



eCCW Service

PRESENTATION

15 October, Brussels
16 October, Amsterdam and Paris
17 October, Lisbon
22 October, London and Paris

eCCW Service Presentation

The scope of the meeting / presentation is to provide an overview of the eCCW offer, including a functional presentation

eCCW Service Presentation

AGENDA

- Objectives & Scope of the offer
- Steps & Timelines
- How to connect & security
- Functional presentation
 - Main windows & respective features
 - Improvements / changes
- Questions & Answers

Objectives

- To replace the current LCH.Clearnet workstation (CCW) by a more flexible and less expensive solution (EUR 200 per access)
- Quick implementation: no hardware, Internet connection
- To enhance ergonomics & navigation by using web technology

Scope

- Same functions as currently offered by the CCW in order to reduce time to market
- Move of the C21 member window from the current PC-embedded solution to a new internet browser-based interface
- Internet Connectivity facility allowing application access from everywhere
- No obligation to dedicate hardware
- Enhanced versions will be released as from 2008

- eCCW access cards: delivered to members as from September
- User Guide: embedded in the software
- Members presentation's sessions: October

Target timelines – To be confirmed in due course

- Start eCCW EUA testing with members: October
- eCCW service launch: November
- eCCW and CCW parallel run in Production until end of 2007/beginning 2008
- CCW dismantling: beginning of 2008

- Reminder
 - 2 Types of architecture relying on the private network between LCH.Clearnet and the clearing members
 - CCW over MSA
 - Single or redundant MSA architecture connected to 2 Mbps leased line
 - CCW over MSA is shared with CAP/MAP
 - Some CCW over dedicated access (when no MSA available)
 - Dedicated access router connected to 64 kbps leased line
 - Max simultaneous CCW connected : 3

- Connection possible through:
 - Internet (new)
 - Using internet provider of the member
 - eCCW services accessed from any member workstation (although an authentication process has to take place through the respective secure ID)
 - Over MSA
 - Through member private LAN solution (new)
 - Through LCH Clearnet public LAN solution (dedicated PC)
 - Over Dedicated Access (if already existing)
 - Member private LAN solution (new)
 - LCH.Clearnet public LAN solution (dedicated PC)

- Each eCCW access package includes:
 - 2 eCCW access cards (1 for production and 1 for tests)
 - Optional: 1 eCCW access card for back up
- The access is secured by eCCW access card (based on RSA SecurID®)
- Each member must nominate one eCCW Security Administrator (EMSA) in charge of the management of the access to eCCW services:
 - Definition/modification of member users profiles (reading, writing rights)
 - Management of eCCW access cards
 - Support, follow-up of users
 - Single point of contact with LCH.Clearnet (activation of eCCW cards, changes, re-assignment of eCCW cards,..)

- Access to the respective URLs depending if the desired environment is test or production environment, if it is cash or derivatives market and of the network chosen (Internet or MSA dedicated access)
- Connection through Internet:
 - [https://eua.lchclearnet.e-ccw.com /Cash](https://eua.lchclearnet.e-ccw.com/Cash)
 - [https://eua.lchclearnet.e-ccw.com /Derivatives](https://eua.lchclearnet.e-ccw.com/Derivatives)
 - [https://prod.lchclearnet.e-ccw.com /Cash](https://prod.lchclearnet.e-ccw.com/Cash)
 - [https://prod.lchclearnet.e-ccw.com /Derivatives](https://prod.lchclearnet.e-ccw.com/Derivatives)
- Connection through MSA or dedicated access
 - [https://eua.wan.lchclearnet.e-ccw.com /Cash](https://eua.wan.lchclearnet.e-ccw.com/Cash)
 - [https://eua.wan.lchclearnet.e-ccw.com /Derivatives](https://eua.wan.lchclearnet.e-ccw.com/Derivatives)
 - [https://prod.wan.lchclearnet.e-ccw.com /Cash](https://prod.wan.lchclearnet.e-ccw.com/Cash)
 - [https://prod.wan.lchclearnet.e-ccw.com /Derivatives](https://prod.wan.lchclearnet.e-ccw.com/Derivatives)

- Enter your:
 - Login name
 - Unique user name, linked to only one token in a given environment (production or user test)
 - provided by LCH.Clearnet at member's request
 - based on the first and last name of the users (so, surname.name for production environment & test.surname.name, for testing)
 - PIN code on the access card
 - Unknown by the card and only known by the user
 - initial PIN code is provided by LCH.Clearnet to EMSA
- Press the \diamond key

- You will obtain your PASS code (displayed by the card once the PIN code has been entered); for security reasons, the PASS code is not displayed on the computer screen at the authentication time
- The eCCW access card generates passwords that can be used only once: this means that after a maximum of 60 seconds, the code changes and the user must enter again the PIN code and press the \diamond key, in order to have a new password
- 2nd connection with the same access card generates an immediate logout
- In case of failure of connection, the user should wait until a new code is posted before any new attempt or press P to initialize the card and restart the procedure

How to Connect – Access Card

eCCW Service

- The access card code is displayed for 60 seconds maximum. This symbol indicates the validity period of the code. To obtain the password, enter your pin code (4 digits) on the keyboard
- 1 indicates that the password displayed is valid
- Press the \diamond key to obtain your code
- The P key allows the user to reinitialize the code displayed on the screen



Customer Technical Helpdesk – LCH.Clearnet SA

- To replace the current technical support by CTS
- Fully operational before end of 2007 (starting date to be confirmed soon)
- Starting with eCCW support
- Opening hours from 7.00 AM to 8.00 PM (CET)

Telephone: +33 1 70 37 66 00

Fax: +33 1 70 37 65 05

Email: lchclearnetsa_cth@lchclearnet.com

- Functional support available through the Operations Department as of today or by your dedicated relationship manager.

eCCW Presentation

Functional overview

eCCW service preview

One simple access to CLEARING 21®

- Same functionalities for cash and derivatives segments
- Concerning derivatives, some additional options exist, linked specifically to the derivatives segment (exercises, abandonment's, internal and external transfers, off settings → detailed in the coming slides)
- eCCW enables users (like previously the CCW) to access the CLEARING 21® system, being the main clearing functionalities:

In real time :

- To carry out the management of trades integrated in CLEARING 21®
- To carry out the management of positions in CLEARING 21®
- to get an overview of the account structure that is registered in CLEARING 21® (also set up & cancellation for derivatives segment)
- To extract messages (sent and received) for processing
- To extract clearing data according to criteria defined by the user (new)

After batch process:

- To get information on positions (corporate actions, actions on positions resulting from exercises, give-up's / take-up's, transfers, corrections)
- To download and to print public and private files from CLEARING 21®

eCCW service preview

General Design

- The eCCW application contains:
 - The header indicates the environment (Production/EUA, the market Cash/Derivatives) and the user name
 - The menu bar: allows the user to reach the sub-menus that are associated
 - The main windows types:
 - List windows: provides information regarding the messages sent and received by CLEARING 21®
 - Detail windows: allows the user to obtain the details of a selected line
 - Command windows: allows the user to display a command menu

eCCW service preview

The main menus of the eCCW web page

601/MONEP

Home Accounts Positions Trades Requests Reportings

Home

LCH.Clearnet WebClear Application

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Messages Settings Help Log out

Terminé Intranet local

- Home / Accueil : To return to the main screen
- Account / Comptes : Position Account's Management
- Positions / Positions: Position Management
- Trades / Négociations : Trade screen and management (postings, give-up's, corrections)
- Requests / Demandes: Take up, External correction and external transfer acceptances
- Reporting / Rapports: Referential, batch milestone, public and private files extraction through FTP, sent / received / rejected messages

eCCW service preview

Settings (1)

Language: interface is bilingual and users can define the number of lines they want to see in a specific menu (default configuration = 10 lines)

The screenshot shows the 'Settings' dialog box with the 'General' tab selected. It features three sub-tabs: 'General', 'Displayed columns', and 'Status colors'. Under the 'Language' section, there are two radio buttons: 'French' (unselected) and 'English' (selected). Below that, the 'Lines number of lists' section has a text input field containing the number '10'. At the bottom right, there are three buttons: 'Apply', 'Cancel', and 'OK'.

Columns: users can choose the columns they want to display, per menu

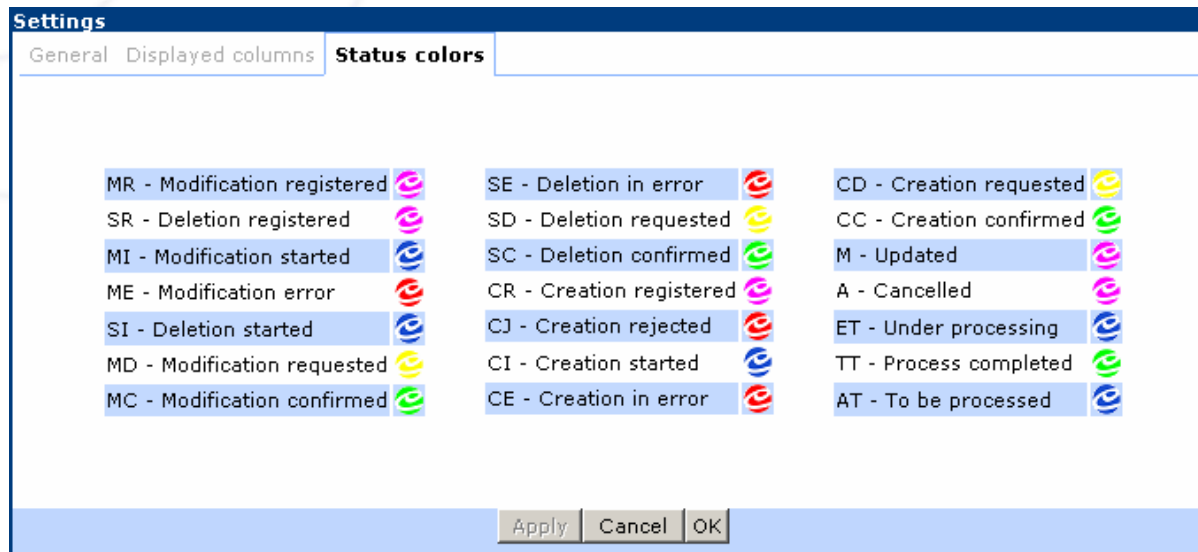
The screenshot shows the 'Settings' dialog box with the 'Displayed columns' tab selected. A dropdown menu labeled 'List' is set to 'Trade legs'. Below this, there are two columns of text. The left column, titled 'Available columns', lists various fields such as 'C/P', 'C21 TS', 'COE of del. id.', 'Clearing info', 'Corp. event id.', 'Ctpr. mbr. code', 'Default fee', 'Exch. id.', 'Exec. mbr.', 'Fee type', 'Fin. market', 'GU dest. mbr.', 'GU sending mbr.', 'Guarantee ind.', 'ISIN code', 'Maturity date', 'Memo', and 'PS order nbr.'. Between the two columns are two sets of double-headed arrows. The right column, titled 'Selected columns', lists 'Clearing org.', 'Status', 'Trade type', 'Prod. family', 'Ext. trade id.', 'TL. bus. date', 'Trade leg id.', 'Trading date', 'B/S', 'Contract id.', 'Traded qty', 'Unit price', 'O/C', 'Brokerage Fee', and 'Matching TS'. To the right of the 'Selected columns' list are 'Up' and 'Down' buttons. At the bottom of the dialog, there are 'Apply', 'Cancel', and 'OK' buttons.

eCCW service preview

Settings (2)

The meaning of the different status attributed to each message exchanged with CLEARING 21®, is now available in eCCW application; it allows users to follow, in real time, the status of each message (improvement towards the previous CCW);

“status” types are grouped per colours (could be customised by user)



eCCW service preview

- As a reminder
- Trade's status:
 - TT – trade totally processed
 - AT – trade must be processed (waiting for a posting or give-up command)
 - ET – trade partially processed
 - A – trade cancelled
- Commands and response status:
 - The first letter always indicates the type of command message, in accordance to:
 - C, for command
 - M, for modification
 - S, for cancellation
 - The second letter indicates the nature of reply coming from CLEARING 21®:
 - D, for requested (no reply received from CLEARING 21® towards a command sent)
 - C, for confirmed
 - R, for registered
 - E, for error
 - I, for initiated
 - J, for rejected

eCCW service preview

Messages

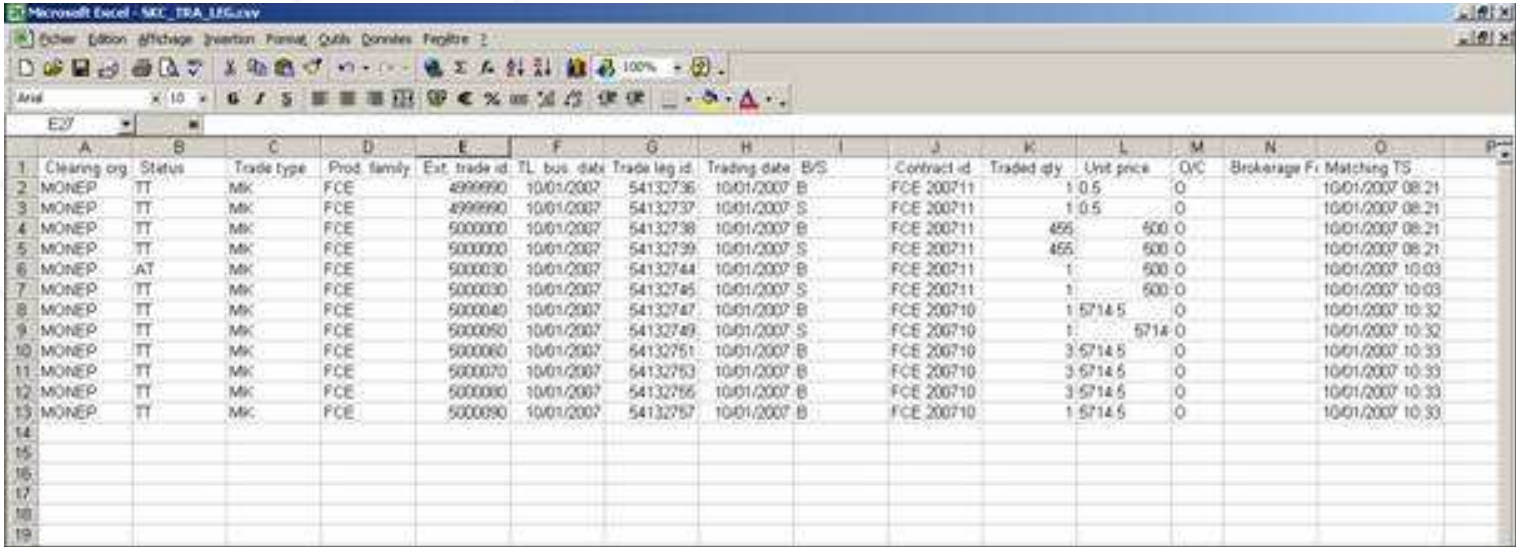
- This window concerns the last messages (with an historical of approximately 10 messages) that the member has received, concerning take up's, external corrections and external transfers
- In the above screen, the CMF 601 has received an external transfer request

Messages list			
ID	Date	Message	To
26552093	09/14/2007	External transfer acceptance request received	601/MONEP

Close

eCCW service preview

Download Function (2)

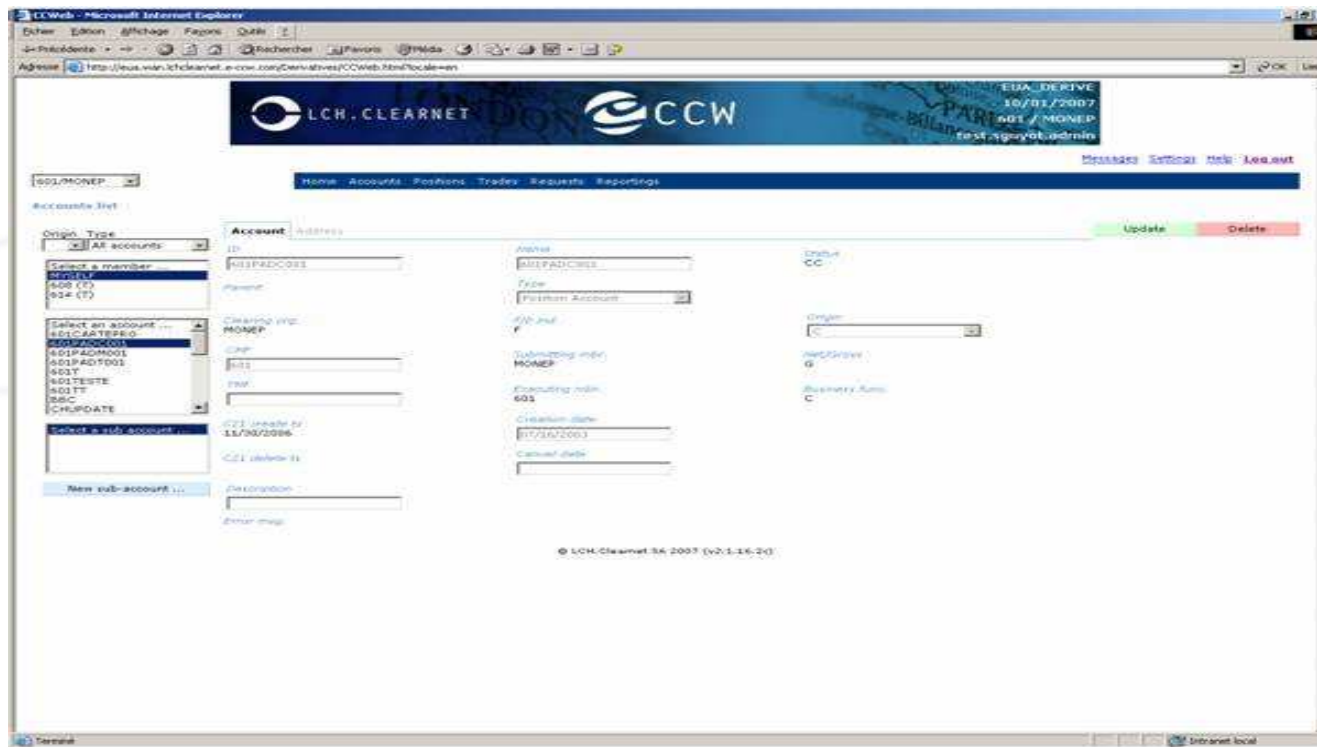


The screenshot shows a Microsoft Excel spreadsheet with a table of trade data. The table has 16 columns and 19 rows. The columns are labeled A through P, and the rows are numbered 1 through 19. The data is as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Cleaving org	Status	Trade type	Prod family	Ext. trade id	TL bus date	Trade leg id	Trading date	B/S	Contract id	Traded qty	Unit price	O/C	Brokerage Fr	Matching TS	
2	MONEP	TT	MK	FCE	4999990	10/01/2007	54132736	10/01/2007	B	FCE 200711	1.05	0			10/01/2007 08:21	
3	MONEP	TT	MK	FCE	4999990	10/01/2007	54132737	10/01/2007	S	FCE 200711	1.05	0			10/01/2007 08:21	
4	MONEP	TT	MK	FCE	5000000	10/01/2007	54132738	10/01/2007	B	FCE 200711	455	500.0			10/01/2007 08:21	
5	MONEP	TT	MK	FCE	5000000	10/01/2007	54132739	10/01/2007	S	FCE 200711	455	500.0			10/01/2007 08:21	
6	MONEP	JAT	MK	FCE	5000030	10/01/2007	54132744	10/01/2007	B	FCE 200711	1	500.0			10/01/2007 10:03	
7	MONEP	TT	MK	FCE	5000030	10/01/2007	54132745	10/01/2007	S	FCE 200711	1	500.0			10/01/2007 10:03	
8	MONEP	TT	MK	FCE	5000040	10/01/2007	54132747	10/01/2007	B	FCE 200710	1.57145	0			10/01/2007 10:32	
9	MONEP	TT	MK	FCE	5000050	10/01/2007	54132749	10/01/2007	S	FCE 200710	1	5714.0			10/01/2007 10:32	
10	MONEP	TT	MK	FCE	5000060	10/01/2007	54132751	10/01/2007	B	FCE 200710	3.57145	0			10/01/2007 10:33	
11	MONEP	TT	MK	FCE	5000070	10/01/2007	54132753	10/01/2007	B	FCE 200710	3.57145	0			10/01/2007 10:33	
12	MONEP	TT	MK	FCE	5000080	10/01/2007	54132756	10/01/2007	B	FCE 200710	3.57145	0			10/01/2007 10:33	
13	MONEP	TT	MK	FCE	5000090	10/01/2007	54132757	10/01/2007	B	FCE 200710	1.57145	0			10/01/2007 10:33	
14																
15																
16																
17																
18																
19																

eCCW service preview

Accounts menu



eCCW service preview

Accounts menu

☉ This window allows:

- ☉ For cash, to consult the different position accounts
- ☉ For derivatives, not only to consult, but also to create, up-date and cancel (deleted by batch process) position accounts
- ☉ CMF's can view their accounts and the accounts of the TMF's they clear
- ☉ TMF's can view all the position accounts they have opened within their clearers
- ☉ When consulting their account structure, users can choose to view the different accounts opened per origin and/or type

eCCW service preview

Positions menu

ESIA_DERIVE
10/01/2007
601 / MONEP
test.sguy@lchclearnet.com

Home Accounts Positions Trades Requests Reportings

Contract ISIN code Position

Download 1 - 10 of 17

CHF	TMR	Clearing org.	Pos. acct.	NW/Gross Bal.	Contract id.	Prod. Status	Sett. Date	Guarantee	Expt. Dte.	Long Qty	Pos. Size	ISIN code	Trading Sta.
601		MONEP	601PADM001	N	FTI 200710	FTI		Y		30	0		
601		MONEP	601PADM001	N	AAB 200710 C 20	AAB		Y		0	8		
601		MONEP	601PADM001	N	AAB 200912 C 10	AAB		Y		1	0		
601		MONEP	601PADM001	N	AEX 200912 C 522	AEX		Y		0	1		
601		MONEP	601PADM001	N	AEL 200710 F 52	AEL		Y		0	5		
601		MONEP	601PADM001	N	AEL 200710 C 36	AEL		Y		1	0		
601		MONEP	601PADM001	N	AEX 200912 C 560	AEX		Y		0	11		
601		MONEP	601PADM001	N	FTI 200712	FTI		Y		0	134		
601		MONEP	601PADM001	N	FTI 200803	FTI		Y		0	1824		
601		MONEP	601PADM001	N	AAB 200710 C 35	AAB		Y		0	2		

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eCCW service preview

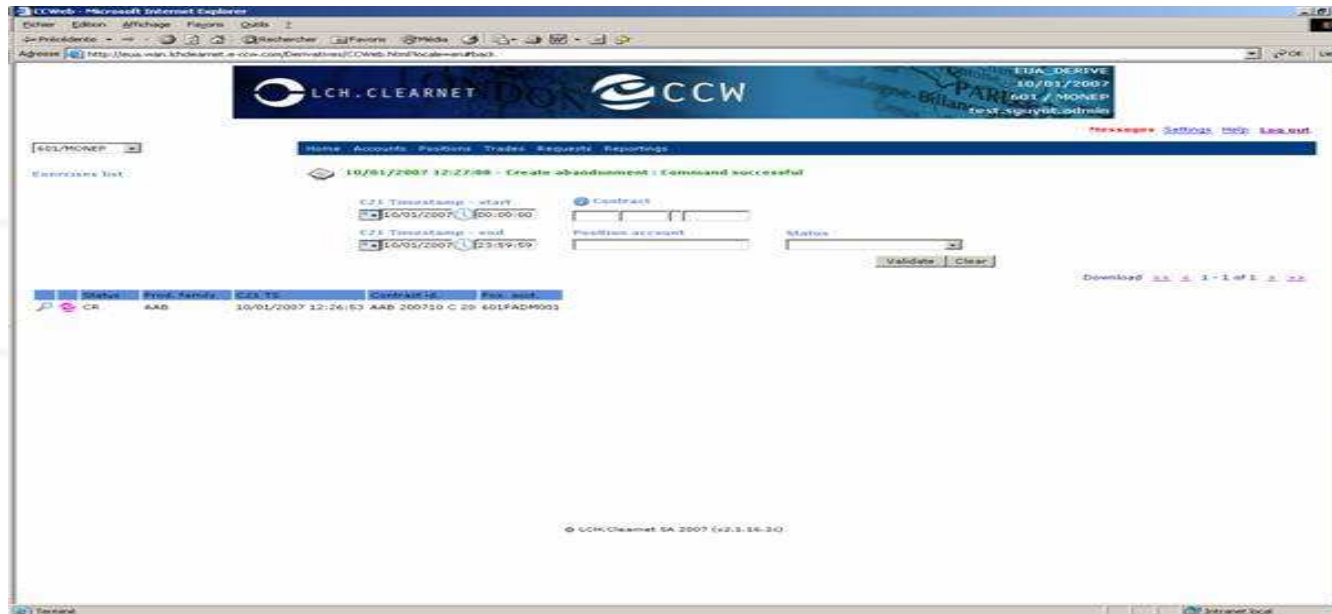
Positions menu

☉ This window allows:

- ☉ CMF's to view their own long/short positions, as well as those of the TMF's they clear
- ☉ TMF's to view, the positions they have, per position account, with their different clearers
- ☉ Users can choose to view the different positions per account origin and/or type

eCCW service preview


Positions menu – Functions for derivatives only - EXERCISE



- The checking of the exercise request status, will allow to follow the progress of the exercise
- Current exercise is in a status CR, which means that it has been registered in CLEARING 21® and will become CC whenever confirmed by CLEARING 21®

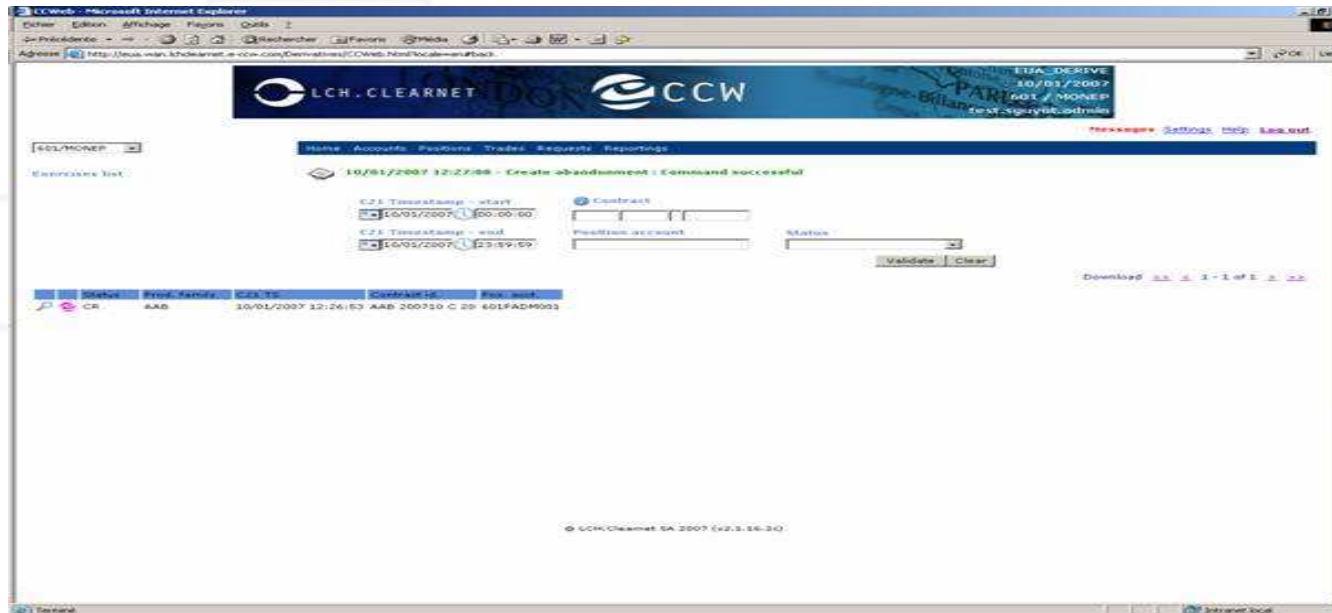
eCCW service preview

EXERCISE

- With exercise command, users can exercise, totally or just partially, a position
- Users should access the positions menu, in order to display the positions they want to exercise
- The position to be exercised can be selected with the contract type, ISIN code or position
- After having outlined the position's to exercise (by clicking on the magnifying glass,  that will lead to the “position details screen”), user should select the “create exercise” command
- Users can also access to a window which displays all the sent exercises and from which they can cancel an exercise for the current business day (only exercises with status CR or CC can be cancelled)
- Improvements on this function should be announced soon

eCCW service preview


Positions menu – Functions for derivatives only - ABANDONMENT



⦿ Only abandonment with status CR or CC can be cancelled

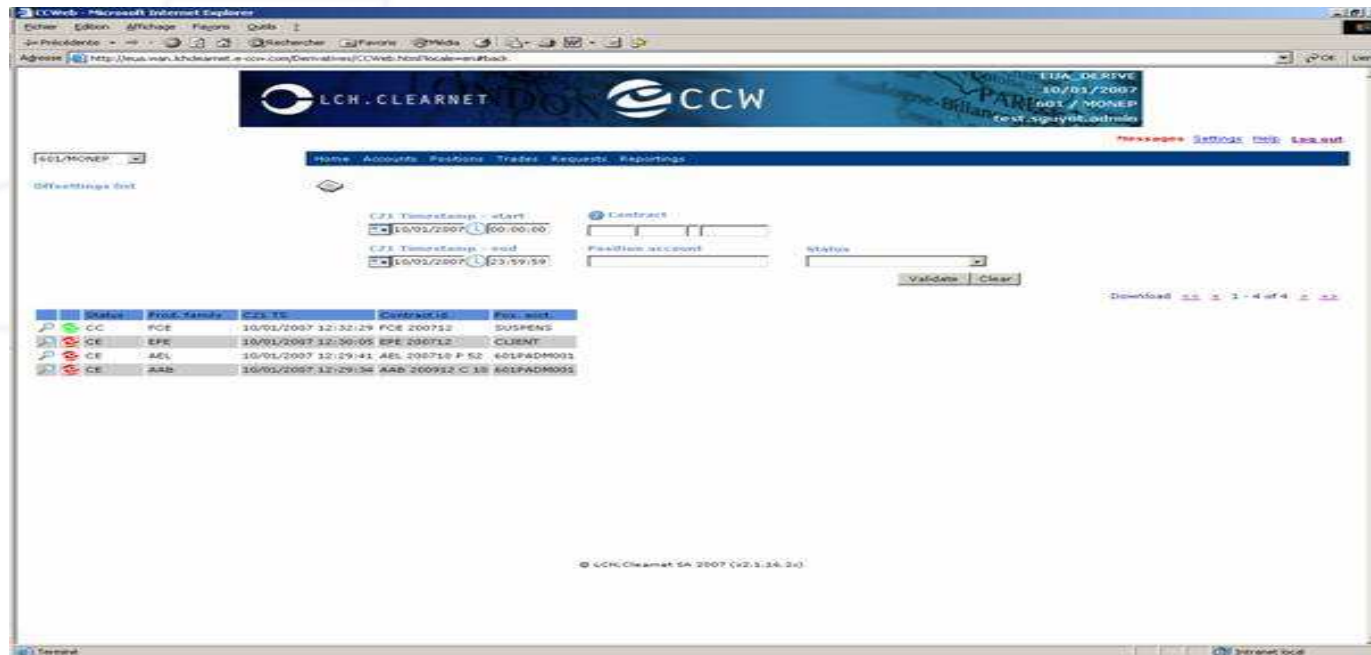
eCCW service preview

ABANDONMENT

- This window allows:
 - To check abandonment's and their statuses carried out during the expiration day
 - To carry out a cancellation
 - To perform an abandonment, users should access the positions menu, in order to display the positions they want to abandon
 - After having outlined the position's to abandon, (by clicking on the magnifying glass  , that will lead to the “position details screen”), user should select the “create abandonment” command
 - Improvements on this function should be announced soon

eCCW service preview

Positions menu – Functions for derivatives only – OFFSETTING



Only offsets with status CC can be cancelled

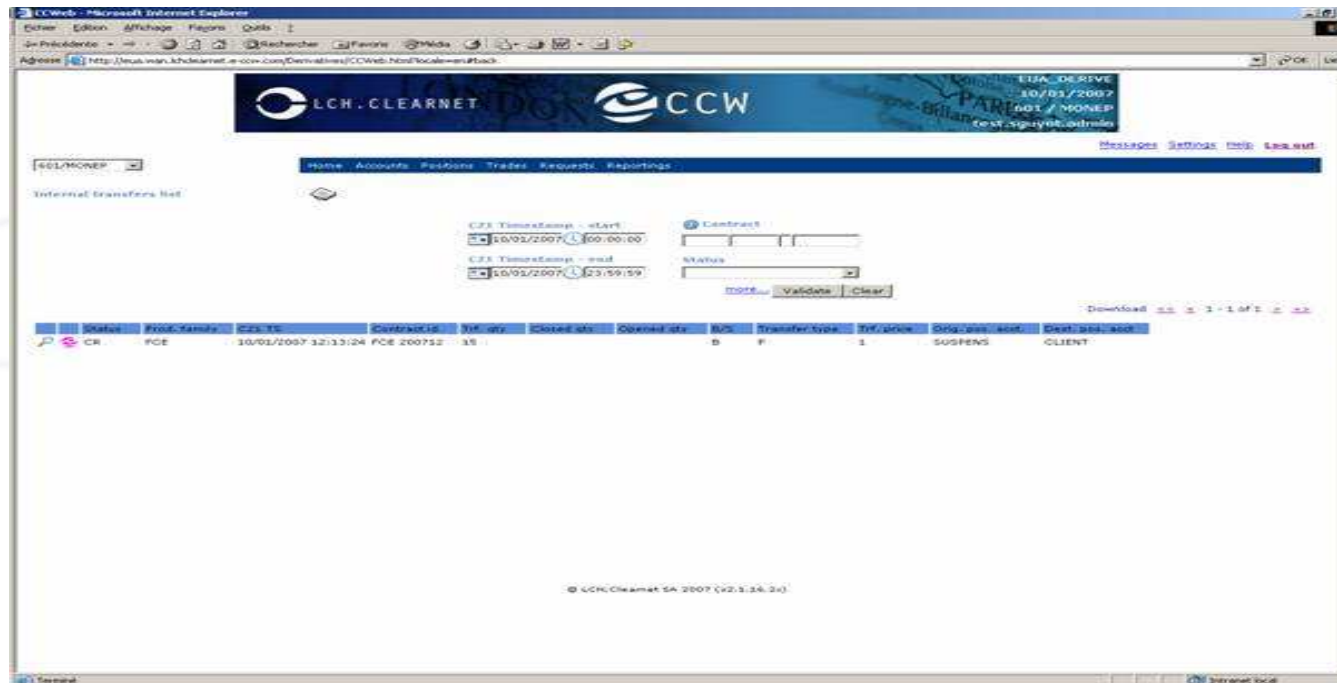
eCCW service preview

OFFSETTING

- This window allows:
 - To check offsets and their statuses carried out during the current day
 - to carry out a cancellation during the day
 - To perform an offsetting, users should access the positions menu, in order to display the positions they want to offset
 - After having outlined the position(s) to offset, (by clicking on the magnifying glass that will lead to the “position details screen”), user should select the “create offsetting” command

eCCW service preview


Positions menu – Functions for derivatives only – Internal Transfer



Only transfers with status CR can be cancelled

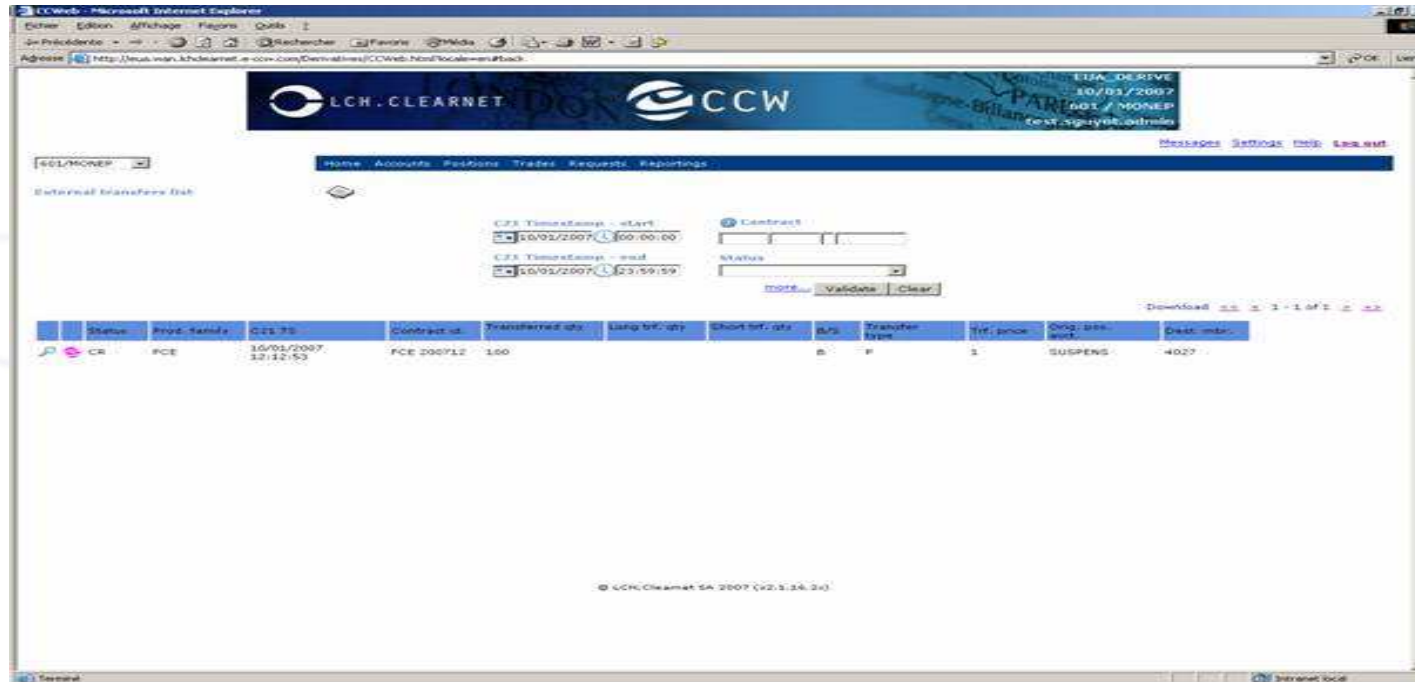
eCCW service preview

Internal Transfer

- This window allows:
 - To check internal transfers and their statuses carried out during the current day
 - To carried out a cancellation (only if it was not yet validated by the Clearing House)
 - The internal transfer of positions is made between two accounts of the same member
 - To perform an internal transfer, users should access the positions menu, in order to display the positions they want to transfer
 - After having outlined the correct line to be transferred (by clicking on the magnifying glass  that will lead to the “position details screen”), user should select the “create internal transfer” command
 - The position that had been transferred will disappear from the sending position account, to appear, in real time, in the destination position account, after the transfer has been validated by LCH.Clearnet

eCCW service preview


Positions menu – Functions for derivatives only – External Transfer



Only transfers with status CR can be cancelled

eCCW service preview

External Transfer

- This window allows:
 - To check external transfers and their statuses carried out during the current day
 - To carried out a cancellation (only if it was not yet accepted by the destination member)
 - The external transfer of positions is requested between two accounts of two members
 - To perform an external transfer, users should access the positions menu, in order to display the positions they want to transfer
 - After having outlined the correct line to be transferred, (by clicking on the magnifying glass  that will lead to the “position details screen”), user should select the “create external transfer” command

eCCW service preview

Trade leg menu

The screenshot shows the LCH.CLEARNET eCCW interface. At the top, there are navigation tabs: Home, Accounts, Positions, Trades, Requests, and Reports. Below this is a 'Trade Leg List' section with search filters for 'Contract' and 'Status'. A table displays trade leg data with columns: Contract, Status, Trade Leg, Prod. Party, Est. Trade Mt, Tr. Qty, Date, Trade Leg, Trading Date, B/S, Contract Mt, Traded Qty, Ask/Bid, B/S, Brokerage Fee, and Handling Fee. A legend box on the left lists trade leg types: A, AT, ET, TT. A blue arrow points from the legend to the 'Trade Leg' column in the table.

Contract	Status	Trade Leg	Prod. Party	Est. Trade Mt	Tr. Qty	Date	Trade Leg	Trading Date	B/S	Contract Mt	Traded Qty	Ask/Bid	B/S	Brokerage Fee	Handling Fee
MONEP	AT	PK	EPE	5000290	15/03/2007	91801707	10/03/2007	S	EPE	205603	200	243	O		10/03/2007 10/21/12
MONEP	AT	PK	EPE	5000290	15/03/2007	91801706	10/03/2007	B	EPE	205603	200	243	O		10/03/2007 10/21/12
MONEP	AT	PK	EPE	5000280	15/03/2007	91801705	10/03/2007	S	EPE	205712	200	243.5	O		10/03/2007 10/21/12
MONEP	AT	PK	EPE	5000280	15/03/2007	91801704	10/03/2007	B	EPE	205712	200	243.5	O		10/03/2007 10/21/12
MONEP	AT	PK	EPE	5000270	15/03/2007	91801703	10/03/2007	S	EPE	205606	200	245.5	O		10/03/2007 10/19/10
MONEP	AT	PK	EPE	5000270	15/03/2007	91801702	10/03/2007	B	EPE	205606	200	245.5	O		10/03/2007 10/19/10
MONEP	AT	PK	EPE	5000260	15/03/2007	91801701	10/03/2007	S	EPE	205603	500	165	O		10/03/2007 10/17/13
MONEP	AT	PK	EPE	5000260	15/03/2007	91801700	10/03/2007	B	EPE	205603	500	165	O		10/03/2007 10/17/13
MONEP	TT	PK	FCE	5000250	15/03/2007	91801697	10/03/2007	S	FCE	205710	1	5005	O		10/03/2007 10/14/19
MONEP	TT	PK	FCE	5000250	15/03/2007	91801696	10/03/2007	B	FCE	205710	1	5005	O		10/03/2007 10/14/19

A
AT
ET
TT

- ☉ Total Quantities (on buying and selling side) are now displayed, which represents an enhancement of eccw
- ☉ Users can also perform a multi-posting or multi-give up command, which constitutes also an improvement: for that, the desired trade legs have to be ticked and the multi posting or multi give-up command performed

eCCW service preview

Trade leg menu

☉ This window allows:

- ☉ To check the trade legs coming from the Exchange and respective status
- ☉ To carry out postings, give-up commands and corrections (only for derivatives)
- ☉ To visualize, on a selected trade, the postings and give-up's linked to that trade
- ☉ Only trade legs with status AT or ET can be posted or given up

eCCW service preview

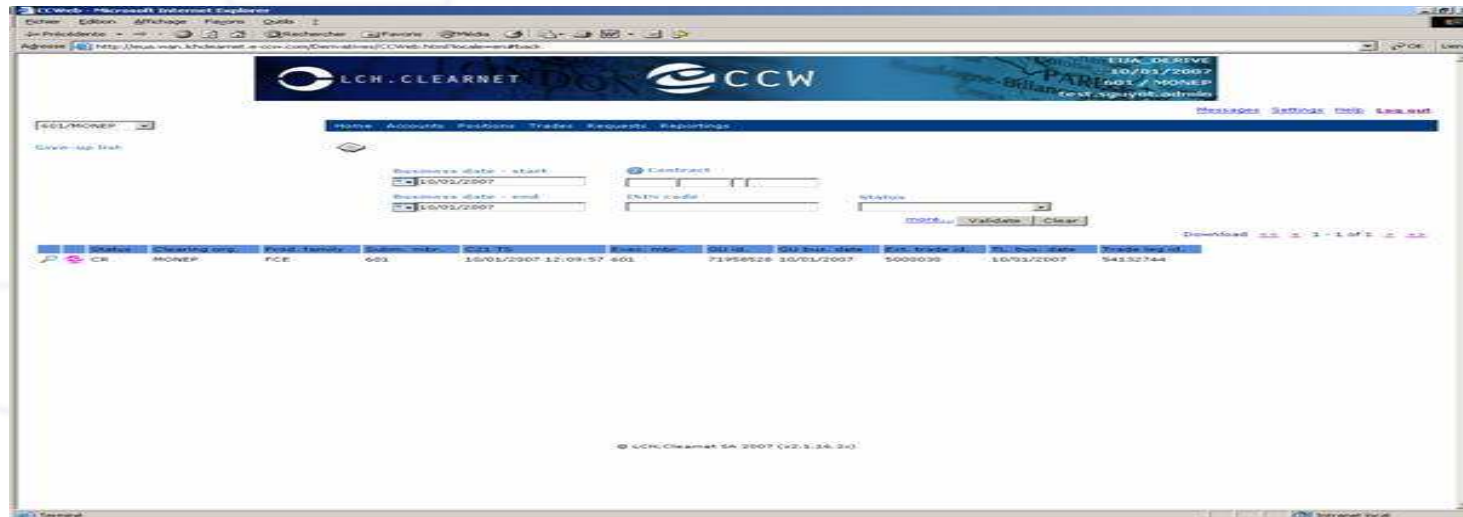
Posting window



- ⦿ To check postings that are carried out during the current day and respective statuses
- ⦿ To perform modification and cancellation of postings (cancellation changes the trade leg status, that becomes AT or ET, which means that it is mandatory to post or give up the trade again)
- ⦿ Only postings with status CC or CI can be modified or cancelled

eCCW service preview

Give-Up window



- ☉ To check give-up's that are carried out during the current day and respective statuses
- ☉ To perform modification and cancellation of give-up's (cancellation changes the trade leg status, that becomes AT or ET, which means that it is mandatory to post or give up the trade again)
- ☉ Only postings with status CR or CD can be modified or cancelled

eCCW service preview

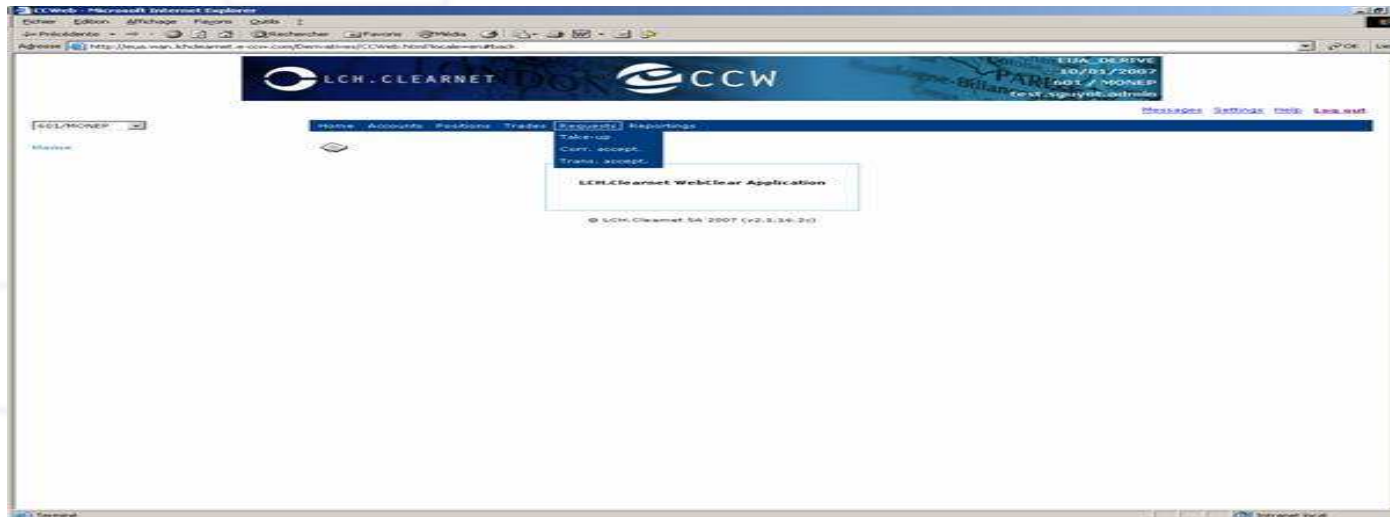
Corrections window - Function for derivatives only



- To check the internal and / or external corrections performed
- As from trade date +1, the up-date of postings have to be done through the corrections function
- Internal Correction (within the account structure of a member)
- External correction (between account structures of different members)

eCCW service preview

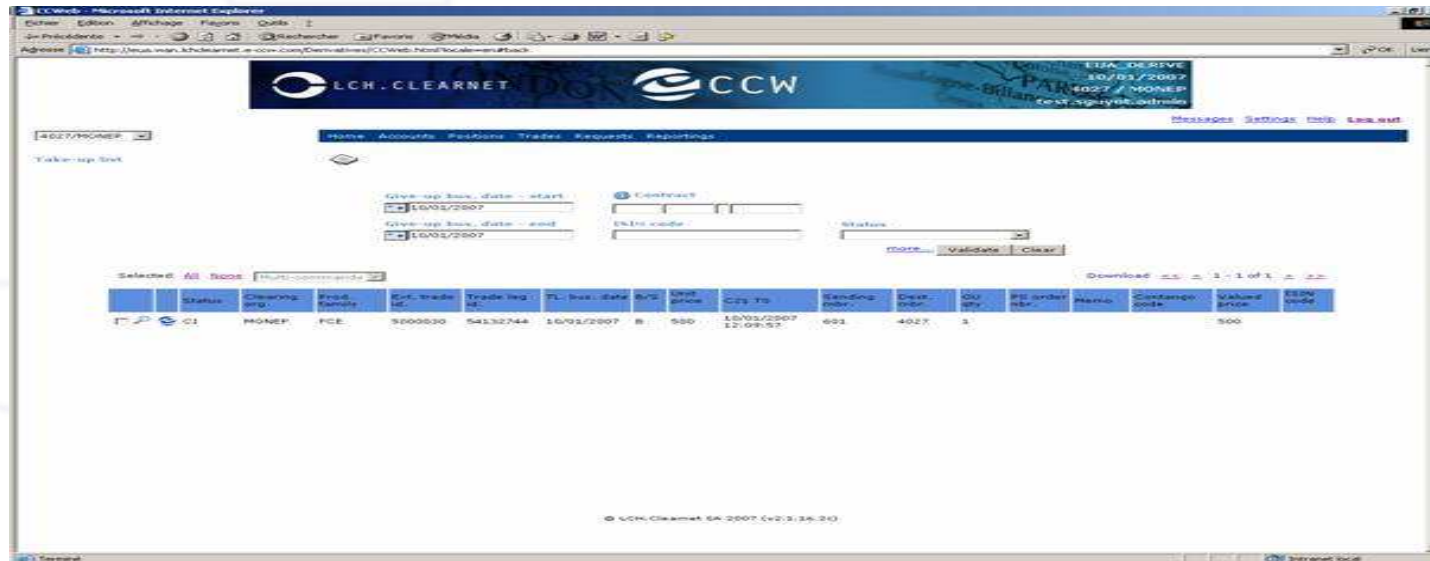
Request Menu



- Request menu allows to visualize the requests coming from other members
- To visualize / accept give-up's, external transfers and external corrections received
- Only give-up's, external transfer and external corrections with status CI can be accepted

eCCW service preview

Take-Up window



- ⦿ To check give-up's sent by other members
- ⦿ To carry out take-up's
- ⦿ To check their statuses
- ⦿ It is possible to perform multi take-up acceptance

eCCW service preview

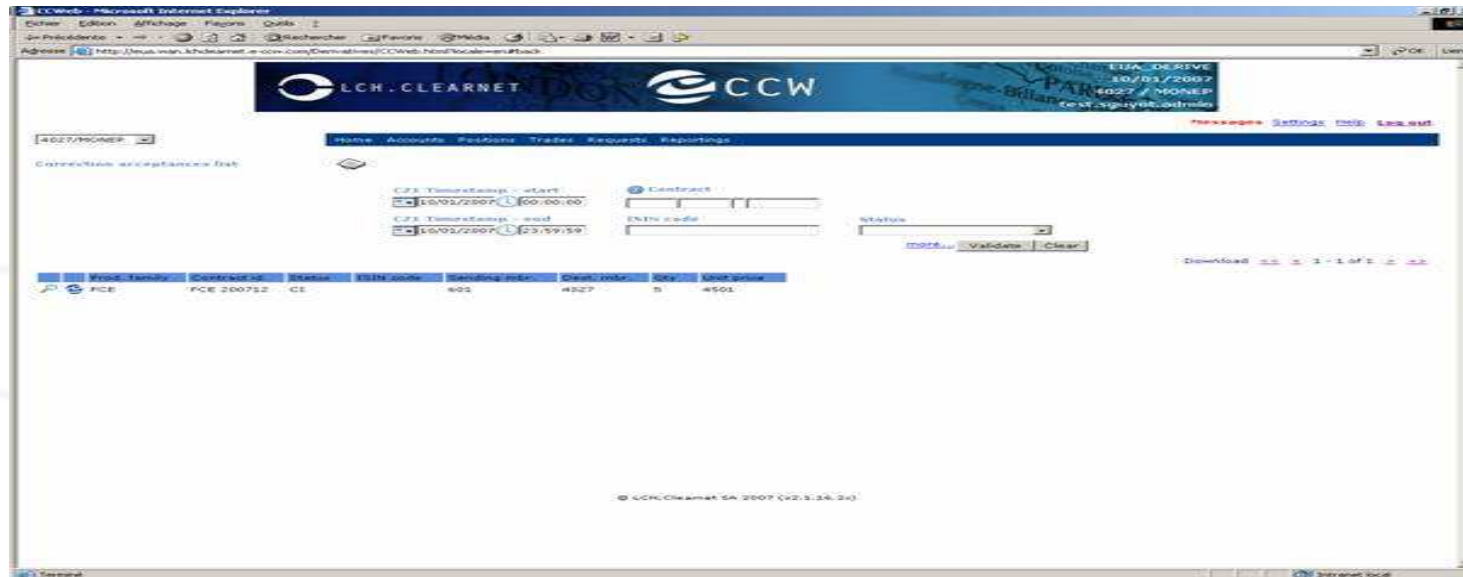
Transfers window



- To check external transfers sent by other members
- To carry out external transfers acceptance (having the transfer to be submitted to the LCH.Clearnet approval)
- To check their statuses

eCCW service preview

Corrections window



- To check external corrections sent by other members
- To carry out external corrections acceptance
- To check their statuses

eCCW service preview

FTP transfer window - Public Files



Public files contains specific files on clearing prices, market open interest, voluntary derivatives exercises, closing prices (for equities), SPAN file, derivatives referential

eCCW service preview

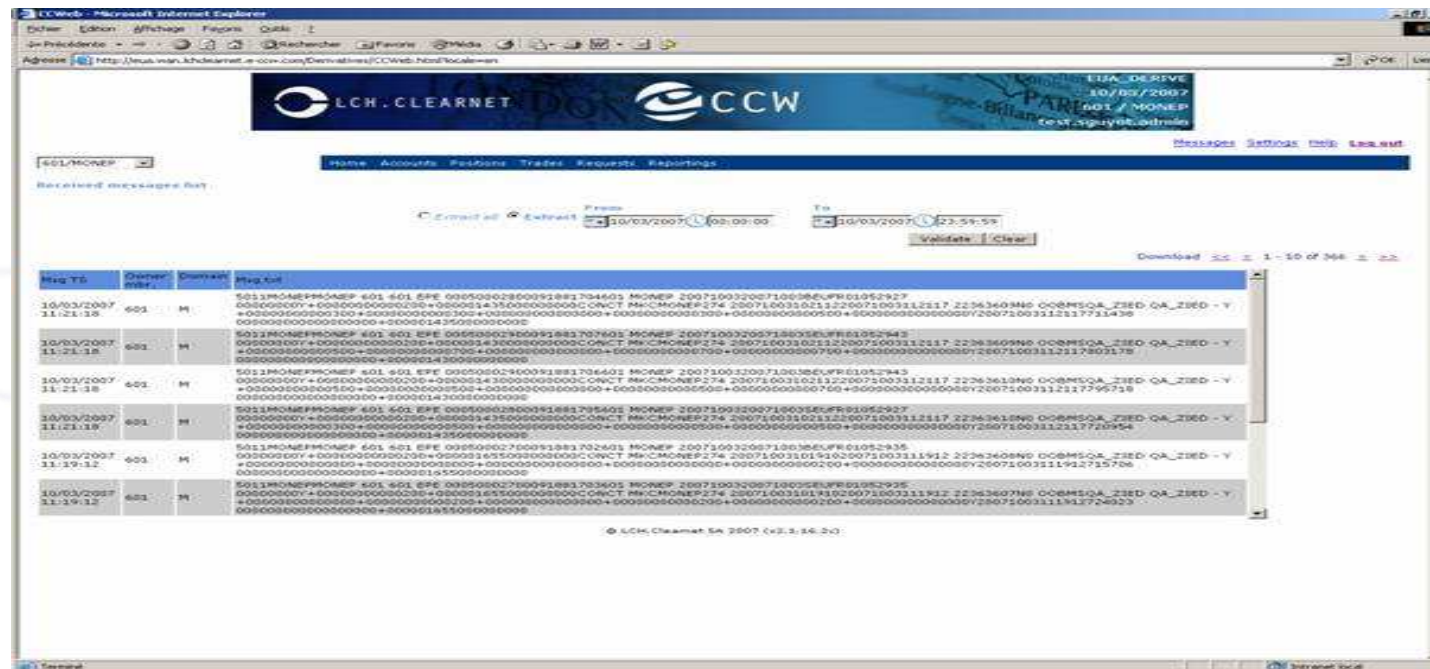
FTP transfer window - Private Files



Private files contains specific files for each member, regarding positions, margin calculation, settlement and buy-in information, treasury file, fees and OPEJ files

eCCW service preview

Messages received



Messages sent by CLEARING 21®

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Q & A