

# BoF-PSS2 Development Questionnaire August 2008



Bank of Finland  
PAYMENT AND SETTLEMENT SYSTEM SIMULATOR

## Assessment of current offering

Scale: 1 – 5 poor - excellent

|  | #  | Average<br>2008 | #   | Average<br>2007 |
|--|----|-----------------|-----|-----------------|
| Support of relevant analysis methods           | 10 | 3,8             | --- | ---             |
| Supported payment and settlement functions     | 10 | 4,2             | 12  | 4,3             |
| Algorithm repertoire                           | 10 | 3,9             | 12  | 4,3             |
| Selection of calculated statistical indicators | 11 | 3,7             | 11  | 4,0             |

Comments: more detailed examples of command line interface, more on hybrid systems, measure daily maximum overdrafts, further delay indicators



Bank of Finland  
PAYMENT AND SETTLEMENT SYSTEM SIMULATOR

## User interfaces and data management

Scale: 1 – 5 poor - excellent

|  | #  | Average 2008 | #   | Average 2007 |
|--|----|--------------|-----|--------------|
| Simulation definition and execution facilities                   | 11 | 3,9          | 12  | 3,8          |
| Command line interface (script language) of BoF-PSS2             | 7  | 3,9          | --- | ---          |
| Possibility to integrate simulator database to third party tools | 8  | 3,8          | 6   | 4,2          |
| Ready-made output reports  | 11 | 3,7          | 12  | 4,0          |
| General usability of the simulator                               | 11 | 4,1          | 12  | 4,3          |



## User interfaces and data management

Comments:

- Data type (eg length of participant ID and participant name data) should be adjustable/expandable. Longer simulation names for ease of use.
- Easier navigation through simulations (eg simulation wizard).
- Show examples how to create the batchfile.
- Ability to link to other programs, eg Mathematica, Matlab etc.
- More report explanations.



## Documentation

Scale: 1 – 5 poor - excellent

|   | #  | Average 2008 | #  | Average 2007 |
|---|----|--------------|----|--------------|
| User manual   | 11 | 3,7          | 12 | 4,1          |
| Examples and tutorials  | 10 | 4,0          | 10 | 3,9          |
| Technical documentation<br>(Database description, version history, known bugs list) | 10 | 3,9          | 10 | 4,0          |
| User module development guide   | 10 | 4,0          | 7  | 3,9          |

Comments: more examples are desirable, more extensive descriptions of important classes, eg ParticipantData and TransactionQueue classes



## Overall assessment of current offering

Scale: 1 – 5 poor - excellent

|  | #  | Average 2008 | #   | Average 2007 |
|--|----|--------------|-----|--------------|
| Overall services and user support              | 11 | 4,2          | --- | ---          |
| Overall suitability of Bof-PSS2 for your needs | 11 | 4,1          | 12  | 4,2          |



## Importance of specific development proposals

Scale: 1 – 5 nice to have – very important

| System features and settlement algorithms   | #  | Average 2008 |
|---|----|--------------|
| Liquidity reservations according to transaction priority (TARGET2 feature, three priority classes)    | 10 | 3,0          |
| Stochastic input data generation based on network topology  | 9  | 2,8          |
| Identification of overnight loan transactions from payment data (Algorithm presented in Furfine 1999) | 9  | 2,7          |
| Settlement algorithms of TARGET2  | 10 | 2,9          |
| Algorithms for securities settlement system with interface in RTGS system                             | 9  | 3,2          |



## Importance of specific development proposals

Scale: 1 – 5 nice to have – very important

| Software structure and user interfaces   | #  | Average 2008 |
|--|----|--------------|
| Compatibility of BoF-PSS2 with parallel computing methods  | 9  | 2,1          |
| Linux version of the simulator   | 9  | 1,6          |
| Possibility to record macros (script sequences for command interface)  | 9  | 3,2          |
| User interface for automated generation and execution of large number of simulations based on specified parameters (eg stress testing scenarios with different failing participant, failure time or duration of failure) | 10 | 4,3          |
| Wizard tool or interactive tutorial: how to model a given setup in BoF-PSS2  | 10 | 3,4          |



## Interest in supporting services

Scale: 1 – 5 not interested – very interested

|   | #  | Average<br>2008 |
|---|----|-----------------|
| <b>Help Desk</b><br>support in technical issues and use of BoF-PSS2 with a defined service scope  | 11 | 3,0             |
| <b>Training</b><br>specific training courses in the use of the BoF-PSS2 simulator   | 11 | 3,8             |
| <b>Consulting</b><br>tailored consultation on BoF-PSS2 use on modelling of payment systems, technical issues etc.   | 11 | 3,4             |
| <b>Reports Library</b><br>new refined set of ready-made output reports for various purposes   | 11 | 3,1             |
| <b>Analysis</b><br>analyses of given payment or securities settlement system according to specifications by the ordering central bank but produced by BoF | 11 | 2,4             |

