

Serveis de manteniment de maquinari HP a FGC

Especificació tècnica

Àrea de Tecnologia Informàtica
Tecnologies de la Informació i les Comunicacions
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1. Introducció

Ferrocarrils de la Generalitat de Catalunya disposa als Centres de Processament de Dades de Sarrià i Rubí de diversos sistemes per donar serveis informàtics de l'àmbit Corporatiu, suportats sobre maquinari Hewlett Packard (HP): servidors, elements de connectivitat, unitats d'emmagatzemament, etc.

2. Objecte

L'objecte del present document és indicar la necessitat de contractar el manteniment d'aquest equipament HP des del moment de la formalització del contracte fins el 31/12/2026.

3. Equipament a mantenir

L'equipament afectat per aquest servei de manteniment seran tots aquells equips HP que donen suport i són plataforma dels sistemes informàtics lligats a l'àmbit Corporatiu de FGC.

En concret aquest equipament és:

P/N	Descripció	S/N	Unitats
813198-B21	HPE BL460c G9 E5v4 10/20Gb FLB CTO Blade	CZ263502CK	1
813198-B21	HPE BL460c G9 E5v4 10/20Gb FLB CTO Blade	CZ263502CM	1
813198-B21	HPE BL460c G9 E5v4 10/20Gb FLB CTO Blade	CZ263502CL	1
819853-L21	HPE BL460c Gen9 E5 -2695v4 FIO Kit	-	3
819853-B21	HPE BL460c Gen9 E5-2695v4 Kit	TVZRCC4VX418L7	1
819853-B21	HPE BL460c Gen9 E5-2695v4 Kit	TVZRCC4VX418L5	1
819853-B21	HPE BL460c Gen9 E5-2695v4 Kit	TVZRCC4VX418L9	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FP	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418EQ	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FO	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FQ	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418ER	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418ES	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418ET	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418EU	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418EV	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418EW	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418EX	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418EY	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418EZ	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418F0	1

836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FJ	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FK	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FL	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FM	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FN	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FI	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GL	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GK	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GJ	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GI	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FR	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GM	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GN	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GO	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GP	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GQ	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GR	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GS	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418GT	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418F3	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418F4	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418F5	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418F6	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418F7	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418F8	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418F9	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FA	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FB	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FC	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FD	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FE	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FF	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FG	1
836220-B21	HPE 16GB 2Rx4 PC4-2400T-R Kit	RFANPC4XW418FH	1
700764-B21	HP FlexFabric 20Gb 2P 650FLB FIO Adptr	PDBLC0AQ93623U	1
700764-B21	HP FlexFabric 20Gb 2P 650FLB FIO Adptr	PDBLC0AQ93622X	1
700764-B21	HP FlexFabric 20Gb 2P 650FLB FIO Adptr	PDBLC0AQ936240	1
710608-B21	HP QMH2672 16Gb FC HBA	-	3
700139-B21	HP 32GBmicroSDMainstream Flash Media Kit	-	3
E5Y34A	HP OV 3yr 24x7 Supp Phys 1 Svr Lic	-	3
E5Y34A	HP OV 3yr 24x7 Supp Phys 1 Svr Lic	-	3
813198-B21	HPE BL460c G9 E5v4 10/20Gb FLB CTO Blade	CZ27110294	1
819853-L21	HPE BL460c Gen9 E5 -2695v4 FIO Kit	-	1

819853-B21	HPE BL460c Gen9 E5-2695v4 Kit	TVZRCC4VX695IG	1
805358-B21	HPE 64GB 4Rx4 PC4-2400T-L Kit	RFANUC4XC692WB	1
805358-B21	HPE 64GB 4Rx4 PC4-2400T-L Kit	RFANUC4XC692WI	1
805358-B21	HPE 64GB 4Rx4 PC4-2400T-L Kit	RFANUC4XC692WJ	1
805358-B21	HPE 64GB 4Rx4 PC4-2400T-L Kit	RFANUC4XC692WL	1
805358-B21	HPE 64GB 4Rx4 PC4-2400T-L Kit	RFANUC4XC692WM	1
805358-B21	HPE 64GB 4Rx4 PC4-2400T-L Kit	RFANUC4XC692WN	1
805358-B21	HPE 64GB 4Rx4 PC4-2400T-L Kit	RFANUC4XC695JL	1
805358-B21	HPE 64GB 4Rx4 PC4-2400T-L Kit	RFANUC4XC695JM	1
700066-B21	HP FlexFabric 20Gb 2P 630FLB FIO Adptr	-	1
710608-B21	HP QMH2672 16Gb FC HBA	-	1
846497-B21	HPE Dual 120GB RI-1 M.2 BL Enblmnt Kit	-	1
E5Y34A	HP OV 3yr 24x7 Supp Phys 1 Svr Lic	-	1
E5Y34A	HP OV 3yr 24x7 Supp Phys 1 Svr Lic	-	1
727021-B21	HP BL460c Gen9 10Gb/20Gb FLB CTO Blade	CZ25330563	1
727003-L21	HP BL460c Gen9 E5-2695v3 FIO Kit	TEDKF4LVX9C1HM	1
727003-B21	HP BL460c Gen9 E5-2695v3 Kit	TEDKF4LVX9C1HL	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C152	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C153	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C154	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C155	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C156	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C157	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C158	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C159	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15A	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15B	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15C	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15D	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15E	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15F	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15G	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15I	1
700764-B21	HP FlexFabric 20Gb 2P 650FLB FIO Adptr	PDBLC0AU38Y347	1
651281-B21	HP QMH2572 8Gb FC HBA	PCREE0AST7QZZX	1
726116-B21	HP 8GB Micro sd EM Flash Media Kit	TW75310F2J	1
727021-B21	HP BL460c Gen9 10Gb/20Gb FLB CTO Blade	CZ25330564	1
727021-B21	HP BL460c Gen9 10Gb/20Gb FLB CTO Blade	CZ25330565	1
727003-L21	HP BL460c Gen9 E5-2695v3 FIO Kit	TEDKF4LVX9C1HJ	1
727003-L21	HP BL460c Gen9 E5-2695v3 FIO Kit	TEDKF4LVX9C1HH	1
727003-B21	HP BL460c Gen9 E5-2695v3 Kit	TEDKF4LVX9C1HK	1
727003-B21	HP BL460c Gen9 E5-2695v3 Kit	TEDKF4LVX9C1HI	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14B	1

726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14C	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14D	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14E	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14F	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14G	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14H	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14I	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15H	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15I	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15J	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15K	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15L	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15M	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15O	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C15N	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14J	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14K	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14L	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14M	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14N	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14O	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14P	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14Q	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14R	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14S	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14T	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14U	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14V	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14W	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14X	1
726719-B21	HP 16GB 2Rx4 PC4-2133P-R Kit	REBAH4LXC9C14Y	1
700764-B21	HP FlexFabric 20Gb 2P 650FLB FIO Adptr	PDBLC0AU38Y34E	1
700764-B21	HP FlexFabric 20Gb 2P 650FLB FIO Adptr	PDBLC0AU38Y343	1
651281-B21	HP QMH2572 8Gb FC HBA	PCREE0AST7Q0FR	1
651281-B21	HP QMH2572 8Gb FC HBA	PCREE0AST7Q016	1
726116-B21	HP 8GB Micro sd EM Flash Media Kit	TW75310EVC	1
726116-B21	HP 8GB Micro sd EM Flash Media Kit	TW75310EV9	1
H0JD4AC	HPE TS Support Credits 90	-	1
HPE-EOSL-R8-STOR	AJ820A - HP B-series 8/12c BladeSystem S	CN8036A05J	1
HPE-EOSL-R8-STOR	AJ820A - HP B-series 8/12c BladeSystem S	CN8036A06V	1
HPE-EOSL-7G-NETW	J9726A - Aruba 2920 24G Switch	SG42FLW0QS	1

HPE-EOSL-7G-NETW	J9726A - Aruba 2920 24G Switch	SG42FLW0R1	1
HPE-EOSL-96-ISS	751465-B21 - HP VC 16Gb 24-Port FC Modul	1CG708002F	1
HPE-EOSL-96-ISS	751465-B21 - HP VC 16Gb 24-Port FC Modul	1CG7090025	1
HPE-EOSL-96-ISS	751465-B21 - HP VC 16Gb 24-Port FC Modul	1CG716001P	1
HPE-EOSL-96-ISS	751465-B21 - HP VC 16Gb 24-Port FC Modul	1CG716001W	1
403320-B22	HP BLc7000 1 PH 2 PSU 4 Fan Trl ICE Kit	GB8850BX1W	1
412142-B21	HP BLc7000 Encl Mgmt Module Option	O98BMP4034	1
406740-B21	HP BLc 1Gb Enet Pass Thru Mod Opt Kit	TWT848V0EG	1
406740-B21	HP BLc 1Gb Enet Pass Thru Mod Opt Kit	TWT848V0YD	1
406740-B21	HP BLc 1Gb Enet Pass Thru Mod Opt Kit	TWT848V0H1	1
406740-B21	HP BLc 1Gb Enet Pass Thru Mod Opt Kit	TWT848V02L	1
406740-B21	HP BLc 1Gb Enet Pass Thru Mod Opt Kit	TWT848V10J	1
406740-B21	HP BLc 1Gb Enet Pass Thru Mod Opt Kit	TWT848V0EK	1
412140-B21	HP BLc Encl Single Fan Option	-	1
412138-B21	HP 2250W Ht Plg Pwr Supply Kit	5A22B0EHLV021N	1
412138-B21	HP 2250W Ht Plg Pwr Supply Kit	5A22B0EHLV92GM	1
412138-B21	HP 2250W Ht Plg Pwr Supply Kit	5A22B0FHLWF23S	1
412138-B21	HP 2250W Ht Plg Pwr Supply Kit	5A22B0FHLWF24E	1
412138-B21	HP 2250W Ht Plg Pwr Supply Kit	5A22B0FHLWM0ZY	1
412138-B21	HP 2250W Ht Plg Pwr Supply Kit	5A22B0FHLWM0ZZ	1
638526-B21	HP BLc VC Flex-10/10D Module Opt	7C934300C9	1
638526-B21	HP BLc VC Flex-10/10D Module Opt	7C934300CA	1
638526-B21	HP BLc VC Flex-10/10D Module Opt	7C934300FD	1
638526-B21	HP BLc VC Flex-10/10D Module Opt	7C934300FG	1
681844-B21	HP BLc7000 CTO 3 IN LCD Plat Enclosure	CZ37202J83	1
751465-B21	HP VC 16Gb 24-Port FC Module	1CG716001P	1
751465-B21	HP VC 16Gb 24-Port FC Module	1CG716001W	1
456204-B21	HP BLc7000 DDR2 Encl Mgmt Option	OB6BCP0494	1
456204-B21	HP BLc7000 DDR2 Encl Mgmt Option	OB73CP2948	1
681844-B21	HP BLc7000 CTO 3 IN LCD Plat Enclosure	CZ37202F5L	1
751465-B21	HP VC 16Gb 24-Port FC Module	1CG708002F	1
751465-B21	HP VC 16Gb 24-Port FC Module	1CG7090025	1
456204-B21	HP BLc7000 DDR2 Encl Mgmt Option	OB6BCP0392	1
456204-B21	HP BLc7000 DDR2 Encl Mgmt Option	OB73CP2880	1
863442-B21	HPE BL460c Gen10 10Gb/20Gb FLB CTO Blade	CZ282605Z4	1
863442-B21	HPE BL460c Gen10 10Gb/20Gb FLB CTO Blade	CZ29120H0J	1
863442-B21	HPE BL460c Gen10 10Gb/20Gb FLB CTO Blade	CZ28500C39	1

4. Acords de Nivell de Servei

Suport reactiu hardware

- Cobertura horària 24/7
- Temps de resposta in-situ (Barcelona i Rubí): 4h
- Peces i materials nous o funcionalment equivalents inclosos

Suport reactiu software

- Cobertura horària 24/7
- Temps de resposta en remot: 2h
- Suport col·laboratiu per a software d'altres fabricants inclòs

Serveis proactius

- Assessorament tècnic i operacional: 90 crèdits
- Els serveis proactius que s'acordin realitzar es prestaran sobre els equips anteriorment llistats