भारतीय रिज़र्व बैंक
RESERVE BANK OF INDIA

RBI/2009-10/230
DIT (CO) Circular No. 5 /09.63.08/2009-10   November 23, 2009

To All RTGS Members

Dear Sir,

Up-gradation of RTGS System to Windows 2008

As you are aware that RTGS system is presently running on Windows 2000 advanced server with Oracle version 9i and IBM Websphere MQ series 5.3.

2.   It has been decided to upgrade RTGS system to the latest available software versions i.e. Microsoft Windows 2008 Enterprise Edition, Oracle 11g and IBM Websphere MQ series 7.0.

3.   In order to facilitate the upgradation, we enclose Hardware and Software specifications for Server and Client machines. It may be noted that hardware specifications mentioned are the minimum requirements. However, you may decide the size of the hardware based on your specific needs. As regards Hardware Security Module (HSM), we are in the process of finalizing the suitable products and will advise you shortly.

4.   You are requested to be in readiness with the required infrastructure at the earliest and confirm the same to us by email.

5.   Please acknowledge the receipt of this circular by return email.

Yours faithfully,

(M.K.Mall)
General Manager

**RTGS –Migration to Microsoft Windows 2008 environment-
Hardware and Software Specifications for server and client machines-
Minimum requirement**

    1. **PI Server**

Item	Specifications
Hardware:	The size of the Server Machine to be decided by respective participants based on their transaction volumes and other applications running on the same machine etc. It is suggested to install 2 no. of Standalone Servers at Primary Site (1 Primary Server+ 1 Back up server) with Oracle data guard enabled for online replication of data . **Note: Cluster is NOT required**
Processor :	Latest available Dual Core, 2 Processors
Memory	16 GB RAM
Hard Disk	2* 250 GB
PCI Express Slots	One PCI –E (Express) Slot for installing HSM card
DVD Rom Drive	DVD ROM
Hard Disk Partitions	2 equal partitions
Name of the partitions	C: - All program Files and System Files D: - Oracle , PI Server Software
Anti Virus	Anti Virus with latest definitions being regularly updated
Operating System (Windows)	Microsoft Windows 2008 Server Enterprise Edition , 64 bit with Service Pack 1
Message Middleware (IBM MQ)	IBM Websphere MQ 7.0, 64 bit with Fix Pack 1
Database (Oracle)	Oracle Enterprise Edition version 11.1.0.6.0 (Oracle Server 64 bit with 32 bit client)
JDK	JDK version 1.5
HSM Card	**DETAILS WILL BE COMMUNICATED SHORTLY**

2. RTGS-PI Client

Item	Specifications
Hardware:	The size of the Client Machine to be decided by respective participants based on their transaction volumes and other applications running on the same machine etc.
Processor Speed:	Latest available Core 2 Duo Processor
Memory RAM	4 GB RAM
Hard Disk	160GB / 250 GB
DVD Rom Drive	DVD ROM
Hard Disk Partitions	2 equal partitions
Name of the partitions	C: - All program Files and System Files D: - Oracle , PI Client Software
Anti Virus	Anti Virus with latest definitions being regularly updated
Operating System(Windows)	Microsoft Windows Vista Business Edition , 32 Bit , Version 6 with Service Pack 1
Database (Oracle)	11.1.0.6.0 Oracle Client, 32 bit
Microsoft Office	Microsoft Office Professional 2003 with Service Pack 3
Smart Card / I.Key	Safenet 's SCR 335 OR Safenet's 2032 I.key