

## Obiettivi

Fornitura presso il magazzino di Calenzano degli switch seguenti:

Apparati EXTREME come da Part Number (codici del vendor) indicati nella prima colonna delle tabelle relative a ciascun item.

In tutte le tabelle successive è presente una riga (identificata da “99-Conf-01” o “99-Conf-02”) che corrisponde alle attività da eseguire per la messa in esercizio degli apparati nella rete della Committente (ASPI), in particolare è richiesto che le macchine abbiano già una configurazione base che permetta:

- Presa in carico da sistema di monitoraggio ASPI “Microfocus NOM”
- Configurazione TACACS
- Configurazione Extreme management
- Aggiornamento all’ultima versione software
- Creazione Stack
- Configurazione NTP/SNMP
- Diagnostica avanzata dell’apparato
- Configurazione indirizzi di gestione out of band
- Predisposizione presa in carico per sistemi di configurazione automatica

Queste attività di tuning e pre-configurazione sono da intendersi comprese nella quotazione e da svolgersi presso la sede dell’aggiudicatario, a cura di un sistemista senior, prima della consegna dei sistemi.

Allegato tecnico – Fornitura switch EXTREME

**ITEM 1** – ciascuna unità è così costituita:

| Codice                             | Descrizione   |
|------------------------------------|---|
| <b>Switch X460-G2-24P GALLERIE</b> |   |
| 16703                              | Summit X460-G2 24 10/100/1000BASE-T PoE+ 8 100/1000BASE-X unpopd SFP (4 SFP ports shared) 4 1000/10GBaseX unpopd SFP+ ports Rear VIM Slot (unpopd) Rear Timing Slot (unpopd) 2 unpopd PSU slots fan module slot (unpopd) ExtremeXOS Advanced Edge license with EXOS Release 22.1 or greater |
| 16710                              | Optional Virtual Interface Module for the rear of the X460-G2 providing 2 40GBASE-X ports unpopulated QSFP+   |
| 10941                              | 1100W AC PoE Power Supply Module with front to back airflow   |
| 10941                              | 1100W AC PoE Power Supply Module with front to back airflow   |
| 10094                              | Power Cord 10A EUROPE CEE7 IEC320-C15   |
| 10094                              | Power Cord 10A EUROPE CEE7 IEC320-C15   |
| 10945                              | Fan Module for Summit X460-G2/X450-G2 Series Switches - front to back airflow   |
| 10312                              | 40 Gigabit Ethernet QSFP+ passive copper cable assembly 1m length.  |
| 97008-16703                        | EW 4HR ONSITE 16703   |
| 97008-16710                        | EW 4HR ONSITE 16710   |
| 99-Conf-01                         | Servizi di assemblaggio delle singole componenti, aggiornamento software, configurazione sistemistica, tuning software in ambiente ASPI da Sistemista Senior  |

Allegato tecnico – Fornitura switch EXTREME

**ITEM 2** – ciascuna unità è così costituita:

| Codice                            | Descrizione  |
|-----------------------------------|--|
| <b>Stack X460-G2-48P - UTENTI</b> |  |
| 16704                             | Summit X460-G2 48 10/100/1000BASE-T PoE+ 4 1000/10GBaseX unpopd SFP+ ports Rear VIM Slot (unpopd) Rear Timing Slot (unpopd) 2 unpopd PSU slots fan module slot (unpopd) ExtremeXOS Advanced Edge license with EXOS Release 22.1 or greater |
| 16704                             | Summit X460-G2 48 10/100/1000BASE-T PoE+ 4 1000/10GBaseX unpopd SFP+ ports Rear VIM Slot (unpopd) Rear Timing Slot (unpopd) 2 unpopd PSU slots fan module slot (unpopd) ExtremeXOS Advanced Edge license with EXOS Release 22.1 or greater |
| 16710                             | Optional Virtual Interface Module for the rear of the X460-G2 providing 2 40GBASE-X ports unpopulated QSFP+  |
| 16710                             | Optional Virtual Interface Module for the rear of the X460-G2 providing 2 40GBASE-X ports unpopulated QSFP+  |
| 10941                             | 1100W AC PoE Power Supply Module with front to back airflow  |
| 10941                             | 1100W AC PoE Power Supply Module with front to back airflow  |
| 10941                             | 1100W AC PoE Power Supply Module with front to back airflow  |
| 10941                             | 1100W AC PoE Power Supply Module with front to back airflow  |
| 10094                             | Power Cord 10A EUROPE CEE7 IEC320-C15  |
| 10094                             | Power Cord 10A EUROPE CEE7 IEC320-C15  |
| 10094                             | Power Cord 10A EUROPE CEE7 IEC320-C15  |
| 10094                             | Power Cord 10A EUROPE CEE7 IEC320-C15  |
| 10945                             | Fan Module for Summit X460-G2/X450-G2 Series Switches - front to back airflow  |
| 10945                             | Fan Module for Summit X460-G2/X450-G2 Series Switches - front to back airflow  |
| 10311                             | 40 Gigabit Ethernet QSFP+ passive copper cable assembly 0.5m length.   |
| 10311                             | 40 Gigabit Ethernet QSFP+ passive copper cable assembly 0.5m length.   |
| 97008-16704                       | EW 4HR ONSITE 16704  |
| 97008-16704                       | EW 4HR ONSITE 16704  |
| 97008-16710                       | EW 4HR ONSITE 16710  |
| 97008-16710                       | EW 4HR ONSITE 16710  |
| 99-Conf-01                        | Servizi di assemblaggio delle singole componenti, aggiornamento software, configurazione sistemistica, tuning software in ambiente ASPI da Sistemista Senior   |

Allegato tecnico – Fornitura switch EXTREME

**ITEM 3** – ciascuna unità è così costituita:

| Codice                     | Descrizione  |
|----------------------------|--|
| <b>Stack X690 FIBRA DT</b> |  |
| 17350                      | X690 base unit with 48 1Gb/10Gb SFP+ ports 2 10Gb/40Gb QSFP+ ports 4 10Gb/25Gb/40Gb/50Gb/100Gb capable QSFP28 ports 2 unpopulated power supplies slots 6 unpopulated fan module slots ExtremeXOS Advanced Edge License |
| 17350                      | X690 base unit with 48 1Gb/10Gb SFP+ ports 2 10Gb/40Gb QSFP+ ports 4 10Gb/25Gb/40Gb/50Gb/100Gb capable QSFP28 ports 2 unpopulated power supplies slots 6 unpopulated fan module slots ExtremeXOS Advanced Edge License |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 17115                      | X870 Fan Module Front-to-Back airflow  |
| 10960                      | 770W AC power supply Front-to-Back airflow   |
| 10960                      | 770W AC power supply Front-to-Back airflow   |
| 10960                      | 770W AC power supply Front-to-Back airflow   |
| 10960                      | 770W AC power supply Front-to-Back airflow   |
| 10033                      | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10033                      | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10033                      | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10033                      | Pwr Cord10ACEE 7/7IEC320-C13   |
| 17131                      | ExtremeXOS Core License Summit X670 Series   |
| 17131                      | ExtremeXOS Core License Summit X670 Series   |
| 17133                      | ExtremeXOS MPLS Feature Pack for Summit X670 series switches   |
| 17133                      | ExtremeXOS MPLS Feature Pack for Summit X670 series switches   |
| 10410                      | 100Gb QSFP28-QSFP28 Direct attach passive copper cable 0.5m  |
| 10410                      | 100Gb QSFP28-QSFP28 Direct attach passive copper cable 0.5m  |
| 97008-17350                | EW 4HR ONSITE 17350  |
| 97008-17350                | EW 4HR ONSITE 17350  |
| 97000-17131                | EW TAC OS Summit 17131   |
| 97000-17131                | EW TAC OS Summit 17131   |
| 97000-17133                | EW TAC OS Summit 17133   |
| 97000-17133                | EW TAC OS Summit 17133   |
| 99-Conf-01                 | Servizi di assemblaggio delle singole componenti, aggiornamento software, configurazione sistemistica, tuning software in ambiente ASPI da Sistemista Senior   |

Allegato tecnico – Fornitura switch EXTREME

**ITEM 4** – ciascuna unità è così costituita:

| Codice                    | Descrizione  |
|---------------------------|--|
| <b>Stack X690 RAME DT</b> |  |
| 17360                     | X690 base unit with 48 1Gb/10GBASE-T ports 2 10Gb/40Gb QSFP+ ports 4 10Gb/25Gb/40Gb/50Gb/100Gb capable QSFP28 ports 2 unpopulated power supplies slots 6 unpopulated fan module slots ExtremeXOS Advanced Edge License |
| 17360                     | X690 base unit with 48 1Gb/10GBASE-T ports 2 10Gb/40Gb QSFP+ ports 4 10Gb/25Gb/40Gb/50Gb/100Gb capable QSFP28 ports 2 unpopulated power supplies slots 6 unpopulated fan module slots ExtremeXOS Advanced Edge License |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 17115                     | X870 Fan Module Front-to-Back airflow  |
| 10960                     | 770W AC power supply Front-to-Back airflow   |
| 10960                     | 770W AC power supply Front-to-Back airflow   |
| 10960                     | 770W AC power supply Front-to-Back airflow   |
| 10960                     | 770W AC power supply Front-to-Back airflow   |
| 10033                     | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10033                     | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10033                     | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10033                     | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10410                     | 100Gb QSFP28-QSFP28 Direct attach passive copper cable 0.5m  |
| 10410                     | 100Gb QSFP28-QSFP28 Direct attach passive copper cable 0.5m  |
| 97008-17360               | EW 4HR ONSITE 17360  |
| 97008-17360               | EW 4HR ONSITE 17360  |
| 99-Conf-01                | Servizi di assemblaggio delle singole componenti, aggiornamento software, configurazione sistemistica, tuning software in ambiente ASPI da Sistemista Senior   |

Allegato tecnico – Fornitura switch EXTREME

**ITEM 5** – ciascuna unità è così costituita:

| Codice                                 | Descrizione  |
|--|--|
| <b>Stack X460-G2-24T STAZIONI MPLS</b> |  |
| 16716                                  | Summit X460-G2 24 10/100/1000BASE-T 8 100/1000BASE-X unpopd SFP (4 SFP ports shared) 4 1GBASE-X unpopd SFP Rear VIM Slot (unpopd) Rear Timing Slot (unpopd) 2 unpopd PSU slots fan module slot (unpopd) ExtremeXOS Advanced Edge license with EXOS Release 22.1 or greater |
| 16716                                  | Summit X460-G2 24 10/100/1000BASE-T 8 100/1000BASE-X unpopd SFP (4 SFP ports shared) 4 1GBASE-X unpopd SFP Rear VIM Slot (unpopd) Rear Timing Slot (unpopd) 2 unpopd PSU slots fan module slot (unpopd) ExtremeXOS Advanced Edge license with EXOS Release 22.1 or greater |
| 16423                                  | ExtremeXOS Advanced Core License upgrade from Advanced Edge License for Summit X460 X460-G2 series switches  |
| 16423                                  | ExtremeXOS Advanced Core License upgrade from Advanced Edge License for Summit X460 X460-G2 series switches  |
| 16424                                  | ExtremeXOS MPLS Feature Pack for Summit X460 X460-G2 Series Switches   |
| 16424                                  | ExtremeXOS MPLS Feature Pack for Summit X460 X460-G2 Series Switches   |
| 10930A                                 | 300W AC Power Supply module for Summit X460 E4G-400 Series Switches - Extended Temparture Range from -10 to +50 degrees Celsius  |
| 10930A                                 | 300W AC Power Supply module for Summit X460 E4G-400 Series Switches - Extended Temparture Range from -10 to +50 degrees Celsius  |
| 10930A                                 | 300W AC Power Supply module for Summit X460 E4G-400 Series Switches - Extended Temparture Range from -10 to +50 degrees Celsius  |
| 10930A                                 | 300W AC Power Supply module for Summit X460 E4G-400 Series Switches - Extended Temparture Range from -10 to +50 degrees Celsius  |
| 10033                                  | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10033                                  | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10033                                  | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10033                                  | Pwr Cord10ACEE 7/7IEC320-C13   |
| 10945                                  | Fan Module for Summit X460-G2/X450-G2 Series Switches - front to back airflow  |
| 10945                                  | Fan Module for Summit X460-G2/X450-G2 Series Switches - front to back airflow  |
| 10304                                  | 10 Gigabit Ethernet SFP+ passive cable assembly 1m length.   |
| 10304                                  | 10 Gigabit Ethernet SFP+ passive cable assembly 1m length.   |
| 97008-16716                            | EW 4HR ONSITE 16716  |
| 97008-16716                            | EW 4HR ONSITE 16716  |
| 97000-16423                            | EW TAC OS 16423  |
| 97000-16423                            | EW TAC OS 16423  |
| 97000-X460MPLS                         | EW TAC OS Summit X460MPLS  |
| 97000-X460MPLS                         | EW TAC OS Summit X460MPLS  |
| 99-Conf-01                             | Servizi di assemblaggio delle singole componenti, aggiornamento software, configurazione sistemistica, tuning software in ambiente ASPI da Sistemista Senior   |

Allegato tecnico – Fornitura switch EXTREME

**ITEM 6** – ciascuna unità è così costituita:

| Codice  | Descrizione  |
|---|--|
| <b>Upgrade 3M Flow/Minute Extreme Analytics</b> |  |
| PV-FPM-3M                                       | EXTREME ANALYTICS LICENSE FOR 3M FPM   |
| 99-Conf-02                                      | Servizi di aggiornamento software compresa la gestione delle licenze e caricamento su sistema ASPI |