



APPENDIX **C**

Application Protocols

This appendix lists important protocols. For details about these protocols and the Application Flow, refer to the Excel Spreadsheet EDCS-572796.

Table C-1 Application Protocols

| | |
|------------|--|
| HTTP | 80/TCP HTTP (HyperText Transfer Protocol—Used for transferring web pages |
| HTTPS | 443/TCP,UDP HTTPS—HTTP Protocol over TLS/SSL (encrypted transmission) |
| FTP | 20/TCP,UDP FTP—Data port Official |
| FTP | 21/TCP,UDP FTP—Control (command) port |
| SSH | 22/TCP,UDP SSH (Secure Shell) —Used for secure logins, file transfers (SCP, SFTP) and port forwarding |
| Telnet | 23/TCP,UDP Telnet Protocol—Unencrypted text communications |
| DNS | 53/TCP,UDP DNS (Domain Name System) |
| CSA-Client | For Agents to CSAMC, the following are needed: 5401/TCP 5402/TCP 443/TCP 80/TCP |
| CSA-Server | 5401/UDP for CSAMC to Agents |
| TACACS | 49/TCP,UDP TACACS Login Host protocol |
| RADIUS | 1812/UDP radius, RADIUS authentication protocol |
| RADIUS | 1813/UDP radacct, RADIUS accounting protocol |
| DHCP | 67/UDP BOOTP (BootStrap Protocol) server; also used by DHCP (Dynamic Host Configuration Protocol) Official |
| DHCP | 68/UDP BOOTP client; also used by DHCP Official |
| TFTP | 69/UDP TFTP (Trivial File Transfer Protocol) |
| NTP | 123/UDP NTP (Network Time Protocol) - used for time synchronization Official |
| NetBIOS | 137/TCP,UDP NetBIOS NetBIOS Name Service Official |
| NetBIOS | 138/TCP,UDP NetBIOS NetBIOS Datagram Service Official |
| NetBIOS | 139/TCP,UDP NetBIOS NetBIOS Session Service |

Table C-1 Application Protocols (continued)

| | |
|---------------------------|---|
| RPC | 135/TCP, Windows RPC |
| MSDS | 445/TCP Microsoft-DS (Active Directory, Windows shares, Sasser worm, Agobot, Zobotworm) |
| MSDS | 445/UDP Microsoft-DS SMB file sharing |
| RDP | 3389/tcp Microsoft Terminal Server (RDP) officially registered as Windows Based Terminal (WBT) |
| SNMP | 161/TCP,UDP SNMP (Simple Network Management Protocol) Official |
| SNMP | 162/TCP,UDP SNMPTRAP |
| HSRP | 1985/UDP Cisco HSRP |
| SQL | 1433/tcp, udp Microsoft SQL database system Official |
| SQL | 1434/tcp, udp Microsoft SQL Monitor |
| SYSLOG | 514/UDP syslog protocol - used for system logging |
| AV | 82/tcp McAfee Antivirus Update |
| ICMP | ALL ICMP |
| NetFlow | 2055/TCP Cisco NetFlow |
| LDAP | 636/TCP,UDP LDAP over SSL (encrypted transmission) |
| LDAP | 389/TCP,UDP LDAP (Lightweight Directory Access Protocol) |
| KERBEROS | 464/TCP,UDP Kerberos Change/Set password |
| KERBEROS | 543/TCP klogin, Kerberos login |
| KERBEROS | 544/TCP kshell, Kerberos Remote shell |
| KERBEROS | 88/TCP Kerberos—Authenticating agent |
| KERBEROS | 88/UDP Kerberos—Authenticating agent |
| GC | TCP Port 3268—Global Catalog Server Local Security Authority |
| GC | TCP Port 3269—Global Catalog Server Local Security Authority |
| ASP | TCP Port 42424—ASP.Net Session State ASP.NET State Service |
| LWAPP-S | UDP/12223 IS used for controller source UDP port to AP "LWAPP control" |
| LWAPP | UDP/12222 used for controller source UDP port to AP "LWAPP data" |
| RSA File Security Manager | <p>TCP/19978 and TCP/5766</p> <ul style="list-style-type: none"> • Audit Port: <ul style="list-style-type: none"> – Default listening port is TCP/19978 – The audit service is listening for requests initiated by the adapter manager (console) • Configuration Port: <ul style="list-style-type: none"> – Default listening port is TCP/5766 – The configuration service is listening for requests from the adapter manager (console) |
| RSA Key Manager | 443/TCP,UDP HTTPS—HTTP Protocol over TLS/SSL (encrypted transmission) |