00.	Note: Z refers to Zulu time, being a synonym to Coordinated Universal Time or UTC (formerly known as Greenwich Mean Time or GMT).
Time interval	ISO 8601: YYYY-MM-DDTHH:MM/YYYY-MM-DDTHH:MM. The **time interval for the delivery period** shall be expressed in **delivery zone local time** and NOT in UTC.	ISO 8601 rules for reduction may apply. The second value of the time interval indicates an EXCLUSIVE limit.
Market	The ISO 3166-1 2 alpha codes are used for the markets that correspond to a country. Special codes are added to the sub-country markets within the U.K.	This EFET coding scheme partly exists of the ISO controlled standard country, extended with EFET controlled codes to identify the markets within the U.K.
Commodity	EAN code	See annex for list of frequently used codes
Delivery areas	EIC codes	For the physical delivery areas, EIC codes issued by ETSO will be used. Additional EIC codes will be issued and maintained by EFET for virtual trading hubs. See annex for list of ETSO EIC codes for physical delivery areas.
Party	EIC code	EIC company codes for brokers and trading parties will be issued by EFET. It is still under discussion whether the EFET standard will allow the parallel use of EAN codes[1]. In any case, the EIC code will get strong preference above EAN code.

Note:

EIC codes can be issued by ETSO, EFET or another issuing office and have the following form: NNxABCDEFGHIJKLc:

- NN : Issuing office
- x : digit indicates the type of EIC code, e.g. 'X' indicates a party identification code

[1] At this moment, it is not clear yet if al companies will be able to use the EIC code, as companies in some countries could be legally obliged to use the EAN identification code instead. Countries like the Netherlands and the Scandinavian countries have had such a rule. Therefore, the structure of the party identification codes should allow for other coding schemes.

- AB..L : A 12 digit identification code
- c : Check digit

IV. POWER DEFINITIONS

IV.1.1. BASE, PEAK & OFF-PEAK DEFINITION

Base is the calculated volume of Power that shall be transferred during 24 hours. Can be calculated as

Base = Power MW * Total Number of Hours or

Base = Off Peak MWh / Number of Off Peak Hours * Total Number of Hours.

Peak is the calculated volume of Power that shall be transferred during the Peak hours. The definition of Peak hours is delivery market dependent.

Off-Peak is the calculated volume of Power that shall be transferred during the Off-Peak hours. The definition of Off-Peak hours is delivery market dependent.

For delivery period, the LOCAL TIME APPLICABLE for the delivery zone shall be used.

MARKET	PEAK **(LOCAL TIME)**		OFF PEAK **(LOCAL TIME)**		Non working days are..
	Working days	Non-working days	Working days	Non-working days	
Dutch Power	7h => 23h	NA	0h => 7h and 23h => 24h	0h => 24h	Weekends AND Dutch Official Holidays*
German Power	8h => 20h	NA	0h => 8h and 20h => 24h	0h => 24h	Weekends
French Power	8h => 20h	NA	0h => 8h and 20h => 24h	0h => 24h	Weekends
Swiss Power	8h => 20h	NA	0h => 8h and 20h => 24h	0h => 24h	Weekends
Austrian Power	8h => 20h	NA	0h => 8h and 20h => 24h	0h => 24h	Weekends
Belgian Power	7h => 23h	NA	0h => 7h and 23h => 24h	0h => 24h	Weekends
UK Power	7h => 19h		23h => 7h and 19h => 23h	23h => 23h	Weekends AND UK Official Holidays*

Important Note: a UK Power base delivery period for day D is by convention defined as starting at 23h D-1 and ending at 23h D (local time).

IV.1.2. HOLIDAYS

Dutch Holidays:

- New Year's Day (1st of January)
- Easter Monday

- Queens Day (30th of April)
- Ascension Day
- White Monday
- Christmas Day (25th of December)
- Second Christmas Day (26th of December)

UK Holidays:

- New Year's Day (1st of January)
- Good Friday
- Easter Monday
- May day (First Monday of May)
- Spring bank holiday (Last Monday of May)
- Summer bank holiday (Last Monday of August)
- Christmas Day (25th of December)
- Boxing Day (26th of December)

IV.1.3. TOTAL QUANTITY DETERMINATION

Total Quantity shall be the capacity multiplied by the total number of delivery hours across the entire delivery period and is expressed in MWh.

V. EFET CODING SCHEME

Note

The codes in italic are not part of this release of the EFET standards and are given purely as indication for future extensions of the EFET standards to support other than fixed priced physical power forward trade confirmations for UK & Continental Europe.

V.1. DOCUMENT TYPE

CODE	Description
CNF	Trade confirmation Document
AUT	Peer to peer authentication Document
CAN	Cancellation Document
...	...

V.2. CODING SCHEME

CODE	Description
A01	EIC
A10	EAN
EFT	EFET

V.3. ROLE

CODE	Role Name	Description
A01	Trade responsible party	Refer to role model definitions.
A02	Consumption responsible party	Refer to role model definitions.
A03	Combined power exchange	Refer to role model definitions.
A04	System operator	Refer to role model definitions.
A05	Imbalance settlement responsible	Refer to role model definitions.
A06	Production responsible party	Refer to role model definitions.
A07	Transmission capacity allocator	Refer to role model definitions.
A08	Resource supplier	Refer to role model definitions.
MSP	Matching service provider	
TRD	Trader	
BRK	Broker	

V.4. TRADE TYPE

CODE	Shorthand	Description
FIX	FIXED	Fixed Physical Trade as defined in Annex 2a of EFET Agreement or Annex Form Confirmation of GTMA
...	...	...

V.5. LOAD TYPE

CODE	Shorthand	Description
BAS	BASE	Power delivered continuously across the delivery period.
PEA	PEAK	Power delivered during the peak hours. The definition of peak hours is delivery market dependent. (see preceding chapter)
OFF	OFFPEAK	Power delivered during the off-peak hours. The definition of off-peak hours is delivery market dependent. (see preceding chapter)

V.6. REASON CODE

CODE	Description
E01	Memo information concerning a trade confirmation
E02	Matching service provider timeout rejection
E03	Peer to peer timeout rejection
E04	Message header initial processing error
E05	Transaction initial processing error

V.7. AGREEMENT

Identification	Description
EF21	EFET Master Agreement Version 2.1 / December 20, 2000
GTMA	Grid Trade Master Agreement A
GTMB	Grid Trade Master Agreement B
GTMC	Grid Trade Master Agreement C
GTM7	Grid Trade Master Agreement 7

V.8. ENERGY ACCOUNT

Identification	Description
CONS	Consumption account
PROD	Production account

V.9. MARKET

This EFET code exists partly of the ISO 3166-1 2 alpha codes for country. These codes are controlled by ISO. A list of country codes, applicable for EFET, has been added in the annex (VII.2).

This list is extended with a set of 3 alpha EFET controlled codes, to identify the sub-country markets within the UK:

Identification	Description
GB2	England and Wales
GBS	Scotland
GBN	Northern Ireland
GB3	England, Wales and Scotland

V.10. TRANSMISSION CHARGE

Identification	Description
50N	Schedule 5 on
50FF	Schedule 5 off

VI. EFET ISSUED EIC CODES

VI.1. TRADING PARTIES

EIC codes to be issued by EFET.

VI.2. BROKERS

EIC codes to be issued by EFET.

EIC	Shorthand	Description
	BRAPB	APB ENERGY EUROPE AS
	BRARE	Artic Energy Brokers AS
	BRBER	Bergen Energi
	BRBHF	BHF Bank
	BRBIE	Bierbaum
	BRBLB	BLOOMBERG POWERMATCH
	BRCLR	Credit Lyonais Rouse Ltd.
	BRCMA	CAPITAL MARKETS ENERGY DESK
	BREDF	ED&F MAN INTERNATIONAL LTD
	BREPL	ENERGY PLUS LIMITED
	BRFIZ	CANTOR FITZGERALD INTERNATIONAL
	BRGFI	GFI Brokers Ltd.
	BRGON	GFINet UK Limited or GFI online???
	BRGTE	GT ENERGY LTD (GASTEAM)
	BRHOB	HOB Ireland Ltd.
	BRHSE	HOUSTONSTREET EXCHANGE LTD
	BRHWH	HWH ENERGIMEGLING AS
	BRICA	BRICAP INTERCAPITAL
	BRICE	INTERCONTINENTAL EXCHANGE
	BRICS	Intercapital Commodity SWAPS limited
	BRIEB	INTERCONTINENTAL ENERGY BROKERS (DERIVS) LTD
	BRIMO	INTERMONEY ENERGIA SA
	BRITS	POWERITS GMBH
	BRLIN	LINK
	BRLOW	LOWLANDS ENERGY BROKERS BV
	BRMKR	M3 Kraft as

	BRNAT	NATSOURCE TULLET EUROPE LTD
	BRPMY	PREBON MARSHALL YAMANE
	BRPRY	PREBON YAMANE
	BRSCE	SE Scherbeck Energy GmbH
	BRSKM	SKM EUROPEAN ENERGY BROKERS
	BRSPO	SPECTRON ON-LINE
	BRSPT	SPECTRON
	BRSTA	STARSUPPLY ENERGY LTD
	BRSUN	SUNRISE ASSET COMPANY
	BRTFL	Tradition Finacial ServicesLimited
	BRTFS	Tradition Finacial Services GmbH
	…	….

VI.3. VIRTUAL TRADING HUBS

EIC codes to be issued by EFET.

EIC	Shorthand	Description
	HUNBP	*UK National Balancing Point*
	HUZBH	*Zeebrugge Hub Virtual Hub*

VII. ANNEX

VII.1. LIST OF PHYSICAL DELIVERY AREA IDENTIFICATIONS

Code (ETSO EIC codes)	Description
	Any point on the UK NGC 380kv grid
	Any point on ELIA 380kv grid
	Any point on ENBW 380kv grid
	Any point on E.ON 380kv grid
	Any point on RTE 380kv grid
	Any point on ERWE 380kv grid
	Any point on Tennet 380kv grid

VII.2. LIST OF COUNTRY CODES

CODE (ISO 3166-1)	Description
DE	GERMANY
FR	FRANCE
BE	BELGIUM
CH	SWITZERLAND
AT	AUSTRIA
NL	THE NETHERLANDS
DK	DENARK
GB	UNITED KINGDOM
NO	*NORWAY*
SE	*SWEDEN*
...	...

VII.3. LIST OF MEASUREMENT UNIT CODES

The measurement unit shall be compliant with UN/ECE Recommendation 20.

CODE (UN/ECE	Shorthand	Description

Recommendation 20)		
MAW	Megawatt (ISO common code)	A unit of bulk power flow, which can be defined as the rate of energy transfer /consumption when a current of 1000 amperes flows due to a potential of 1000 volts at unity power factor..
MWH	Megawatt hour (ISO common code)	The total amount of bulk energy transferred or consumed.
MAH	Megavolt ampere reactive hours (non standard code, request ISO code)	Total amount of reactive power across a power system.
MAR	Megavolt ampere reactive (non standard code, request ISO code)	A unit of electrical reactive power represented by a current of one thousand amperes flowing due to a potential difference of one thousand volts where the sine of the phase angle between them is 1.

VII.4. LIST OF CURRENCY CODES

CODE (ISO 4217)	Description
EUR	Euro
USD	US Dollar
GBP	UK POUND
CHF	SWISS FRANC
NOK	NORWEGIEN KRONER
DKK	DANISH KRONER
SEK	SWEDISH KRONER

VII.5. LIST OF COMMODITY CODES

The standard EAN codes for commodities are used.

EAN code	Description
8716867000016	Active Power[2]
8716867000023	*Reactive Power*
??	*Gas*
...	...

[2] It was decided to split the commodity "Power" into "Active Power" and "Reactive Power".