Statement of Volatility – Dell Vostro 14 5415

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

The Dell Vostro 14 5415 contains both volatile and non-volatile components. Volatile components lose their data immediately after power is removed from the component. Non-volatile components continue to retain their data even after power is removed from the component. The following Non-volatile components are present on the Vostro 14 5415 system board.

Table 1. List of Non-Volatile Components on System Board

Description	Reference Designator	Volatility Description	User Accessible for external data	Remedial Action (Action necessary to prevent loss of data)
SSD drive(s)	SSD1,SSD2	Non-Volatile magnetic media, various sizes in GB. SSD (solid state flash drive).	Yes	Low level format
System BIOS/EC	BIOS1 (16 MB)	Non-Volatile memory, 16 MB, System BIOS and Video BIOS for basic boot operation, PSA (on board diags), security and protection and SFH firmware.	No	NA
USB-Type C PD	U7201	Non Volatile memory for USB type-C PD F/W	No	NA
LCD Panel EEDID EEPROM	Part of panel assembly	Non-Volatile memory, Stores panel manufacturing information, display configuration data	No	NA
System Memory – DDR4 memory	Two DIMM on board DDR4 memory: DM1/DM2	Volatile memory in OFF state (see state definitions later in text) Four packages memories must be populated. System memory size will depend on the size of each piece memory and must be between 4GB and 32 GB.	Yes	Power off system
RTC CMOS	RTC1	Non-Volatile memory 256 bytes Stores CMOS information	No	NA
Embedded Flash in embedded controller NPCE386	U2401	164 KB of embedded Flash memory for keyboard controller BIOS code, asset tag and BIOS passwords	No	N/A
TPM Controller	U9101	Non Volatile memory, 220.8 Kbits (27.6K bytes) ROM	No	N/A
Touch screen Embedded Flash	N/A	Non-Volatile memory	No	N/A

CAUTION: All other components on the system board lose data if power is removed from the system. Primary power loss (unplugging the power cord and removing the battery) destroys all user data on the memory (DDR4, 3200 MHz). Secondary power loss (removing the on-board coin-cell battery) destroys system data on the system configuration and time-of-day information.

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