

Certificate of Volatility Request

Please ask your technical support team to respond to our request for memory storage capacity (volatile and non-volatile with declassification procedures by _____ .(date)

The signature of respondent must be a technically knowledgeable individual from your company's engineering design or technical maintenance staff rather than a Boeing approved sales representative or third party representative.

Manufacturer: _____XEROX CORPORATION_____

Equipment Name:_____CopyCentre / WorkCentre__

Model:_____C20/M20/M20i_____

Configuration: This item is connected to

standalone _____X_____; networked _____X_____ with operating system Win2000, Win 2003, UNIX

General description: This device will be connected to the Boeing Network.

Purpose: Multifunctional device; Copy, Print, Scan, Fax

Type of memory:

Volatile memory: What is the amount? What period of time does the unit need to be powered off to completely erase this memory?

*C20/M20 SDRAM : 32Mbytes for buffers. scanning, printing ,copying.
M20/M20i: 32Mbytes buffers for Scan-To-Email .*

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Non-Volatile Memory:

1. **Type:** What type(s) of non-volatile memory are included, EPROM, EEPROM, Flash memory, NVRAM, and battery backed, etc.(fill in)

C20/M20/M20i :

Flash memory(NOR-gates type) : 4 Mbytes containing system firmware

SRAM(Battery backed): 128Kbytes containing system operation parameters.

DADF(EEPROM):512Kbytes for document handler firmware

M20i:

SDRAM(Battery-backed): 16 Mbytes fax buffer memory

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Options:

SCF(EEPROM): 256Kbytes for firmware

NIC(Flash memories, NOR-Gates type)

- *4Mbytes for NIC firmware*
- *4Mbytes for PCL fonts*
- *4Mbytes for Downloadable fonts.*

NIC(EEPROM) : for storing NIC parameters (IP, Gateway, Subnet mask etc.)

CRU(Toner cartridge): 512Bytes for managing the toner cartridge.

2. **Accessibility:** Is it accessible by accidental/intentional keystroke, or software malfunction?

Yes

3. If "YES, it **is** accessible,

- Describe location and purpose.

Flash memory on the main PBA contains system firmware

Flash memory on the NIC PBA for storing PCL fonts and downloadable fonts)

Battery-backed SRAM on the main PBA for storing maintenance data

Purpose: typical uses for non-volatile memory location are system identification number and system configuration, boot, and initialization parameters, for example (battery-backed NVRAM on SUNs); put in for future design needs, internal depot repair, clock circuit, "nice" to have, or to flag unauthorized software, etc.

If "NO", it is not accessible, _____ . (Check here).

4. *Required memory:* Is device needed for normal operation, i.e. required for this processing period?

Yes

5. *Removal consequences:* If device memory chip is erased, what impact will this have on operation and normal function of device?

Example: If the SUN is turned on without this means of checking for the authorized configuration, the system will not boot and therefore the data cannot be processed per the standard Practice Procedure (SPP).

Removal of device non-volatile memory will disable system. System data (time, date,

operating modes etc), are required for proper operation .

Certificate of Volatility, continued

6. *Method of access:* How is it accessed? Is non-volatile memory location theoretically accessible with any system code, not just via the operating system or low level booting firmware?

Remember: Modifying internal programming to access is not the same thing as unknowingly accessing from an accidental keyboard stroke.

Memory is accessed in maintenance mode, and is not accessible through accidental keystroke. However, systems settings may be set, reset, or cleared to default from the user interface.

7. *Warranty:* Does chip removal or EEPROM erasure void the warranty?

No

8. *Size:* How much memory is contained? Number of bytes, etc.

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SRAM(Battery backed): 128Kbytes for storing system operation parameters.

DADF(EEPROM):512Kbytes for document handler firmware

M20i:

SDRAM(Battery-backed): 16 Mbytes for storing fax data

Options:

SCF(EEPROM): 256Kbytes for firmware

NIC(Flash memories, NOR-Gates type)

- 4Mbytes for NIC firmware

- 4Mbytes for PCL fonts

- 4Mbytes for Downloadable fonts.

NIC(EEPROM) : for storing NIC parameters (IP, Gateway, Subnet mask etc)

CRU(Toner cartridge): 512Bytes for managing the toner cartridge.

9. *Spacing:* Is the memory fully utilized or does it have available memory space for additional information to be placed?

All memory devices are fully utilized.

