

## App L Supported Packet Trace Sources and Protocols

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For supported packet trace sources and protocols, see the following topics:

- Supported Packet Trace Sources
- Supported Protocols

### Supported Packet Trace Sources

AppTransaction Xpert imports packet traces from the following sources:

#### Application Capture Agents

- Native application packet traces, which have a suffix of .appcapture

#### Wireshark

- Capture/convert packet traces in .pcap /.pcapng format  
(Only .pcapng formats that can be converted to .pcap by Wireshark are supported.)

#### tcpdump

- Free UNIX utility widely used in academia
- Available at many locations including <http://ee.lbl.gov>

**Note**—You must include the “**-w** <filename>” command-line argument to write the packet contents to a file

#### windump

- Free Windows version of tcpdump
- <http://netgroup-serv.polito.it/windump>

#### Cisco Network Analysis Module (uncompressed .enc files)

- Capture directly on a Cisco NAM from Capture Manager, or
- Download capture files in .enc format from the CISCO NAM web UI

#### Network Associates/Network General Sniffer Basic/Pro (Windows version) and Sniffer Analyzer (DOS version)

- Industry standard binary .enc (Ethernet) and .trc (Token Ring) file formats
- Sniffer’s “Print to file” feature enables additional import capabilities, such as FDDI

## **Supported Protocols**

AppTransaction Xpert provides application-specific performance analysis based on over 1,000 application and network decodes, including support for Wireshark.

- For more information, see:
- [Wireshark Integration](#)
- [Additional Protocols](#)

## Wireshark Integration

If you want to make use of Wireshark decodes with AppTransaction Xpert, you may download Wireshark. Wireshark is free, open source software, available from [www.wireshark.org](http://www.wireshark.org) with over 1,000 protocol codes. Use Wireshark with AppTransaction Xpert is subject to the important conditions stated below. If you choose to download and install Wireshark, you can avoid certain errors by doing so before the first time that you run AppTransaction Xpert.

Download and install the Wireshark software version 1.10.1 to use these additional decodes:

- Download the 32-bit installer—this links is a download from the Wireshark Web site. Alternately, you can locate the Wireshark 1.10.1 installer by browsing [www.wireshark.org](http://www.wireshark.org).
- Download the 64-bit installer——this links is a download from the Wireshark Web site. Alternately, you can locate the Wireshark 1.10.1 installer by browsing [www.wireshark.org](http://www.wireshark.org).

For the complete list of supported protocols, see the help provided with Wireshark. (From the Wireshark menu, choose Internals > Supported Protocols.)

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## Additional Protocols

AppTransaction Xpert supports a number of protocols *in addition* to the decodes provided by Wireshark. The following protocol decodes require AppTransaction Xpert Standard, AppTransaction Xpert Plus, or the AppTransaction Xpert Decode Module.

**Table L-1 Additional Supported Protocols**

Protocol	Supported Versions
<b>Citrix (ICA)</b>	<ul style="list-style-type: none"> <li>• AppTransaction Xpert 16.5 supported versions— MetaFrame XP, MetaFrame Presentation Server 3.0, Presentation Server 4.0, Presentation Server 4.5, XenApp 5.0, and XenApp 6.0.</li> <li>• AppTransaction Xpert 14.7, 15.0 and 16.0 supported versions— MetaFrame XP, MetaFrame Presentation Server 3.0, Presentation Server 4.0, and Presentation Server 4.5.</li> <li>- Citrix can be deployed over any number of transport protocols, but the decoder only supports ICA over TCP (port 1494 by default) or ICA over CGP over TCP (port 2598 by default).</li> <li>- The entire Citrix session must be captured (i.e., starting from the TCP connection open) for the decoder to work</li> <li>- Citrix offers several levels of encryption. Currently, only the "basic" encryption is decoded.</li> <li>• AppTransaction Xpert 14.5 supported versions— MetaFrame XP, MetaFrame Presentation Server 3.0, and Presentation Server 4.0.</li> </ul>
<b>DB2</b>	<ul style="list-style-type: none"> <li>• Support SQLAM Level 7 and higher</li> <li>• Support DB2 v6.1 to v9.7</li> <li>• Does not support encrypted data</li> </ul>
<b>FTP</b>	<ul style="list-style-type: none"> <li>• Supported versions— All FTP implementations consistent with the IETF specification</li> <li>- Enhancements to FTP for IPv6 are not supported</li> <li>- Requires use of the External Decoder</li> </ul>
<b>HTTP</b>	<ul style="list-style-type: none"> <li>• Supported versions— HTTP 1.0 and HTTP 1.1</li> </ul>
<b>Informix</b>	<ul style="list-style-type: none"> <li>• Supported versions— Informix 7.30 through 11.10</li> </ul>
<b>MS SQL</b>	<ul style="list-style-type: none"> <li>• Supported versions— MS SQL 7, MS SQL 2000, 2005, and 2008</li> </ul>
<b>NFS</b>	<ul style="list-style-type: none"> <li>• Supported versions— NFS 2.0 and NFS 3.0</li> <li>- Requires use of the external decode</li> <li>• <i>Not Supported</i>— NFS 4.0, security/authentication, and record locking</li> </ul>

**Table L-1 Additional Supported Protocols (Continued)**

Protocol	Supported Versions
<b>Oracle</b>	<ul style="list-style-type: none"> <li>Supported versions— Oracle 8.1.7 through Oracle 11gR2</li> </ul>
<b>SMB/CIFS</b>	<ul style="list-style-type: none"> <li>Supported versions— Windows client and server versions from Windows 2000 onward.</li> <li>- Also supports CIFS 1.0 compatible clients and servers, like Samba. Samba versions &gt; 2.0.</li> <li>- Requires use of the External Decoder</li> </ul>
<b>SOAP</b>	<ul style="list-style-type: none"> <li>Supported versions— SOAP 1.1 and SOAP 1.2</li> </ul>
<b>SSL</b>	<ul style="list-style-type: none"> <li>Supported versions— SSL v3.0 and TLS v1.0 (also known as SSL v3.1).</li> </ul> <p>Only non-ephemeral RSA CipherSuites are supported:</p> <ul style="list-style-type: none"> <li>1 - TLS_RSA_WITH_NULL_MD5</li> <li>2 - TLS_RSA_WITH_NULL_SHA</li> <li>3 - TLS_RSA_EXPORT_WITH_RC4_40_MD5</li> <li>4 - TLS_RSA_WITH_RC4_128_MD5 (Most commonly used)</li> <li>5 - TLS_RSA_WITH_RC4_128_SHA</li> <li>6 - TLS_RSA_EXPORT_WITH_RC2_CBC_40_MD5</li> <li>7 - TLS_RSA_WITH_IDEA_CBC_SHA</li> <li>8 - TLS_RSA_EXPORT_WITH_DES40_CBC_SHA</li> <li>9 - TLS_RSA_WITH_DES_CBC_SHA</li> <li>10 - TLS_RSA_WITH_3DES_EDE_CBC_SHA</li> <li>47 - TLS_RSA_WITH_AES_128_CBC_SHA</li> <li>53 - TLS_RSA_WITH_AES_256_CBC_SHA</li> <li>96,97,98,100 - export ciphers, which are rarely used</li> </ul>
<b>Sybase</b>	<ul style="list-style-type: none"> <li>Supported versions— Sybase ASE 11.9.2 through 15.0.1 Sybase IQ 12.4.2 through 12.5.0</li> </ul>
<b>Teradata</b>	<ul style="list-style-type: none"> <li>Supported Versions— Teradata V2R5.0 through 14.0</li> </ul>
<b>VoIP</b>	<ul style="list-style-type: none"> <li>Supported protocols— SIP, R1P, and RTCP</li> <li><i>Not</i> supported— Cisco Skinny, H.323 protocols</li> </ul>