

The City of Duluth has done it's due diligence with respect to the design of a new Public Safety Data Center. The City has completed a thorough network analysis and has standardized on Cisco Infrastructure equipment for the network environment. The City is seeking Cisco Gold certified vendor responses to the enclosed Request for Bid (RFB) for the attached specified equipment.

**Minimum Infrastructure Specification Requirements**

**Nexus 5548UP Core Switching**

			Cost	Ex Cost
Part Number	Description	Qty		
N5K-C5548UP-FA	Nexus 5548 UP Chassis, 32 10GbE Ports, 2 PS, 2 Fans	2		
N55-BAS1K9	Layer 3 Base License for Nexus 5500 Platform	2		
N55-PAC-750W	Nexus 5500 PS, 750W, Front to Back Airflow(Port-Side Outlet)	4		
N5548-ACC-KIT	Nexus 5548 Chassis Accessory Kit	2		
N5548P-FAN	Nexus 5548P and 5548UP Fan Module, Front to Back Airflow	4		
N55-M-BLNK	Nexus 5500 Module Blank Cover	2		
N55-D160L3	Nexus 5548 Layer 3 Daughter Card	2		
SFP-10G-SR	10GBASE-SR SFP Module	16		
N55-8P-SSK9	Nexus 5500 Storage License, 8 Ports	2		
N55-LAN1K9	Layer 3 License for Nexus 5500 Platform	2		
N5KUK9-503N2.1	Nexus 5000 Base OS Software Rel 5.0(3)N2(1)	2		
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	4		
CON-SNTP-C5548UP	SMARTNET 24X7X4 Nexus 5548 UP Chassis, 32 10GbE Ports	2		

**Nexus 2248 Fabric Extender**

Part Number	Description	Qty		
N2K-C2248TF-1GE	Nexus 2248TP with 8 FET	2		
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length	4		
FET-10G	10G Line Extender for FEX	16		
N2248TP-FA-BUN	Standard airflow pack: N2K-C2248TP-1GE, 2AC PS, 1Fan	2		
CON-SNTP-N2248F	SMARTNET 24X7X4 Nexus 2248TP with 8 FET	2		

**ASR1001 WAN Router Option**

Part Number	Description	Qty		
ASR1001	Cisco ASR1001 System,Crypto, 4 built-in GE, Dual P/S	1		
SASR1001U-34S	Cisco ASR 1001 IOS XE UNIVERSAL - NO ENCRYPTION	1		
SLASR1-IPB	Cisco ASR 1000 IP BASE License	1		
SFP-GE-S	1000BASE-SX SFP (DOM)	2		
SFP-GE-L	1000BASE-LX/LH SFP (DOM)	4		
M-ASR1K-1001-4GB	Cisco ASR1001 4GB DRAM	1		
ASR1001-PWR-AC	Cisco ASR1001 AC Power Supply	2		
CAB-AC-RA	Power Cord,110V, Right Angle	2		
CON-SNTP-SLASR1IK	SMARTNET 24X7X4 Cisco ASR 1000 IP BASE License	1		
CON-SNTP-CASR1001	SMARTNET 24X7X4 Cisco ASR1001 System,Crypto	1		

**3750X LAN Switching**

Part Number	Description	Qty		
WS-C3750X-48P-S	Catalyst 3750X 48 Port PoE IP Base	8		
SFP-10G-SR=	10GBASE-SR SFP Module	6		
C3KX-PWR-715WAC	Catalyst 3K-X 715W AC Power Supply	8		
C3KX-PWR-715WAC/2	Catalyst 3K-X 715W AC Secondary Power Supply	3		
CAB-SPWR-30CM	Catalyst 3750X Stack Power Cable 30 CM	6		
CAB-SPWR-150CM	3750X Stack Power Cable 150 CM - Upgrade	2		
CAB-3KX-AC	AC Power Cord for Catalyst 3K-X (North America)	8		
CAB-STACK-50CM	Cisco StackWise 50CM Stacking Cable	6		
CAB-STACK-1M	Cisco StackWise 1M Stacking Cable	2		
C3KX-NM-10G	Catalyst 3K-X 10G Network Module option PID	6		

S375XVK9T-12255SE	CAT 3750X IOS UNIVERSAL WITH WEB BASE DEV MGR	8		
CON-SNT-3750X4PS	SMARTNET 8X5XNBD Catalyst 3750X 48 Port PoE IP Base	8		
<b>2921 Voice Gateway</b>				
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>		
CISCO2921-V/K9	Cisco 2921 UC Bundle, PVD3-32, UC License PAK	1		
S29UK9-15104M	Cisco 2901-2921 IOS UNIVERSAL	1		
MEM-CF-256U1GB	256MB to 1GB Compact Flash Upgrade for Cisco 1900,2900,3900	1		
EVM-HD-8FXS/DID	High density voice/fax extension module - 8 FXS/DID	1		
EM-HDA-6FXO	6-port voice/fax expansion module - FXO	1		
EM3-HDA-8FXS/DID	8-port voice/fax expansion module - FXS and DID	1		
VVIC2-2MFT-T1/E1	2-Port 2nd Gen Multiflex Trunk Voice/WAN Int. Card - T1/E1	1		
PVDM3-32U128	PVDM3 32-channel to 128-channel factory upgrade	1		
SM-NM-ADPTR	Network Module Adapter for SM Slot on Cisco 2900, 3900 ISR	1		
PWR-2921-51-AC	Cisco 2921/2951 AC Power Supply	1		
CAB-AC	AC Power Cord (North America), C13, NEMA 5-15P, 2.1m	1		
ISR-CCP-EXP	Cisco Config Pro Express on Router Flash	1		
MEM-2900-512MB-DEF	512MB DRAM for Cisco 2901-2921 ISR (Default)	1		
SL-29-IPB-K9	IP Base License for Cisco 2901-2951	1		
SL-29-UC-K9	Unified Communication License for Cisco 2901-2951	1		
CON-SNT-2921V	SMARTNET 8X5XNBD Cisco 2921 Voice Bundle	1		
<b>IP Phones</b>				
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>		
CP-7937G=	Cisco UC Conference Station 7937 Global	2		
CP-7965G=	Cisco UC Phone 7965, Gig Ethernet, Color, spare	21		
CP-7945G=	Cisco UC Phone 7945, Gig Ethernet, Color, spare	104		
CP-7911G=	Cisco UC Phone 7911G	12		
<b>IP Phone Accessories</b>				
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>		
CP-7916=	7916 UC Phone Color Expansion Module	6		
CP-SINGLFOOTSTAND=	Footstand kit for single 7914, 7915, or 7916	6		
CP-PWR-CORD-NA=	7900 Series Transformer Power Cord, North America	6		
CP-PWR-CUBE-3=	IP Phone power transformer for the 7900 phone series	6		
CP-LCKNGWALLMNT2=	Universal Locking Wallmount Kit for 7900 Series IP Phones	13		
<b>Wireless WCS and Controller Licensing</b>				
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>		
WCS-STANDARD-K9	WCS Top Level SKU for AP capacity options.	1		
WCS-PLUS-100	Cisco WCS with PLUS License for 100 APs, Windows/Linux	1		
CON-SAU-WCSSTDK9	SW APP SUPP + UPGR WCS Top Level SKU for AP capacity option	1		
CON-SAU-WCSP100	SW APP SUPP + UPGR Cisco WCS with PLUS	1		
LIC-CT5508-UPG	Primary SKU for all upgrade options on the Cisco 5508 WC	1		
LIC-CT5508-100A	100 AP Adder License for the 5508 Controller	1		
CON-SNT-LCTUPG	SMARTNET 8X5XNBD Primary SKU	1		
CON-SNT-LCT100A	SMARTNET 8X5XNBD 100 AP Adder License for 5508	1		
<b>Secure ACS Server</b>				
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>		
CSACS-5.2-VM-K9	ACS 5.2 VMWare Software And Base License	1		
CSACS-5-BASE-LIC	Cisco Secure ACS 5 Base License	1		
CON-SAS-CSACS52V	SW APP SUPP ACS 5.2 VMWare Software And Base License	1		

<b>3502i Access Points</b>		
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
AIR-CAP3502I-AK910	802.11a/g/n Ctrlr-based 10APs w/CleanAir; Int; A Reg Domain	1
S3G1RK9W8-12423JA	Cisco 3500 Series IOS Wireless LAN Controller-based Recovery	1
AIR-CAP3502I-ABULK	BOM LEVEL BULK PACK PID FOR -A	10
AIR-AP-BRACKET-1	802.11n AP Low Profile Mounting Bracket (Default)	10
AIR-AP-T-RAIL-R	Ceiling Grid Clip for Aironet APs - Recessed Mount (Default)	10
<b>Alternate Option A: 3502i Access Points</b>		
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
AIR-CAP3502I-AK910	802.11a/g/n Ctrlr-based 10APs w/CleanAir; Int; A Reg Domain	4
S3G1RK9W8-12423JA	Cisco 3500 Series IOS Wireless LAN Controller-based Recovery	4
AIR-CAP3502I-ABULK	BOM LEVEL BULK PACK PID FOR -A	40
AIR-AP-BRACKET-1	802.11n AP Low Profile Mounting Bracket (Default)	40
AIR-AP-T-RAIL-R	Ceiling Grid Clip for Aironet APs - Recessed Mount (Default)	40
<b>3502e Access Points (Qty 2 for Outdoors)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
AIR-CAP3502E-A-K9	802.11a/g/n Ctrlr-based AP w/CleanAir; Ext Ant; A Reg Domain	2
AIR-ANT2460NP-R=	2.4 GHz 6 dBi 802.11n directional antenna	2
S3G1RK9W8-12423JA	Cisco 3500 Series IOS Wireless LAN Controller-based Recovery	2
AIR-AP-BRACKET-1	802.11n AP Low Profile Mounting Bracket (Default)	2
AIR-AP-T-RAIL-R	Ceiling Grid Clip for Aironet APs - Recessed Mount (Default)	2
<b>UCS Blade Server</b>		
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
UCS-SP3-ENTV-B200	UCS SP3 BNDL 2FI, 1xChassis-4xB200,2xE5649,48GMem/B200,12x14	1
UCS-SP3-B200VP-14	UCS SP3 BNDL w/Chassis-4xB200, 2xE5649, 192GB RAM/ 48GB ea,	1
N20-B6625-1	UCS B200 M2 Blade Server w/o CPU, memory, HDD, mezzanine	4
A01-X0120	Intel Xeon E5649 2.53GHz /6c/80W/12MB cache/DDR3 1333MHz	8
N01-M308GB2-L	8GB DDR3-1333MHz RDIMM/PC3-10600/dual rank/Low-Dual Volt	24
A03-D146GA2	146GB 6Gb SAS 10K RPM SFF HDD/hot plug/drive sled mounted	8
N20-AC0002	UCS M81KR Virtual Interface Card/PCIe/2-port 10Gb	4
N20-BHTS1	CPU heat sink for UCS B200 Blade Server	8
N01-UAC1	Power Distribution Unit - Single Phase AC	1
N20-CAK	Access. kit for 5108 Blade Chassis incl Railkit, KVM dongle	1
N20-CBLKB1	Blade slot blanking panel for UCS 5108/single slot	4
N20-FAN5	Cisco Server Blade Chassis Fan Module	8
N20-FW006	UCS 5108 Blade Server Chassis FW package	1
N20-I6584	UCS 2104XP Fabric Extender/4 external 10Gb ports	2
N20-PAC5-2500W	2500W AC power supply unit for UCS 5108	4
CAB-C13-CBN	Cabinet Jumper Power Cord, 250 VAC 10A, C14-C13 Connectors	4
UCS-SP3-S6100	UCS 20-Port FI w/ FC Expn Card, Cables Bundle, UCSM	2
N10-MGT006	UCS Manager v1.4	2
N10-PAC1-550W	550W power supply unit for UCS 6120XP/100-240VAC	4
CAB-C13-CBN	Cabinet Jumper Power Cord, 250 VAC 10A, C14-C13 Connectors	4
DS-SFP-FC8G-SW	8 Gbps Fibre Channel SW SFP+, LC	12
SFP-10G-SR	10GBASE-SR SFP Module	4
SFP-H10GB-CU3M	10GBASE-CU SFP+ Cable 3 Meter	8
N10-SACCA	Accessory kit for UCS 6120XP Fabric Interconnect	2
N10-E0060	6-port 8Gb FC/Expansion module/UCS 6100 Series	2
CON-UCS7-B200VP14	UC SUPPORT 24X7X4OS 5108 Blade Server Chassis	1
CON-UCS7-B66251	UC SUPPORT 24X7X4OS UCSB200 M2 Blade Svr w/o CPU Mem HDD Mez	4
CON-UCS7-SP3S6100	UC SUPPORT 24X7X4OS 6120XP 20PT Fabric Interconnect	2
CON-UCS7-1E0060	UC SUPPORT 24X7X4OS 6Pt 8Gb FC/Expansion Mod/UCS 6100 Series	2

