Nomad
(Mobile Agent System for Internet Based Auction House)

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eMediator
- A next generation Electronic Commerce server
- eAuctionHouse
- Leveled commitment contract optimizer
- eExchangeHouse

eAuctionHouse(1)

Log on
- Combinatorial auctions
- OR-bids, XOR-bids
- Bidding via price-quantity graphs
- continuous preference
- support for choosing auction type
  - single, double,multiple....
- NOMAD
  - mobile agents as auction participants
Nomad Mobile Auction Agent

Auction List

Auction Specification

Bid or Agent?

Bid(1)

Bid(2)

NOMAD(1)

- Mobile agent system for electronic auctions
- Reduction of network traffic
- Speed up
  - network problem
  - computationally intensive bidding
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NOMAD(2)

Connection Manager
Auction engine
Auction Database
Agent Database
Agent Manager
Agents clock
Agents dock
Agents generator

Request for bids
Request for auto-generated agent
Create user programmed agent

Create user
Request for bids
Request for auto-generated agent
Create user programmed agent

Web system
Web system

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NOMAD(3)

- Information agent
- Incrementor agent
- N-agent
- Control agent
- Discover agent
- Coalition agent (future works)

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Create Agent

User portfolio

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Let me know what happens.

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Conclusion

- Bidding 기법에 관한 연구 필요
- 여러 auction platform간에 API 통일 문제
- 다른 에이전트와의 통신 문제