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SECTION 15

ENTERPRISE AND NETWORK MANAGEMENT SYSTEMS

15.1 INTRODUCTION

This section identifies basic requirements for enterprise and network management systems. This section does not specify requirements for how an enterprise or network management system shall display performance data on a user interface, nor the data elements a management system must collect from a Unified Capabilities (UC) product. The individual Unified Capabilities Requirements (UCR) sections describe requirements as to what data elements (e.g., alarms, performance, and status) a UC product is required to send to a network management system for performance and status monitoring.

15.2 MINIMUM

Enterprise and network management systems must do the following:

EMS-000010 Meet all Information Assurance and Security Technical Implementation Guideline (STIG) requirements.

EMS-000020 Must interoperate with UC products' commercial off-the-shelf (COTS) Network Management (NM) interface/system for monitoring and commanding the UC product.

EMS-000030 Leverage COTS interface of UC products to be managed in a secure manner.

EMS-000040 Must be capable of exchanging data with other network management systems for information sharing purposes.

15.2.1 Connectivity to Monitored Network Elements

The management system must have the capability to establish the following protocols for communication with a UC product:

EMS-000050 Receiving Simple Network Management Protocol (SNMP) version 3 (SNMPv3) traps from a monitored product.

EMS-000060 Sending SNMP [Management Information Base (MIB)] poll requests to a monitored product.

EMS-000070 Collecting and mediating Call Detail Records (CDRs) and Internet protocol (IP) Detail Records (IPDRs) from a monitored product in a secure manner.

EMS-000080 Securing the connection using Transport Layer Security (TLS).

15.2.2 Segregation of NM Data Into Categories

The Electronic Message System (EMS) must be capable of receiving and analyzing the following NM data categories:

EMS-000090 System Events.

EMS-000100 Security Events.

EMS-000110 Performance Events (5-minute polls).

EMS-000120 Performance (15-minute polls).

EMS-000130 CDRs.