

CAPITOLATO TECNICO

Oggetto: Condizioni per la fornitura del servizio di manutenzione biennale per le macchine Server, Storage, Switch dello IIT e del Registro.it e installazione RAM per nodi anycast.

CIG : 880201548F

Premessa

Il Registro.it, servizio dell'Istituto di Informatica e Telematica del CNR di Pisa, ha la necessità di procedere all'acquisizione di un servizio di manutenzione biennale per le macchine Server, Storage, Switch dello IIT e del Registro.it e l'installazione di RAM aggiuntiva per i server dei nodi anycast, mediante RDO aperta in base all'art. 36 del D.lgs 50/2016 con il criterio di selezione dell'offerta del minor prezzo, ricorrendo le condizioni di cui all'art. 95, comma 4, lettere b) e c) del D.Lgs. 50/2016.

Caratteristiche del servizio

Il contratto di manutenzione dovrà comprendere, oltre alla copertura di tutte le componenti Hardware, anche gli aggiornamenti firmware e tutte le eventuali batterie tampone dei server e degli storage oggetto del contratto. La tipologia del contratto per quanto riguarda le tempistiche di intervento è: Due anni Next Business Day (2YNBD) e comunque come specificato nell'allegato 1 al presente capitolato tecnico.

L'apertura e la gestione delle chiamate dovrà avvenire tramite portale, appositamente predisposto a tale scopo, in orario base dal Lunedì al Venerdì dalle ore 9 alle ore 18, festività nazionali escluse.

La data di inizio del contratto di manutenzione dovrà essere il 14 settembre 2021..

Per alcuni apparati la data di inizio del servizio di manutenzione potrà essere posticipata di alcuni mesi in quanto già coperti da altro contratto di manutenzione.

Gli apparati oggetto del contratto di manutenzione sono elencati nel file .pdf allegato al presente capitolato tecnico (Allegato 1),

Oltre al servizio di manutenzione, l'offerta degli operatori economici, dovrà essere comprensiva dell'espansione della RAM di alcuni Server, dislocati all'estero, come indicato nell'Allegato 1 al presente capitolato tecnico e dovranno essere garantite le seguenti condizioni:

- l'installazione della RAM dovrà essere eseguita dal personale della ditta che si aggiudica la gara e nessun onere dovrà gravare sullo IIT-CNR;
- per effettuare l'aggiornamento la ditta potrà usufruire degli slot liberi (dove possibile), utilizzando RAM esattamente uguale (vedi part number);
- negli altri casi potrà procedere alla completa sostituzione, utilizzando però, all'interno di ogni server, RAM dello stesso vendor e tutte con lo stesso part number.



ALLEGATO 1

Elenco ApparatI oggetto del contratto di manutenzione

Marca	Modello	Seriale	Data Inizio	Data Fine	Localizzazione	Tipo supporto
Dell	PowerEdge R320	4FMNW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R320	8KMXW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R420	1TSC002	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R420	2TSC002	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R420	2WDHZY1	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R420	3TSC002	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R420	5TSC002	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R420	8XHK022	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R420	CWDHZY1	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	1RWNT72	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	1RWWT72	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	1S5RT72	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	1SJST72	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R810	BB7255J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL380p Gen8	CZ23280680	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL180 G6	CZ3229R1DY	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL180 G6	CZ3229R1E1	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL380p Gen8	CZ2328067Z	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL380p Gen8	CZ232805Y6	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL370 G6	CZJ21516JG	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL370 G6	CZJ21516JF	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R410	8LV175J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	1SKQ5K2	2022-05-12	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R620	1MK2F5J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	1SJW5K2	2022-05-12	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	1SLT5K2	2022-05-12	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	1SJQ5K2	2022-05-12	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HPE	ProLiant DL360 Gen10	CZJ00409HF	2023-02-23	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R330	3BQ88C2	2021-03-03	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R440	5XYWHP2	2023-04-17	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R440	5XYZHP2	2023-04-17	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R440	5XZ1JP2	2023-04-17	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD

Marca	Modello	Seriale	Data Inizio	Data Fine	Localizzazione	Tipo supporto
Dell	PowerEdge R330	3BQ38C2	2021-03-21	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R410	1SM345J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R310	623445J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R410	6LV175J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL380p Gen8	CZ221404RG	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R320	6KMPW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R320	9KMPW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	677XMK2	2022-06-25	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R620	97NNW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HPE	ProLiant DL20 Gen10	CZ293401H8	2023-08-31	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HPE	ProLiant DL20 Gen10	CZ293401H9	2023-08-31	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R520	F8NTW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R820	6WMXW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	3BR88C2	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R430	3BT18C2	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL360 G7	CZJ15206MB	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL360 G7	CZJ15206MC	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL360 G7	CZJ15206KJ	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL360 G7	CZJ15206KK	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R320	1FMNW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HP	ProLiant DL380p Gen8	CZ2328067Y	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HPE	ProLiant DL20 Gen10	CZ293401H7	2023-08-31	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
HPE	ProLiant DL20 Gen10	CZ293401H6	2023-08-31	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R720	2P685Z1	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R720	8N685Z1	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R720	HL685Z1	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R720	9M685Z1	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R610	7R6445J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R610	DT6445J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R310	9PQZ75J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerVault MD3260	38LVW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R320	FKMXW02	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	PowerEdge R310	8PQZ75J	2021-09-14	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD

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Dell	PowerEdge R410	7LV175J	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R620	37NPW02	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R620	F7NNW02	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R620	H6NPW02	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R620	H7NXW02	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R620	67NNW02	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R620	D7NPW02	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R610	BK0C85J	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R610	7K0C85J	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R610	8K0C85J	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R610	9K0C85J	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R330	3BP58C2	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R620	FKZ65Z1	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R620	1KZ65Z1	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R620	87NXW02	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R610	8GR525J	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R330	3BP48C2	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R610	9GR525J	2021-09-14	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Dell	PowerEdge R420	JZ8F302	2021-09-14	2023-09-13	c/o Netnod, Stoccolma (Sweden)	NBD / Best effort
Dell	PowerEdge R420	J29F302	2021-09-14	2023-09-13	c/o Netnod, Stoccolma (Sweden)	NBD / Best effort
Dell	PowerEdge R320	DKMVW02	2021-09-14	2023-09-13	Level 3 Communications BV c/o Stekkenbergweg 4 1105 AJ, Amsterdam (Netherlands)	NBD / Best effort
Dell	PowerEdge R320	6FMPW02	2021-09-14	2023-09-13	Level 3 Communications BV c/o Stekkenbergweg 4 1105 AJ, Amsterdam (Netherlands)	NBD / Best effort
Dell	PowerEdge R320	HDMPW02	2021-09-14	2023-09-13	c/o Equinix FR7 - DE-CIX3/TC-J/K - Gutleutstrasse 310, Francoforte (Germany)	NBD / Best effort
Dell	PowerEdge R420	4RMTW02	2021-09-14	2023-09-13	c/o Equinix FR7 - DE-CIX3/TC-J/K - Gutleutstrasse 310, Francoforte (Germany)	NBD / Best effort

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Dell	PowerEdge R320	3FMVW02	2021-09-14	2023-09-13	c/o L3 Goswell Road Islington, London (United Kingdom)	NBD / Best effort
Dell	PowerEdge R320	CKMXW02	2021-09-14	2023-09-13	c/o L3 Goswell Road Islington, London (United Kingdom)	NBD / Best effort
Dell	PowerEdge R330	3BP68C2	2021-09-14	2023-09-13	Equinix NY5-800 Secaucus Road-Secaucus (New Jersey United States)	NBD / Best effort
Dell	PowerEdge R330	3BQ18C2	2021-09-14	2023-09-13	Equinix NY5-800 Secaucus Road-Secaucus (New Jersey United States)	NBD / Best effort
Dell	PowerEdge R430	BMTJWL2	2022-09-21	2023-09-13	Atlantic Metro Communications c/o Coresite 624 S. Grand Avenue Los Angeles, CA 90017 (USA)	NBD / Best effort
Dell	PowerEdge R430	BMTKWL2	2022-09-21	2023-09-13	Atlantic Metro Communications c/o Coresite 624 S. Grand Avenue Los Angeles, CA 90017 (USA)	NBD / Best effort
Dell	PowerEdge R330	3BR18C2	2021-09-14	2023-09-13	c/o Equinix TR2-45 Parliament Street Toronto (Canada)	NBD / Best effort
Dell	PowerEdge R330	3BR78C2	2021-09-14	2023-09-13	c/o Equinix TR2-45 Parliament Street Toronto (Canada)	NBD / Best effort
				2023-09-13		
Juniper	EX4200-24T	BM0213053265	2021-09-14	2023-09-13	Roma	NBD / Best effort
Juniper	EX4300-24T	PG3716510190	2021-09-14	2023-09-13	Pavia	NBD / Best effort
Juniper	EX4200-24T	BM0213053251	2021-09-14	2023-09-13	Stoccolma	NBD / Best effort
Juniper	EX4200-24T	BM0213519808	2021-09-14	2023-09-13	Amsterdam	NBD / Best effort
Juniper	EX4200-24T	BM0213063820	2021-09-14	2023-09-13	Francoforte	NBD / Best effort
Juniper	EX4200-24T	BM0213519778	2021-09-14	2023-09-13	Londra	NBD / Best effort
Juniper	EX4200-24T	BM0210394687	2021-09-14	2023-09-13	New York	NBD / Best effort

Marca	Modello	Seriale	Data Inizio	Data Fine	Localizzazione	Tipo supporto
Juniper	EX4200-24T	BM0213519763	2021-09-14	2023-09-13	Los Angeles	NBD / Best effort
Juniper	EX4200-24T	BM0213519756	2021-09-14	2023-09-13	Toronto	NBD / Best effort
Hitachi	HUS 150 Dual Controller - Control Tray	93053635	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 00	00325086	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 01	00325074	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 02	00325075	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 03	00317546	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 04	00318005	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 05	00306110	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 06	00305377	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 07	00306109	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 08	00300808	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 09	00300413	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Tray 10	00306032	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	HUS 200GB SAS SSD SFF for DBS-Base	8 SSD	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	HUS 600GB SAS 10K RPM HDD SFF for CBSS/DBS-Base	91 HDD	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	HUS 2TB SAS 7.2K RPM HDD LFF for CBSL/DBL-Base	58 HDD	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Brocade	Brocade 6510	BRW2506LOBK	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Brocade	Brocade 6510	BRW2550K04G	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Brocade	Brocade 7800	ASS2545K00G	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Brocade	Brocade ICX 6430-24	BZN3243K058	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	HNAS_SMU	S000820120003981	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Hitachi HNAS 4040	M2SEKW1451379	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Hitachi	Hitachi HNAS 4040	M2SEKW1451371	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	Dell PowerConnect 2848	372J0Z1	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD
Dell	Dell PowerConnect 2848	GH2J0Z1	2022-02-01	2023-09-13	Via G. Moruzzi, 1, Pisa (Italy)	NBD

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Hitachi	HUS 150 Dual Controller - Control Tray	93053636	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Hitachi	Tray 00	00325073	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Hitachi	Tray 01	00317778	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Hitachi	Tray 02	00321911	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Hitachi	HUS 200GB SAS SSD SFF for DBS-Base	8 SSD	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Hitachi	HUS 600GB SAS 10K RPM HDD SFF for CBSS/DBS-Base	15 HDD	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Hitachi	HUS 2TB SAS 7.2K RPM HDD LFF for CBSL/DBL-Base	17 HDD	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Brocade	Brocade 6505	CCD1912L03F	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Brocade	Brocade 6505	CCD2505L06W	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD
Brocade	Brocade 7800	ASS2550K00C	2022-02-01	2023-09-13	c/o SuperNap, Siziano Pavia (Italy)	NBD

Elenco apparati su cui installare la RAM

SITE	MODEL	SERIAL	INSTALLED RAM				TOTAL RAM AFTER UPGRADE
			sticks / size	type	part number	slot free	
Level 3 Communications BV c/o Stekkenbergweg 4 1105 AJ, Amsterdam (Netherlands)	Dell R320	DKMVW02	2x4 GB	DDR3 / RDIMM / 1066 MHz	9KSF51272PZ-1G6E2	4	16 GB
Equinix FR7 - DE-CIX3/TC-J/K - Gutleutstrasse 310, Francoforte (Germany)	Dell R320	HDMPW02	2x4 GB	DDR3 / RDIMM / 1066 MHz	9KSF51272PZ-1G6E2	4	16 GB
L3 Goswell Road Islington, London (United Kingdom)	Dell R320	3FMVW02	2x4 GB	DDR3 / RDIMM / 1066 MHz	9KSF51272PZ-1G6E2	4	16 GB
Level 3 Communications BV c/o Stekkenbergweg 4 1105 AJ, Amsterdam (Netherlands)	Dell R320	6FMPW02	2x4 GB	DDR3 / RDIMM / 1066 MHz	9KSF51272PZ-1G6E2	4	32 GB
L3 Goswell Road Islington, London (United Kingdom)	Dell R320	CKMXW02	2x4 GB	DDR3 / RDIMM / 1066 MHz	9KSF51272PZ-1G6E2	4	32 GB
Equinix NY5-800 Secaucus Road-Secaucus (New Jersey United States)	Dell R330	3BQ18C2	4x4 GB	DDR4 / UDIMM / 2133 MHz	HMA451U7AFR8N-TF	0	32 GB
Equinix TR2-45 Parliament Street Toronto (Canada)	Dell R330	3BR78C2	4x4 GB	DDR4 / UDIMM / 2133 MHz	HMA451U7AFR8N-TF	0	32 GB