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Title: Unit Disassembly for WEEE			
Document Number / Disk File: 597-786-0313-00	By: Tim Connolly	Current Rev: 0A	Date: 6/17/2011
Assemblies Covered: N-2500 R4 (786-0313-XX)			



Revision	Date	ECO #	Revised By	Description of Changes
0A	June 17, 2011	P1476	T.Connolly	Initial Release

Tools Required:

- #2 Phillips Screwdriver
- #1 Phillips Screwdriver
- Needle nose Pliers

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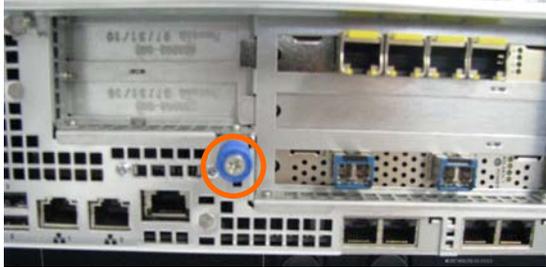
NOTE : Ensure any power sources connected to the system are shut off or disconnected. Then disconnect any AC or DC Power Cords attached to the power supplies before disassembly of the unit.

1.	<p>Removal of the access covers requires a #2 Philips screwdriver.</p> <ol style="list-style-type: none"> a. Remove the two (2) cover screws. b. Press the front release button and slide the front cover towards the front of the chassis about an inch. c. Remove front access cover by lifting it up. d. Press the rear release button and slide the rear cover towards the rear of the chassis about an inch. e. Remove rear access cover by lifting it up. f. Remove any labels from the chassis and access cover. g. Discard Sheet Metal Covers, Cover Screws, and Labels in the appropriate Recycling Bin. 	
1.		

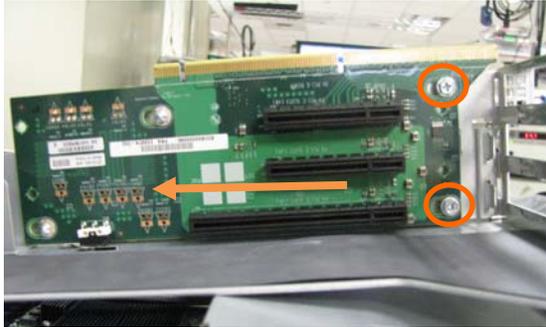
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1.	 
2.	<p>Removal of the bezel requires a #2 screwdriver.</p> <ol style="list-style-type: none"> a. Loosen the one (1) screw securing the bezel to the chassis. Pull off the bezel by pulling the screw side straight away from the chassis. b. Discard Bezel in the appropriate Recycling Bin. 
3.	<p>Removal of the Power Supplies does not require any tools.</p> <ol style="list-style-type: none"> a. Press and hold the green button towards the bottom of the unit. b. Pull the supply straight out of the rear of the chassis. c. Discard the Power Supplies in the appropriate Recycling Bin. 

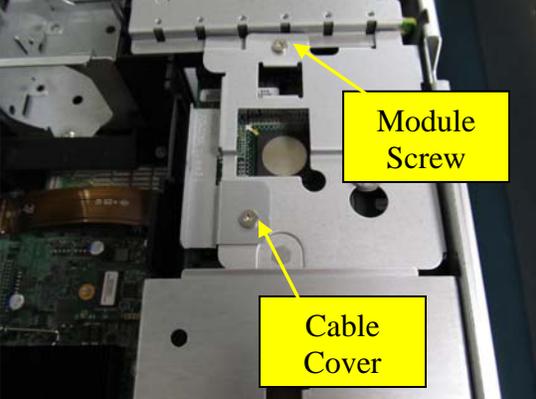
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4.	<p>Removal of the Hard Drives requires a #2 Phillips screwdriver.</p> <ol style="list-style-type: none"> a. Press the green button to extend the drive carrier latch. b. Pull the drive straight out of the front of the chassis. c. Unscrew the four (4) screws holding the drive to the carrier. d. Repeat for all installed drives. e. Discard the hard drives, drive carriers, and screws in the appropriate Recycling Bin. 	
4.		
5.	<p>Removal of the PCI riser assembly requires a #2 Phillips screw driver.</p> <ol style="list-style-type: none"> a. Loosen the PCI riser retaining screw on the rear of the chassis. b. Lift the assembly straight up and out of the chassis. 	
6.	<p>Removal of the PCI card(s) (if installed) requires a #2 Phillips screw driver.</p> <ol style="list-style-type: none"> a. Remove the PCI riser card from the bracket by removing the one (1) screw and pulling the card straight away from the riser. b. If installed, disconnect any additional power cables connected to the PCI cards. c. Repeat for any additional installed cards 	

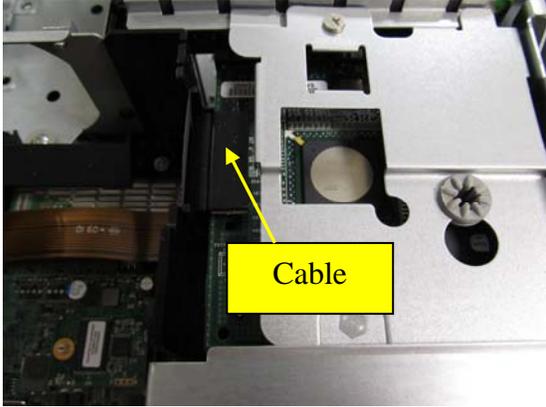
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	<p>d. Discard the PCI card(s) and screws in the appropriate Recycling Bin.</p>	
7.	<p>Removal of the PCI riser requires a #2 Philips screwdriver.</p> <ol style="list-style-type: none"> a. Remove the two (2) screws securing the riser to the assembly. b. Slide the riser away from the screw holes. c. Pull the riser straight away from the assembly to complete removal. d. Discard the riser, riser assembly, and screws in the appropriate Recycling Bin. 	
8.	<p>Removal of the Remote Management Module (if present) requires a #2 Phillips screwdriver.</p> <ol style="list-style-type: none"> a. Remove the two (2) screws securing the module to the rear of the chassis. b. Disconnect the module cable from the motherboard, and lift the module out of the chassis. 	

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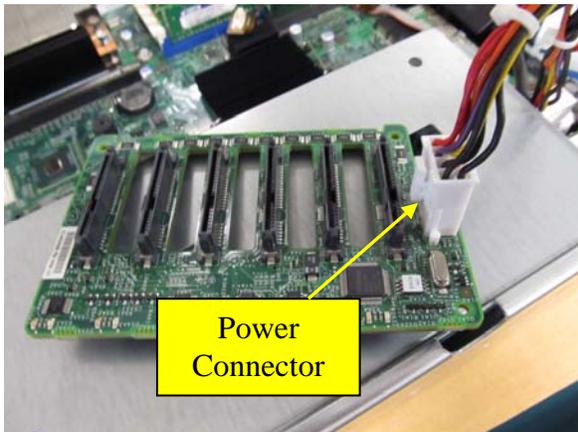
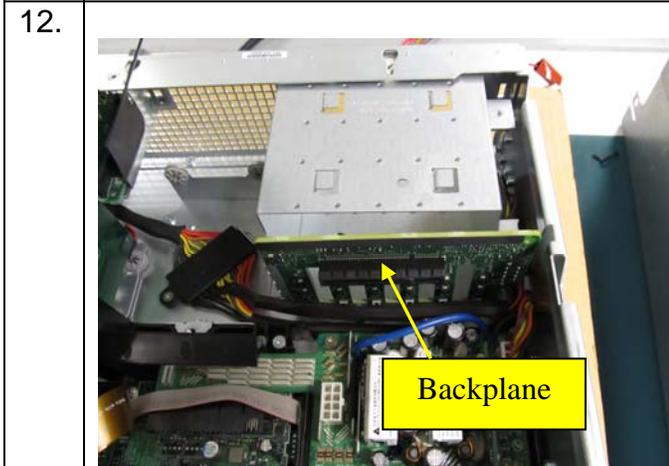
8.	<ul style="list-style-type: none"> c. Remove the cable connected to the module. d. Remove the three (3) screws securing the module bracket to the module. e. Discard the Remote Management Module, cable, bracket, and screws in the appropriate Recycling Bin. 	
9.	<p>Removal of the Air Duct does not require any tools.</p> <ul style="list-style-type: none"> a. Remove the Air Duct by lifting it straight up and out of the chassis. b. Discard the Air Duct in the appropriate Recycling Bin. 	
10.	<p>Removal of the SAS/SATA Module requires a #2 Philips screwdriver.</p> <ul style="list-style-type: none"> a. Remove the screw securing the cable cover. Pull the cover towards the middle of the chassis, and lift off. b. Remove the cable from the module. c. Remove the module screw. Pull the module towards the rear of the unit until it disengages from the back plane, then lift up and out of the chassis. d. Remove the screw holding the module to its bracket, and lift off. e. Discard the cable cover, SAS/SATA module, module bracket, and screws in the appropriate Recycling Bin. 	

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10.		
10.	<p>*(Add procedure for RAID battery removal when returned from UL)</p>	
11.	<p>Removal of the Power Distribution Board cover requires a #2 Philips screwdriver.</p> <ol style="list-style-type: none"> a. Loosen the two (2) screws securing the cover to the chassis. b. Lift the cover out of the chassis. c. Discard the Power Distribution Board cover in the appropriate Recycling Bin. 	

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12. Removal of the Backplane requires a #2 Philips screwdriver.
- a. Remove the one (1) screw securing the backplane cover to the chassis.
 - b. Lift up to remove the cover.
 - c. Lift the backplane straight out of the chassis.
 - d. Disconnect the power cable from the board.
 - e. Discard the Backplane, backplane cover, and screws in the appropriate Recycling Bin.**



13. Removal of the Power Distribution Board requires a #2 Philips screwdriver.
- a. Remove any cables connected to the board.
 - b. Remove the two (2) screws securing the board to the chassis.
 - c. Pull the Power Distribution Board straight up to remove.
 - d. Discard the Power Distribution Board and screws in the appropriate Recycling Bin.**



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13.	<p>Removal of the Fans does not require any tools.</p> <ol style="list-style-type: none"> a. Carefully pick up each fan assembly using the green handle and remove from the chassis. b. Discard the Fans in the appropriate Recycling Bin 	
14.	<p>Removal of the PCI Fan tray requires a #2 Philips screwdriver.</p> <ol style="list-style-type: none"> a. Disconnect the fan power cable from the front panel board. b. Remove the one (1) screw securing the fan tray to the chassis. c. Lift the tray up and out of the chassis. d. Discard the PCI Fan Tray and screw in the appropriate Recycling Bin. 	
15.	<p>Removal of the SD Flash Module requires a #2 Philips screwdriver.</p> <ol style="list-style-type: none"> a. *(Add procedure when unit returned from UL). b. . c. . d. Discard the Active Mid-Plane and screw in the appropriate Recycling Bin. 	

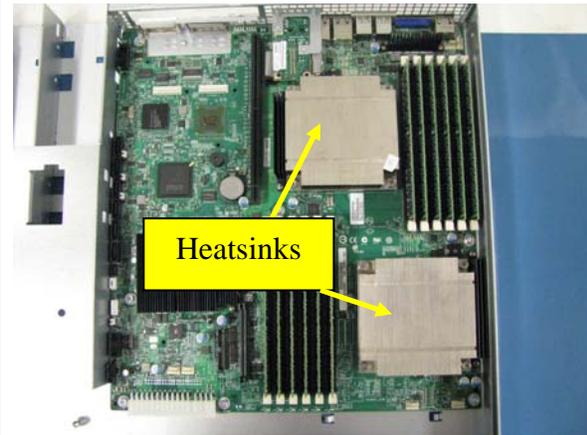
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0ADate:
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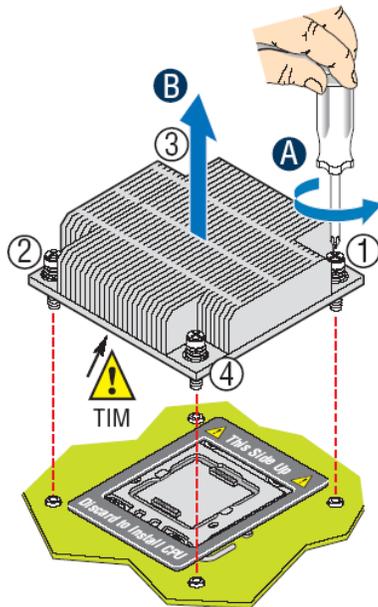
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16. Removal of the CPU Heatsink(s) requires a #2 Philips screwdriver.
- Start loosening the four (4) screws of each heatsink two turns at a time in the order shown in the picture below.
 - Once all screws are fully out, lift the heatsinks out of the chassis.
 - Discard the Heatsink(s) in the appropriate Recycling Bin.**



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17. Removal of the CPU(s) does not require any tools.
- Push the latch down and then away from the CPU socket.
 - Open the load plate, and carefully remove the CPU from its socket.
 - Discard the CPU(s) in the appropriate Recycling Bin.**



18. Removal of the Memory DIMMs and Lithium Battery from the motherboard does not require any tools.
- Remove each of the Memory DIMMs by pushing down and out on the two latches, one on each end of the DIMM connector. Lift memory DIMM straight out to remove.
 - Remove the coin style Lithium Battery.
 - Discard the Memory DIMMs and Lithium Battery in the appropriate Recycling Bin.**
- *** CAUTION *****
- Care should be observed when disposing of the battery to avoid shorting it!**



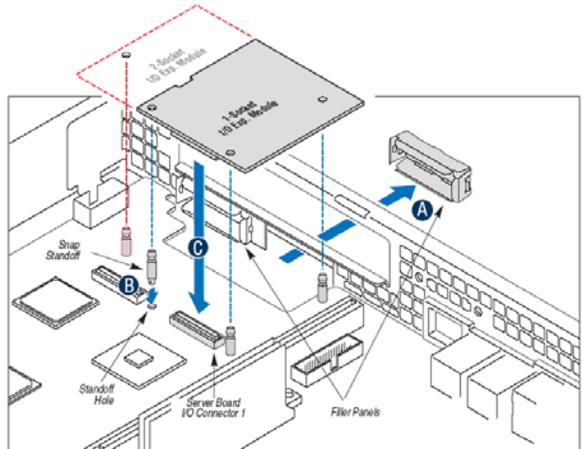
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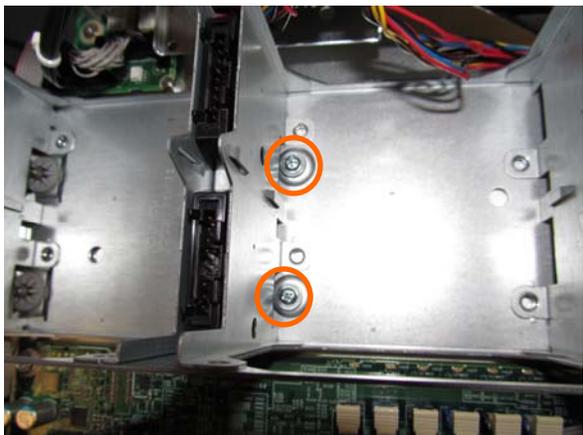
19. Removal of the PCI riser guide requires a #2 Philips screwdriver.
- a. Remove the two (2) screws securing the guide to the chassis, and lift it straight out.
 - b. Discard the PCI Riser Guide and screws in the appropriate Recycling Bin.**



20. Removal of the IO Expansion Module (if present) does not require any tools.
- a. Pull the module straight up to disengage from the standoffs and motherboard connectors.
 - b. Pull the standoffs straight up and out of the motherboard
 - c. Discard the IO Expansion Module and standoffs in the appropriate Recycling Bin.**

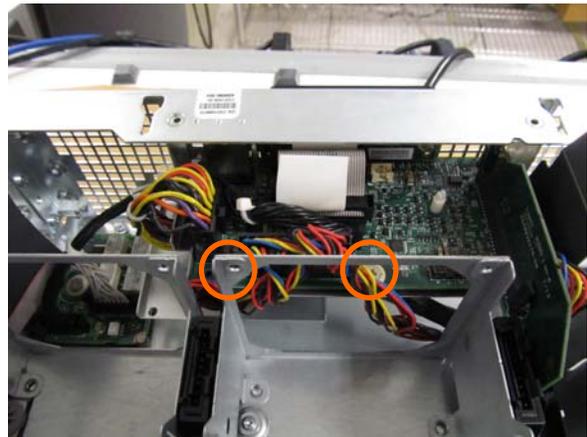


21. Removal of the Chassis Fan tray requires a #2 Philips screwdriver.
- a. Disconnect the fan power cable from the front panel.
 - b. Remove the two (2) screws securing the fan tray to the chassis. Pull the fan tray straight up and out of the chassis.
 - c. Discard the Chassis Fan Tray and screws in the appropriate Recycling Bin.**



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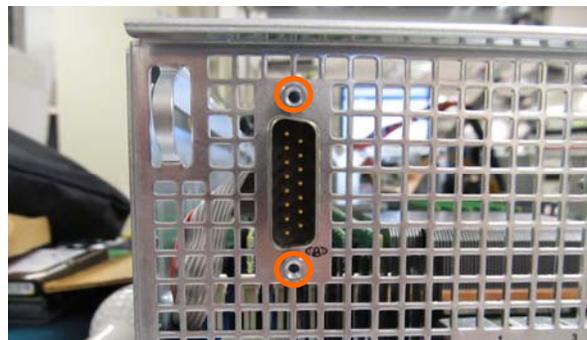
22. Removal of the Front Panel Board requires a #2 Philips screwdriver.
- a. Disconnect any cables still plugged into the front panel board.
 - b. Remove the two (2) screws securing the front panel board to the chassis. Pull the board straight up and out of the chassis.
 - c. **Discard the Front Panel Board, cables, and screws in the appropriate Recycling Bin.**



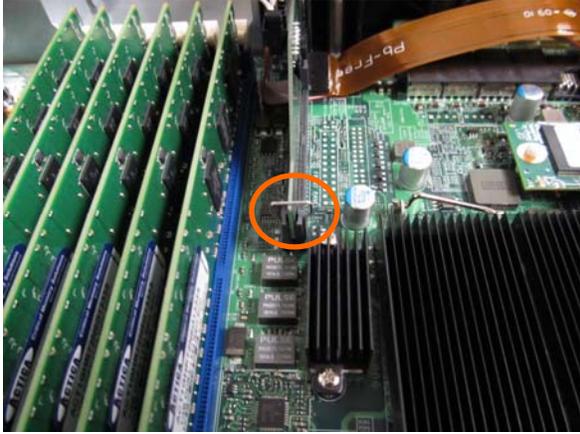
23. Removal of the Telco Alarm Board requires a #2 Philips screwdriver and needle nose pliers.
- a. Disconnect any cables still plugged into the telco alarm board.
 - b. Remove the one (1) screw securing the board to the chassis. Pull the board straight up and out of the chassis.
 - c. Using the pliers, remove the two screws holding the telco alarm relay to the rear of the chassis. Pull the interface off the rear of the chassis.
 - d. **Discard the Telco Alarm Board, Telco Alarm relay, cable, and screws in the appropriate Recycling Bin.**



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<p>24. Removal Bridge Board does not require any tools.</p> <ol style="list-style-type: none"> a. Disengage the clips on both ends of the bridge board. b. Lift the bridge board up and out of the chassis. c. Discard the Bridge Board in the appropriate Recycling Bin. 	
<p>25. Removal of the motherboard requires a Phillips #2 screwdriver.</p> <ol style="list-style-type: none"> a. Remove any remaining cables connected to the motherboard. b. Unscrew all nine (9) screws on the motherboard. c. Lift motherboard straight out of server. d. Discard the Motherboard, cables, and screws in the appropriate Recycling Bin. 	
<p>26. Removal of the hard drive cage requires a Phillips #2 screwdriver.</p> <ol style="list-style-type: none"> a. Remove the four (4) screws securing the cage to the chassis. b. Lift the cage straight out of the chassis. c. Discard the Hard Drive Cage and screws in the appropriate Recycling Bin. 	

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DISCARD THE FULLY DISASSEMBLED UNIT IN THE APPROPRIATE RECYCLE BIN.

Recycling/Material Code	Important Information
Material /Components, which must be removed and treated separately	
Lithium Battery	Battery free of hazardous substances, installed in socket on the motherboard
Lithium Ion RAID Battery Backup	Battery is RoHS 5/6, installed under the RAID module
Printed circuit boards	Motherboard, DIMMs, PCI card, PCI riser, Power Supply, SAS/SATA Module, Backplane, Power Distribution Board, IO Expansion Module, Remote Management Module, Bridge Board, Telco Alarm Board,

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	SD Flash Module, & Front Panel Board
Disk Drives	Mounted on disk carrier
Material /Components, which can disturb certain recycling processes	
Copper	Fansink
Material /Components, through which benefits can normally be achieved	
Cold Rolled Steel	Front cover, Rear cover, PCI bracket, Bezel, & chassis
* ABS	Front Panel Bezel, Cable Guide, Power Distribution Board Cover, Fan Assembly, PCI Riser guide, & Air Baffle
Cables	Distributed in device & power cord
Fans	Fan Assembly
Special notes	
* Flame retardant of plastics does not contain PBB and PBDE.	

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Annex A

Producer:	<company name, other on addressing the producer>
Scope of information sheet:	< product category as in Annex IA of WEEE Directive, or type of equipment as in Annex 1B of WEEE Directive, or producer's Product Family, or single products identified by brand and model name >

Component or Material	Remarks / Location
Battery (internal *) containing Mercury (Hg)/ NiCad/Lithium/ Other	Lithium battery ↓ located on the motherboard
Backlighting lamps of LCD/TFT or similar screens containing Mercury (Hg)	NONE
Mercury (Hg) in other applications**	NONE
Cadmium**	NONE
Gas discharge lamps	NONE
Plastic containing brominated flame retardants other than in Printed Circuit Assemblies ***	NONE
Liquid Crystal Displays with a surface greater than 100 cm ²	NONE
Capacitors with PCB's	NONE
Capacitors with substances of concern**** + height > 25 mm, diameter > 25 mm or proportionately similar volume	NONE
Asbestos	NONE
Refractory ceramic fibres	NONE
Radio-active substances	NONE
Beryllium Oxide	NONE
Other forms of Beryllium	BE-CU in some connector contacts ↓
Gasses - which fall under Regulation (EC) 2037/2000 and all hydrocarbons (HC).	NONE
Components with pressurised gas which need special attention (Pressure > 1,5 bar) *****	NONE
Liquids ***** if volume > 10 cl (or equivalence in weight, e.g. for PCB, oil...)	NONE
Mechanical components that store mechanical energy (i.e. springs) or equivalent parts which need special attention ***** (diameter > 10 mm and height > 25 mm or proportionally similar volume and expanding)	NONE
PBDE (deca- & octa-BDE) and Perfluorocatane sulfantes (PFOS) in Directive 2006/122/EC	NONE

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↓ = arrow indicates the need for the location of the compartment/ substances within the product. When the location of a substance/ components is requested, it is at part level, e.g. main board, housing etc

* Internal means that batteries can only be removed by opening the product by means of (a) tool(s).

** Substances are considered to be in the product if present above the levels specified in Commission Decision 2005/618/EC related to Directive 2002/95/(EC) (RoHS Directive) or if their use is permitted through exemptions in the Annex of Directive 2002/95(EC)

*** To be coherent with industry current standards and practices on tracking of plastic parts, Directive 2002/96 (EC) Annex II requirement is understood to focus on plastic parts that weight more than 25 g.

**** Substance of concern other than PCB, to be specified/ addressed further in the context of Directive 2002/96 (EC) Annex II national requirements and European developments

***** Needs of equivalent nature as those for maintenance, service manuals and installation for safety purposes.