

ADDENDUM

<i>QTY</i>	<i>ITEM</i>	<i>Description</i>	<i>Precio</i>	<i>Total</i>
HARDWARE – UMET / OCIT Private Cloud				
<u>1</u>	<u>Cisco UCS Chassis</u>	<ul style="list-style-type: none"> • Cisco UCS 5108 Blade Chassis • Two UCS 2208XP I/O (8 External / 32 Internal 10GB Ports) • 8 Fan Modules • 4 2500W Platinum AC Hot Plug PWR • Five years warranty onsite 24x7x4 		
<u>16</u>	<u>Fabric Interconnect Additional Ports / Lic</u>	<ul style="list-style-type: none"> • UCS 6200 Series Fabric Interconnect 1 port 1/10GE/FC-port E-license 		
<u>6</u>	<u>Cisco UCS Blade</u>	<ul style="list-style-type: none"> • Cisco UCS B200 M5 Blade Servers • Two CPU Sockets, 2.6Ghz 6126 /125W/12C • 768 GB RAM Memory (32GB DIMMS) • Cisco UCS VIC 1340 • Five years warranty onsite 24x7x4 		
<u>1</u>	<u>Cisco UCS Blade</u>	<ul style="list-style-type: none"> • Cisco UCS B200 M4 Blade Servers • Two CPU Sockets, 2.6Ghz E5-2623v4/85W/4C • 768 GB RAM Memory (32GB DIMMS) • Two 300GB SAS 10K HDD • Cisco UCS VIC 1340 • Five years warranty onsite 24x7x4 		
<u>24</u>	<u>Cisco UCS Blade Memory Upgrade</u>	<ul style="list-style-type: none"> • 32GB DDR4-2400-MHz RDIMM / PC4-19200/dual rank/x4/1.2v 		
<u>1</u>	<u>EMC 75TB Usable (No Effective Capacity) Hybrid Storage</u>	<ul style="list-style-type: none"> • EMC UNITY 300 • 70% 1.8TB SAS Drives • 30% 3.2TB Flash 3 Drives • 4x16GB FC ports • Base software <ul style="list-style-type: none"> ○ Unisphere Suite ○ File, Block, VVols ○ Snapshots ○ Encryption ○ Anti-virus ○ Native Replication ○ FAST Cache & FAST VP • Trade-in - Actual VNX5200 with 3x200GB Fast Cache / 8x900GB 10K SAS HDD / 4p FC 8GB • Five years warranty onsite 24x7x4 		
<u>4</u>	<u>Data Domain Upgrade</u>	<ul style="list-style-type: none"> • 45TB RAW upgrade enclosure to existing Data Domain infrastructure. 		
<u>1</u>	<u>Network connectivity</u>	<ul style="list-style-type: none"> • All necessary 10GB Gbic included • All necessary 16GB Gbic included 		

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		<ul style="list-style-type: none"> • All necessary ports licenses included • All fiber cables for interconnection included 		

SOFTWARE – UMET / OCIT Private Cloud				
16	<u>VMware vSphere to vCloud Upgrade License</u>	<ul style="list-style-type: none"> • VMware vSphere 6 with Operations Management Enterprise Plus (Per CPU) to VMware vCloud Suite 7 Advanced • Basic Support/Subscription VMware vCloud Suite 7 Advanced for 1 year 		
8	<u>VMware VSOM SNS Renewal</u>	<ul style="list-style-type: none"> • Basic Support/Subscription VMware vSphere 6 with Operations Management Enterprise Plus for 1 year 		
2	<u>VMware vCenter SNS Renewal</u>	<ul style="list-style-type: none"> • Basic Support/Subscription VMware vCenter Server 6 Standard for vSphere 6 (Per Instance) for 1 year 		
5	<u>VMware View 4 Premier Add-On SNS Renewal</u>	<ul style="list-style-type: none"> • Basic Support Coverage Academic VMware View 4 Premier Add-On: 10 pack 		
16	<u>VMware NSX License</u>	<ul style="list-style-type: none"> • VMware NSX Advanced per Processor • Basic Support/Subscription for VMware NSX Advanced per Processor for 1 year 		
7	<u>VMware vRealize Network Insight License</u>	<ul style="list-style-type: none"> • VMware vRealize Network Insight Advanced - Add-on for NSX (100 pack CCU) • Basic Support/Subscription for VMware vRealize Network Insight Advanced - Add-on for NSX (100 pack CCU) for 1 yr 		
2	<u>VMware Site Recovery Manager Standard</u>	<ul style="list-style-type: none"> • VMware Site Recovery Manager 6 Standard (25 VM Pack) • Basic Support/Subscription for VMware Site Recovery Manager (25 VM Pack) for 1 Year 		

SERVICES - UMET / OCIT <i>Private Cloud</i>				
1	<u>Implementation</u>	<ul style="list-style-type: none"> • Cisco UCS Hardware Installation (Chassis and Blades) <ul style="list-style-type: none"> ○ Latest firmware ○ Server Profiling ○ Networking configuration ○ Fabric Interconnect Additional Ports ○ Memory Upgrade • Storage Hardware Installation <ul style="list-style-type: none"> ○ Latest firmware ○ RAID group and Group Pool creation as best practice ○ LUNS Creation as needed • Fiber Channel Switches Hardware <ul style="list-style-type: none"> ○ Firmware Update ○ Necessary zoning • VMware Implementation <ul style="list-style-type: none"> ○ VMware vSphere 6.5 of latest ○ VMware vCenter 6.5 or latest ○ 10 Virtual machine migrations to new infrastructure without affecting production • VMware vRealize Network Insight Implementation • NSX Implementation <ul style="list-style-type: none"> ○ Installation, configuration, and validation of core management components for VMware NSX Manager. According to the design, key features of NSX will be configured and validated, which will include the following: <ul style="list-style-type: none"> ▪ Logical switches. ▪ NSX Edge gateways. ▪ Distributed Logical Router (DLR). ▪ NSX controllers. ▪ Distributed firewall. ○ NSX Edge VTEP (Virtual Tunnel End Point) instances. ○ Layer 3 Edge instances with Dynamic OSPF Routing. ○ Logical Load Balancer instances for vRA ○ Micro-segmentation Firewall Rules for the following applications: <ul style="list-style-type: none"> ▪ Microsoft Active Directory ▪ Microsoft File & Print ▪ Microsoft DHCP • VMware vRealize platform 		

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		<ul style="list-style-type: none"> ○ vRealize Automation appliances with embedded vRealize Orchestrator and Postgres database replication installed and configured. ○ vRealize Automation IaaS web servers installed and configured. ○ vRealize Automation manager servers and orchestrator DEMs installed and configured. ○ vRealize Automation worker DEMs installed and configured. ○ vRealize Automation Proxy Agents installed and configured for connectivity with the compute vCenter Server. ○ Installation and configuration of vRealize Automation components including configuration of the following: <ul style="list-style-type: none"> ▪ Up to one (1) vSphere endpoint. ▪ Up to one (1) vRealize Orchestrator endpoint. ▪ Up to one (1) tenant. ▪ Up to two (2) reservations. ▪ Up to three (3) reservation policies. ▪ One (1) service catalog. ▪ Up to two (2) catalog service groups. ▪ Up to two (2) entitlements. ○ Configuration of IP allocation through vRealize Automation. ○ Configuration of native email notifications. ○ One (1) Virtual infrastructure shutdown blueprints. ○ One (1) Virtual infrastructure startup blueprints. ○ One (1) Windows Server 2012 R2; SQL Server; One Application Server linked clone (Windows using the existing templates in the customer environment). ○ Up to two (2) installation and configuration of up to two (2) VMware vRealize Business Standard appliance. ○ Up to two (2) installation and configuration of up to two (2) vRealize Business Standard data collector appliance. ● EMC Networker Upgrade to latest version. 		
1	<u>Implementation</u>	<ul style="list-style-type: none"> ● VMware Site Recovery Manager platform <ul style="list-style-type: none"> ○ Two site installations ○ Up to 10 VM per sites ○ Up to one Orchestration workflow protection group. 		

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4	<u>Implementation</u>	<ul style="list-style-type: none"> • New Data Domain enclosure installation and configuration in current Data Domain infrastructure. 		
1	<u>Documentation</u>	<ul style="list-style-type: none"> • Project plan with milestone • Hardware and Software Inventory • Physical and Logical Diagrams • Implementation Documentation. 		
1	<u>Training</u>	<ul style="list-style-type: none"> • Implementation Knowledge Transfer • New Infrastructure Administration • VMware vRealize Automation: Install, Configure, Manage • VMware Cloud Orchestration & Extensibility • VMware NSX: Install, Configure, Manage 		
1	<u>Training</u>	<ul style="list-style-type: none"> • EMC UNITY 300 Training 		
1	<u>Consulting</u>	<ul style="list-style-type: none"> • 80 Hours Consultant Technical Services 		