





A T H E N S EXCHANGE S.A.

Re-innovating

the ATHEX Derivatives Market

July 2013

Version 0.60



Restructuring the Derivatives Market

Because of the Regulation modifications due to EMIR & ESMA Having more Guidelines than 13 years of experience Derivatives

Taking into consideration the various participants' requests

Following the international trends by which exchanges are offering single platforms for all products

We proceed to the operational Reinovation / **Redesigning of** the ATHEX **Derivatives** model with New services-**Products &** common Infrastructure

in the

Market





Basic System Changes

Basic Changes on Trading

New Repo Market

Basic Changes on Risk, Clearing & Settlement





Common infrastructure



- A single and common trading platform for all traded products (shares, rights, bonds, warrants, futures, options, repo, etc).
 - The new trading platform will be based on the existing OASIS/ETS Trading System and ATHEX GW (ODL+FIX), which means the total abolishment of the current Derivatives Market trading system (OASIS/DTS) and OMNet API
- A single and common clearing & settlement system for all post trading procedures for all products
 - The new clearing system will be based on the existing clearing and settlement system that is currently used for the Cash Market (DSS – Dematerialized Securities System), which means the total abolishment of the current Derivatives Market clearing and settlement system (DCS)
- **Common Data Feed for all Markets** (Cash, Derivatives, Repo)
- The adaptation of the Bloomberg Global ID (BBGID), as an identifier for all products which does not change during the product lifetime
 - BBGID and Product Symbol (OASIS Symbol) will be the unique keys and not ISIN, as it in now

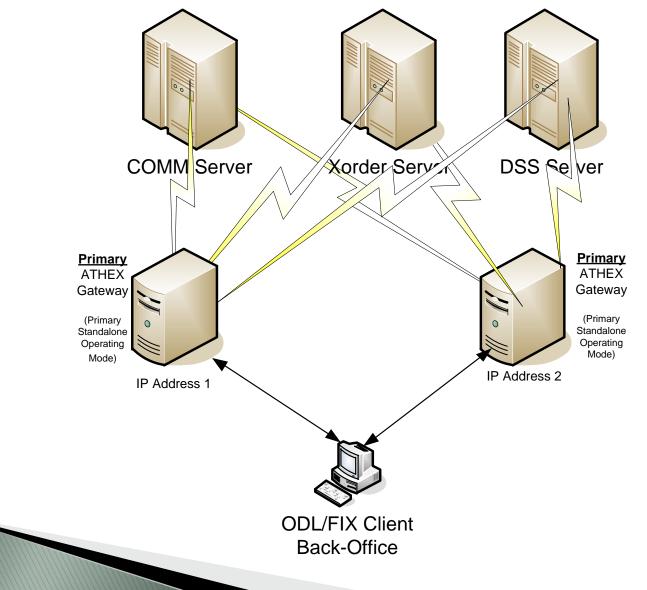
System changes at a glance



SYSTEMS	NOW	AFTER
Trading System for the Cash Market Trading System for the Derivatives and Repo Markets	OASIS / ETS (Equities Trading System) OASIS / DTS (Equities Trading System)	OASIS / ETS (Equities Trading System) <i>It will be named OASIS (v4.0)</i>
API for the Cash Market API for the Derivatives Market	 ODL (native API), or FIX 4.2 Both by using the ATHEX GW (v1.1) OMNet API 	 ODL (native API), or FIX 4.4 Both by using the ATHEX GW (v2.0)
Clearing / Settlement System for the Cash Market Clearing / Settlement System for the Derivatives Market	DSS (Dematerialized Securities System) DCS (Derivatives Clearing System)	DSS (Dematerialized Securities System)
Data Feed for the Cash Market Data Feed for the Cash Market	Cash Market Data Feed Spec Derivatives Market Data Feed Spec	Common Data Feed Spec

ATHEX GW connections





No data feed via ATHEX GW



- As it is known, ATHEX GW does not disseminate market data feed at the members' systems, as the OMNet API does
- In the new environment, a member can receive this feed either by a data vendor, or by a direct connection to the IOCP (ie, to become a data vendor), by using the existing connectivity to ATHEX:
 - Either for own use, or
 - For redistributing the feed to its clients





Basic changes on trading (1)

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Trading Limits for Derivatives Members and Users Market Introduction of daily price fluctuation Common Members' ID (Cash & **limits** in the Futures and Options which Derivatives Markets) contributes to: • The limitation of the market volatility Common Users' IDs • The participants' protection by preventing erroneous input • FUTURES: "±X%" on the yesterday's fixing price • OPTIONS: "±X%" on the theoretical price

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Basic changes on trading (2)



New Risk Management Model (during the trading session)

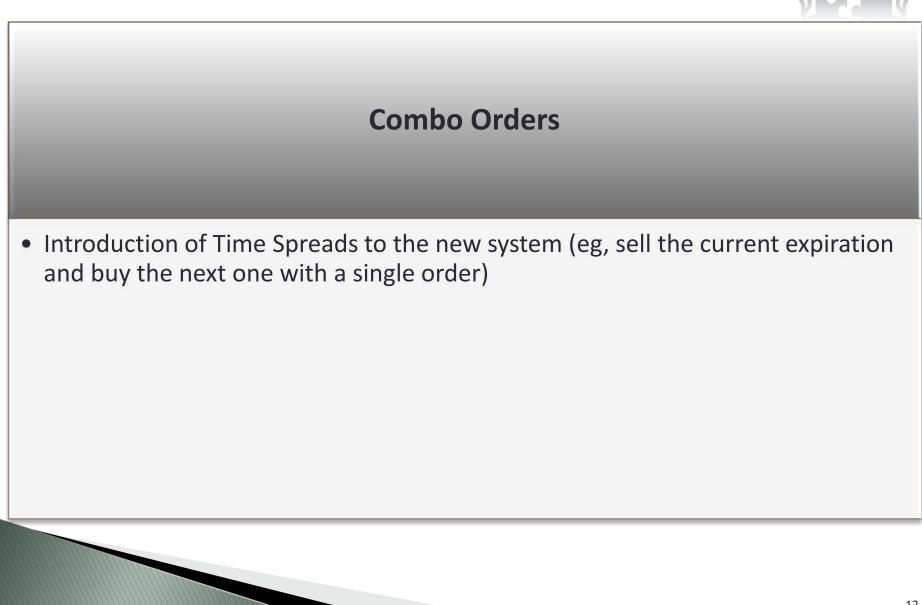
- Introduction of Credit Limits consumption also at the Derivatives Market
- Calculation of orders' & trades' risk for Futures, Options and Repo products
- FUTURES: No of contracts*Contract size*Price*ε
- OPTIONS: No of contracts*Contract size*ε*Underlying price

Market Making

- Improvements in the Market Making Model
 - Market making only through API
 - Enrichment using automated procedures (ie, no obligations when the underlying is in a pre-call phase)

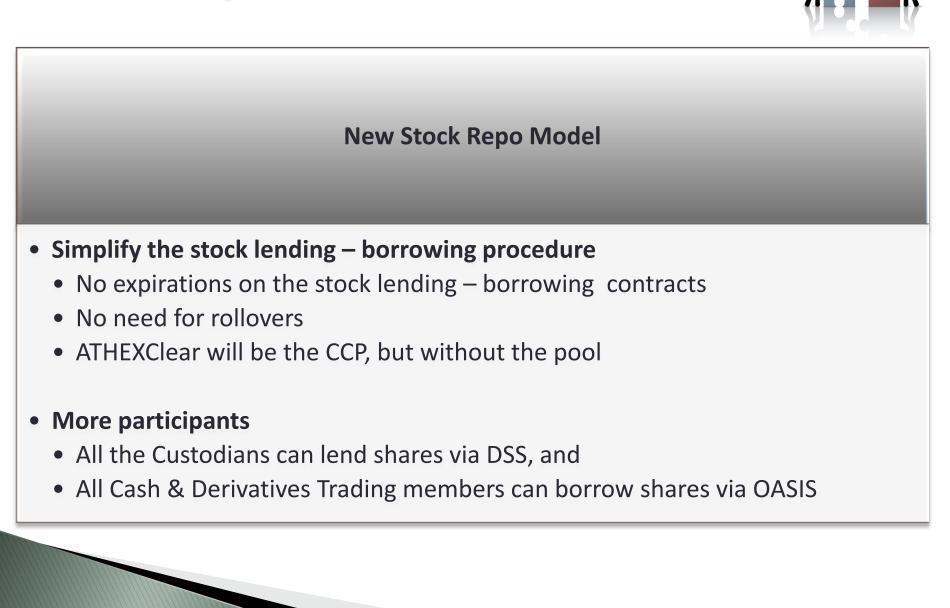
Basic changes on trading (3)

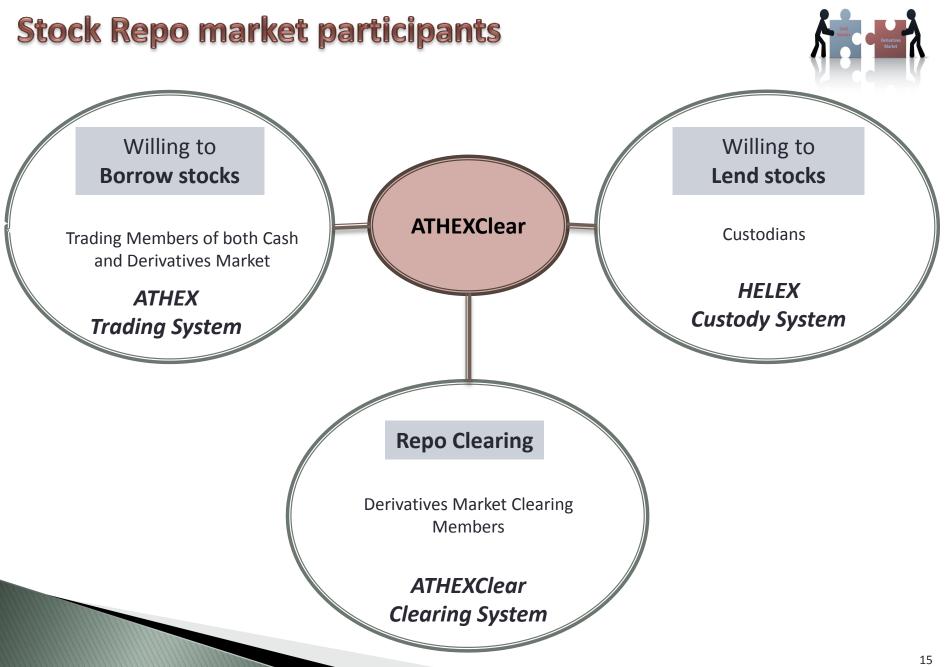
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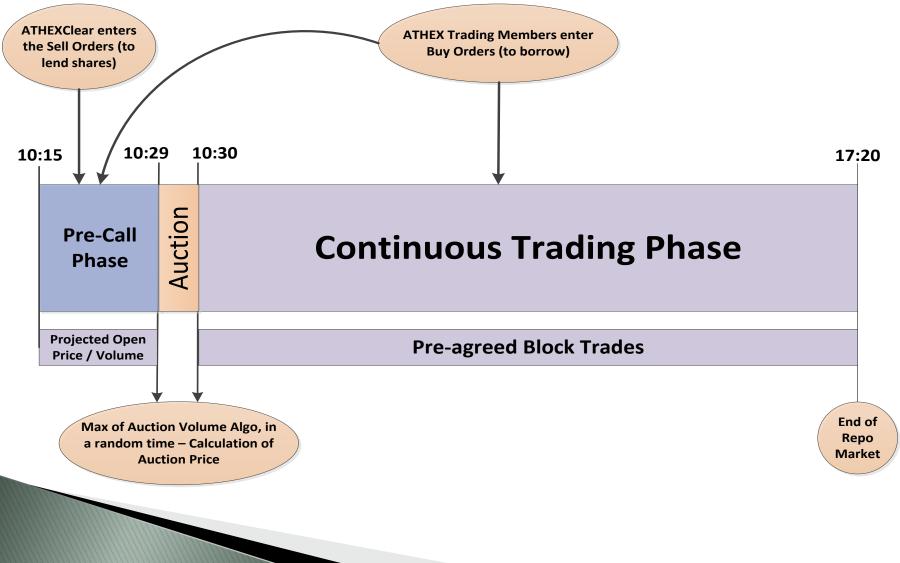






Basic changes on trading









Basic changes on risk, clearing & settlement

Members & Users

- **Common Members IDs** for both Cash and Derivatives Markets
- Common Users IDs
 - New Clearing users' IDs
 - Common Clearing user ID for both Cash and Derivatives
 - New standardized roles for users' access

Position Handling

(New structure of codes/accounts)

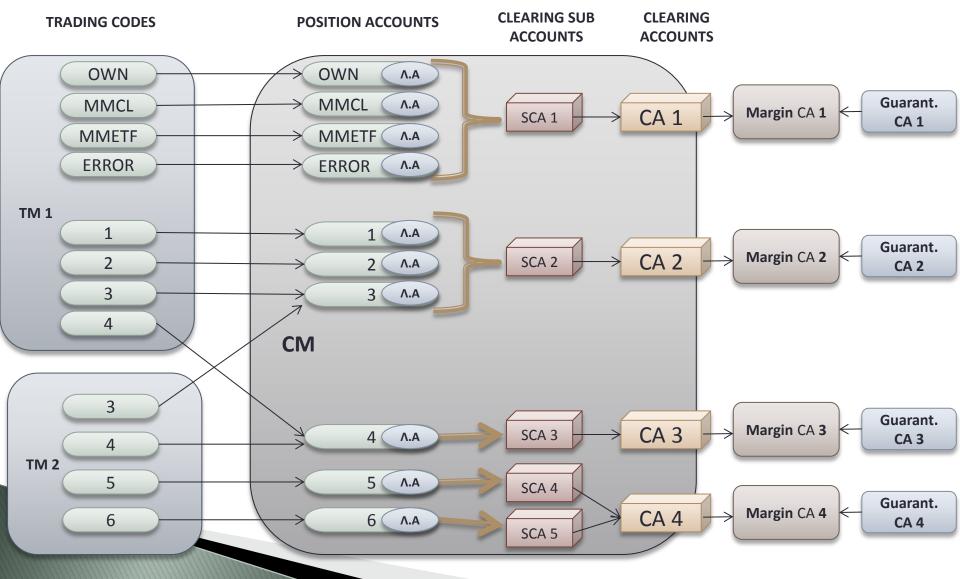
- **Trading Account**: Defined by the Trading Member and entered at the entry of an order
- **Position Account:** Defined by the Clearing Member and is used to manage end-client position
- Clearing Accounts & Subaccounts: Defined & operated by the Clearing Member.

*Risk of Clearing Account (and required margin) comes from the total position of all clearing sub-accounts that are related to this.



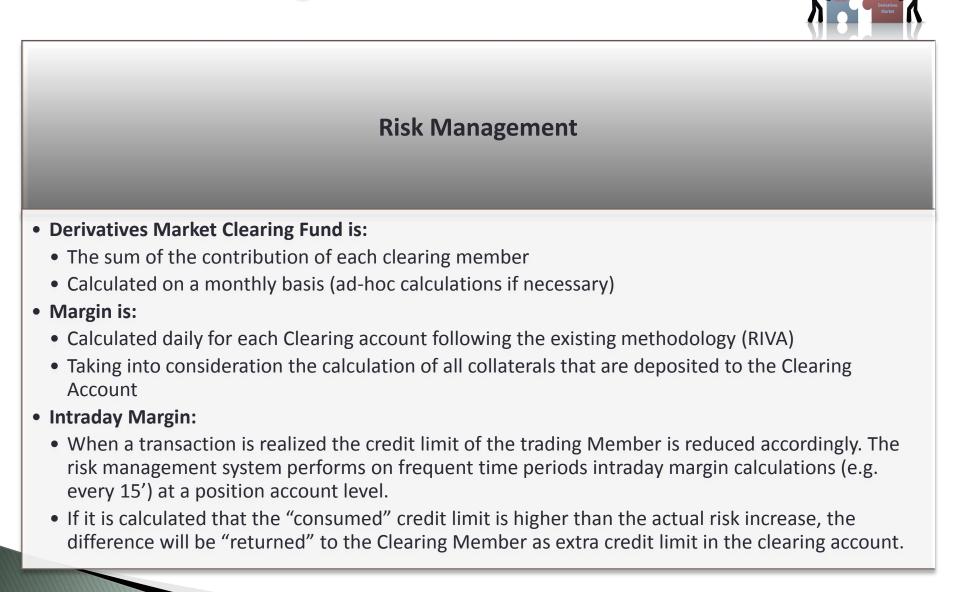
Clearing and position management





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New risk management model





Trades Handling

- Trades Uploading from the trading system (OASIS) to the Clearing System
- Shaping procedure:
 - on behalf of Trading Member till a specific time during the trading day
 - on behalf of Clearing Members till a specific time during the trading day
- Give-up procedure
- **Trades finalization:** is realized by the end of the period where cancellation and shaping procedures are allowed. After this, Clearing Members' obligations and credit limits are calculated.
- Physical Delivery Give-up



You can find all the related presentations, documents and software at the <u>www.athex.gr/oasis</u> website and more specifically at the section:

RE-INNOVATING OF ATHEX DERIVATIVES MARKET

Questions



