

Guidelines on systems and controls in an automated trading environment for trading platforms, investment firms and competent authorities

Verdipapirseminar juni 2012

FINANSTILSYNET THE FINANCIAL SUPERVISORY AUTHORITY OF NORWAY

1. Bakgrunn

- 2. Krav til RM/MTFer og verdipapirforetak
- 3. Oppsummering





"the purpose of these guidelines is to ensure **common**, **uniform and consistent application of MiFID and MAD** as they apply to the systems and controls of

-- trading platforms and investment firms in an automated trading environment; and

-- trading platforms and investment firms in relation to the provision of DMA or SA"

Systems and Control



- "...utledes av verdipapirhandelloven og børsloven med tilhørende forskrifter §§ 3-11, 9-11, 11-1 og 11-2 og børsloven §§ 13, 26 og 27."
- Tredde i kraft 1. mai 2012 i Norge



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Hvorfor?

- MiFID ikke presis nok?
- Økt algoritmehandel og fokus på HFT
- DMA
- Flash crash
- Finanskrisen

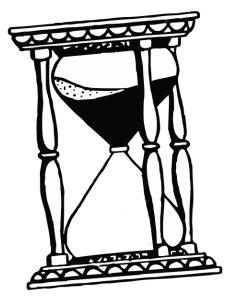


When it rains, it pours

"In 2003, a US trading firm went bust in 17 seconds after an employee accidentally turned on a trading algorithm..."

"It took the firm 47 minutes to realise it was bankrupt."

Kilde: London Evening Standard



Unlike

"Facebook was scheduled to go public at 11:00 a.m. ET on Friday, but it hit the market some 30 minutes later, with some traders experiencing problems with order cancellations or completely losing access to the trading platform."



Kilde: Mashable

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Guideline struktur



RM & MTF

#1 Electronic Trading Systems
#3 Fair and orderly trading
#5 Market abuse
#7 DMA/SA

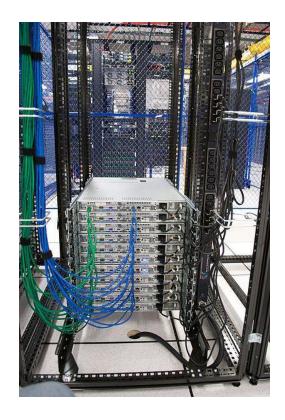
Investment Firms

#2 Electronic Trading Systems#4 Fair and orderly trading#6 Market abuse#8 DMA/SA

RM/MTF: Guideline 1



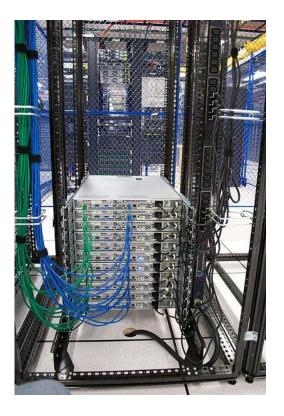
- "Organisational requirement for [...] electronic trading systems"
 - Governance
 - Capacity and resilience
 - Testing
 - Monitoring and review
 - Security
 - Staffing
 - Record keeping and cooperation



Investment firms: Guideline 2

- "Organisational requirement for [...] electronic trading systems"
 - Requires "clearly delineated development and testing methodologies"
 - Test prior to deploying an electronic trading system or algorithm
 - Performance, back-testing, MiFID
 - Roll out should be "controlled and cautious"
 - Testing during operations if market conditions change

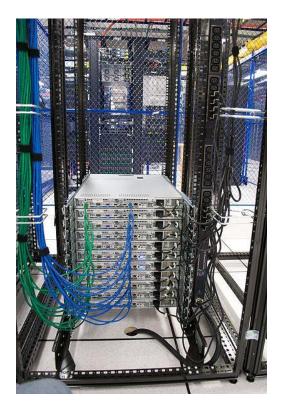




Investment firms: Guideline 2 (cont')

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- Monitoring in real time
 - electronic trading system
 - and algorithms
- Staffing
 - Sufficient number of staff, with necessary skill
 - Knowledgeable about the electronic trading system and algorithms
- Record keeping and cooperation



RM/MTF: Guideline 3

- "Organisational requirement ... to promote fair and orderly trading..."
 - Due diligence of non-EU investment firms
 - IT compatibility
 - Pre- and posttrade controls
 - Trader access and knowledge
 - Measures to cope with excessive flooding
 - Measures to constraint or halt trading (CB)
 - Obtaining info from members
 - Record keeping and co-operation





Investment firms: Guideline 4

- "Organisational requirement ... to promote fair and orderly trading..."
 - Be able to block or cancel orders due to price, size, access or risk
 - Training on order entry procedures
 - Close scrutiny by compliance staff





RM/MTF: Guideline 5



- "Organisational requirement ... to prevent market abuse..."
 - Examples: Quote Stuffing, Momentum ignition, Layering and spoofing
 - Staffing
 - Monitoring
 - Identification and reporting of suspicious trades
 - Reveiw
 - Record keeping



Investment firms: Guideline 6

- "Organisational requirement ... to prevent market abuse..."
 - Understanding, skill and authority of compliance staff
 - Training in market abuse
 - Initial and regular refreshing.
 - Monitoring activity
 - Monitor all order and transaction activity (firm and clients)
 - "...having adequate systems in place (including automated alert systems)"



RM/MTF: Guideline 7

- "Organisational requirement ... whose members provide direct market access
 - Ultimate responsibility
 - Adequate systems to handle DMA
 - Due diligence prior to provision of DMA
 - Record keeping of policies and procedures relating to DMA/SA
 - MTF: Keep records for minimum 5 years
 - RM: Kept at least as long as home CA requires



Investment firms: Guideline 8

- "Organisational requirement ... whose members provide direct market access
 - Due diligence on direct market access
 - Appropriate to the risks posed by the client
 - Clarity about right and obligations
 - Pre-trade controls
 - No naked/unfiltered market access
 - Monitoring activity to the same extent as own trading.





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Oppsummering



- En lang liste med detaljerte krav
 - Mye er selvinnlysende
 - Mye er på plass i dag
- Mulige problemområder
 - Record keeping, training, reviews, auditing
 - Monitoring

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