



## ECHO through EXEC

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# ECHO

<b>Name/CLI Keyword</b>	echo
<b>Full Name</b>	Echo Protocol
<b>Description</b>	Echo is a protocol that is used for debugging and measurement. It works by sending back all the data that was received from the source. The protocol works on TCP and UDP, typically on port 7.
<b>Reference</b>	<a href="http://www.faqs.org/rfcs/rfc862.html">http://www.faqs.org/rfcs/rfc862.html</a>
<b>Global ID</b>	L4:7
<b>ID</b>	101
<b>Known Mappings</b>	
UDP Port	7
TCP Port	7
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	net-admin
<b>Sub Category</b>	network-management
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# EDONKEY-STATIC

<b>Name/CLI Keyword</b>	edonkey-static
<b>Full Name</b>	eDonkey
<b>Description</b>	eDonkey is peer-to-peer file sharing adopted to share large files. The network is based on multiple decentralized servers. Each client must be connected to a server to enter the network. edonkey-static and eMule are also required to fully detect or prevent this application traffic.
<b>Reference</b>	<a href="http://en.wikipedia.org/wiki/EDonkey_network">http://en.wikipedia.org/wiki/EDonkey_network</a>
<b>Global ID</b>	L7:416
<b>ID</b>	1333
<b>Known Mappings</b>	
UDP Port	4661,4662,4663,4664,4665,4672,4673,4711,5662,5773,5783
TCP Port	4661,4662,4663,4664,4665,4672,4673,4711,5662,5773,5783
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	edonkey-emule-group
<b>Category</b>	file-sharing
<b>Sub Category</b>	p2p-file-transfer
<b>P2P Technology</b>	Yes
<b>Encrypted</b>	No
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# EDONKEY

<b>Name/CLI Keyword</b>	edonkey
<b>Full Name</b>	eDonkey
<b>Description</b>	eDonkey is peer-to-peer file sharing adopted to share large files. The network is based on multiple decentralized servers. Each client must be connected to a server to enter the network. edonkey-static and eMule are also required to fully detect or prevent this application traffic.
<b>Reference</b>	<a href="http://web.archive.org/web/20010213200827/www.edonkey2000.com/overview.html">http://web.archive.org/web/20010213200827/www.edonkey2000.com/overview.html</a>
<b>Global ID</b>	L7:67
<b>ID</b>	67
<b>Known Mappings</b>	
UDP Port	-
TCP Port	80,1080,4662
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	edonkey-emule-group
<b>Business Relevance</b>	business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	file-sharing
<b>Sub Category</b>	p2p-file-transfer
<b>P2P Technology</b>	Yes
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No

<b>Underlying Protocols</b>	socks, http
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# EGP

<b>Name/CLI Keyword</b>	egp
<b>Full Name</b>	Exterior Gateway Protocol
<b>Description</b>	Exterior Gateway Protocol (EGP) is a protocol used to convey network information between neighboring gateways, or autonomic systems. This way the gateways acquire neighbors, monitor neighbor reachability and exchange net-reachability information in the form of update messages. EGP is IP protocol number 8.
<b>Reference</b>	<a href="http://tools.ietf.org/html/rfc904">http://tools.ietf.org/html/rfc904</a>
<b>Global ID</b>	L3:8
<b>ID</b>	4
<b>Known Mappings</b>	
UDP Port	-
TCP Port	-
IP Protocol	8
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Category</b>	net-admin
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Sub Category</b>	routing-protocol
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	network-control. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-





# EIGRP

<b>Name/CLI Keyword</b>	eigrp
<b>Full Name</b>	Interior Gateway Routing Protocol
<b>Description</b>	Enhanced Interior Gateway Routing Protocol (EIGRP) is an interior gateway protocol. It is an advanced distance-vector routing protocol, with optimizations to minimize both the routing instability incurred after topology changes, as well as the use of bandwidth and processing power in the router. The protocol is usually known as IP protocol 88 as default.
<b>Reference</b>	<a href="http://www.cisco.com/en/US/tech/tk365/technologies_white_paper09186a0080094cb7.shtml">http://www.cisco.com/en/US/tech/tk365/technologies_white_paper09186a0080094cb7.shtml</a>
<b>Global ID</b>	L3:88
<b>ID</b>	7
<b>Known Mappings</b>	
UDP Port	-
TCP Port	-
IP Protocol	88
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	net-admin
<b>Sub Category</b>	routing-protocol
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	network-control. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No

<b>Underlying Protocols</b>	-
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# ELCSD

<b>Name/CLI Keyword</b>	elcsd
<b>Full Name</b>	errlog copy/server daemon
<b>Description</b>	Registered with IANA on port 704 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:704
<b>ID</b>	608
<b>Known Mappings</b>	
UDP Port	704
TCP Port	704
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	net-admin
<b>Sub Category</b>	network-management
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

## EMBL-NDT

<b>Name/CLI Keyword</b>	embl-ndt
<b>Full Name</b>	EMBL Nucleic Data Transfer
<b>Description</b>	Registered with IANA on port 394 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:394
<b>ID</b>	310
<b>Known Mappings</b>	
UDP Port	394
TCP Port	394
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	industrial-protocols
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# EMCON

<b>Name/CLI Keyword</b>	emcon
<b>Full Name</b>	Emission Control Protocol
<b>Description</b>	Registered with IANA as IP Protocol 14
<b>Reference</b>	<a href="http://www.iana.org/assignments/protocol-numbers/protocol-numbers.xml">http://www.iana.org/assignments/protocol-numbers/protocol-numbers.xml</a>
<b>Global ID</b>	L3:14
<b>ID</b>	769
<b>Known Mappings</b>	
UDP Port	-
TCP Port	-
IP Protocol	14
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	layer3-over-ip
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

## EMFIS-CNTL

<b>Name/CLI Keyword</b>	emfis-cntl
<b>Full Name</b>	EMFIS Control Service
<b>Description</b>	Registered with IANA on port 141 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:141
<b>ID</b>	933
<b>Known Mappings</b>	
UDP Port	141
TCP Port	141
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	other
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

## EMFIS-DATA

<b>Name/CLI Keyword</b>	emfis-data
<b>Full Name</b>	EMFIS Data Service
<b>Description</b>	Registered with IANA on port 140 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:140
<b>ID</b>	929
<b>Known Mappings</b>	
UDP Port	140
TCP Port	140
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	other
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ENCAP

<b>Name/CLI Keyword</b>	encap
<b>Full Name</b>	Encapsulation Header
<b>Description</b>	Encapsulation Protocol is an IP tunneling protocol implemented by encapsulating the IP datagram within an additional IP header, thus enabling a destination to be reached transparently without the source having to know topology specifics.
<b>Reference</b>	<a href="http://tools.ietf.org/html/rfc1241">http://tools.ietf.org/html/rfc1241</a>
<b>Global ID</b>	L3:98
<b>ID</b>	852
<b>Known Mappings</b>	
UDP Port	-
TCP Port	-
IP Protocol	98
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	layer3-over-ip
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-



# ENCRYPTED-BITTORRENT

<b>Name/CLI Keyword</b>	encrypted-bittorrent
<b>Full Name</b>	Encrypted Bittorrent
<b>Description</b>	Encrypted BitTorrent is an attempt to provide anonymous and private BitTorrent traffic. BitTorrent is a peer-to-peer file sharing protocol used for distributing files over the internet. It identifies content by URL and is designed to integrate seamlessly with the web. The BitTorrent protocol is based on a BitTorrent tracker (server) that initializes the connections between the clients (peers).
<b>Reference</b>	<a href="http://www.bittorrent.com/">http://www.bittorrent.com/</a>
<b>Global ID</b>	L7:313
<b>ID</b>	1206
<b>Known Mappings</b>	
UDP Port	-
TCP Port	6881,6882,6883,6884,6885,6886,6887,6888,6889
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	bittorrent-group
<b>Business Relevance</b>	business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	file-sharing
<b>Sub Category</b>	p2p-file-transfer
<b>P2P Technology</b>	Yes
<b>Encrypted</b>	Yes
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	Bittorrent



# ENCRYPTED-EMULE

<b>Name/CLI Keyword</b>	encrypted-emule
<b>Full Name</b>	Encrypted eMule (eDonkey and Kademia)
<b>Description</b>	encrypted-emule, represents the encrypted traffic of eMule which is a peer-to-peer file sharing application based on eDonkey, eDonkey2000 and Kad network.
<b>Reference</b>	<a href="http://www.emule-project.net/">http://www.emule-project.net/</a>
<b>Global ID</b>	L7:417
<b>ID</b>	885
<b>Known Mappings</b>	
UDP Port	-
TCP Port	-
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	edonkey-emule-group
<b>Business Relevance</b>	business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	file-sharing
<b>Sub Category</b>	p2p-file-transfer
<b>P2P Technology</b>	Yes
<b>Encrypted</b>	Yes
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ENTOMB

<b>Name/CLI Keyword</b>	entomb
<b>Full Name</b>	entomb
<b>Description</b>	Registered with IANA on port 775 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:775
<b>ID</b>	647
<b>Known Mappings</b>	
UDP Port	775
TCP Port	775
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	other
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

## ENTRUST-AAAS

<b>Name/CLI Keyword</b>	entrust-aaas
<b>Full Name</b>	entrust-aaas
<b>Description</b>	Registered with IANA on port 680 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:680
<b>ID</b>	588
<b>Known Mappings</b>	
UDP Port	680
TCP Port	680
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	net-admin
<b>Sub Category</b>	authentication-services
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ENTRUST-AAMS

<b>Name/CLI Keyword</b>	entrust-aams
<b>Full Name</b>	entrust-aams
<b>Description</b>	Registered with IANA on port 681 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:681
<b>ID</b>	589
<b>Known Mappings</b>	
UDP Port	681
TCP Port	681
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	net-admin
<b>Sub Category</b>	authentication-services
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ENTRUST-ASH

<b>Name/CLI Keyword</b>	entrust-ash
<b>Full Name</b>	Entrust Administration Service Handler
<b>Description</b>	Registered with IANA on port 710 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:710
<b>ID</b>	613
<b>Known Mappings</b>	
UDP Port	710
TCP Port	710
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	internet-privacy
<b>Sub Category</b>	authentication-services
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ENTRUST-KMSH

<b>Name/CLI Keyword</b>	entrust-kmsh
<b>Full Name</b>	Entrust Key Management Service Handler
<b>Description</b>	Entrust Key Management Service Handler (Entrust-KMSH) is a cryptographic key management service for Entrust, a network security company, authentication products.
<b>Reference</b>	<a href="http://www.entrust.com/">http://www.entrust.com/</a>
<b>Global ID</b>	L4:709
<b>ID</b>	612
<b>Known Mappings</b>	
UDP Port	709
TCP Port	709
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	internet-privacy
<b>Sub Category</b>	authentication-services
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-



## ENTRUST-SPS

<b>Name/CLI Keyword</b>	entrust-sps
<b>Full Name</b>	Entrust SPS
<b>Description</b>	Registered with IANA on port 640 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:640
<b>ID</b>	549
<b>Known Mappings</b>	
UDP Port	640
TCP Port	640
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	business-and-productivity-tools
<b>Sub Category</b>	authentication-services
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# EPMAP

<b>Name/CLI Keyword</b>	epmap
<b>Full Name</b>	DCE endpoint resolution
<b>Description</b>	Registered with IANA on port 135 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:135
<b>ID</b>	1311
<b>Known Mappings</b>	
UDP Port	135
TCP Port	135
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	other
<b>Sub Category</b>	inter-process-rpc
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	transactional-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ERPC

<b>Name/CLI Keyword</b>	erpc
<b>Full Name</b>	Encore Expedited Remote Pro.Call
<b>Description</b>	Registered with IANA on port 121 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:121
<b>ID</b>	990
<b>Known Mappings</b>	
UDP Port	121
TCP Port	121
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	business-and-productivity-tools
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	transactional-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ESCP-IP

<b>Name/CLI Keyword</b>	escp-ip
<b>Full Name</b>	ESCP
<b>Description</b>	Registered with IANA on port 621 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:621
<b>ID</b>	530
<b>Known Mappings</b>	
UDP Port	621
TCP Port	621
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	other
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ESIGNAL

<b>Name/CLI Keyword</b>	esignal
<b>Full Name</b>	eSignal
<b>Description</b>	Used by eSignal in their online trading line of products.
<b>Reference</b>	<a href="http://www.esignal.com/">http://www.esignal.com/</a>
<b>Global ID</b>	L4:2189
<b>ID</b>	1380
<b>Known Mappings</b>	
UDP Port	
TCP Port	2189,2194,2196
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	other
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ESPN-BROWSING

<b>Name/CLI Keyword</b>	espn-browsing
<b>Full Name</b>	ESPN web browsing
<b>Description</b>	ESPN is a global television network focused on sports-related programming. Espn-browsing protocol is used for accessing and browsing the network's websites and mobile applications for iPhone, iPad, Android and WinRT. There is a separate protocol, espn-video, for the network's video streaming services.
<b>Reference</b>	<a href="http://www.espn.com/">http://www.espn.com/</a>
<b>Global ID</b>	L7:551
<b>ID</b>	1486
<b>Known Mappings</b>	
UDP Port	-
TCP Port	-
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	espn-group
<b>Category</b>	browsing
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	Yes
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	ssl,spdy,http

## ESPN-VIDEO

<b>Name/CLI Keyword</b>	espn-video
<b>Full Name</b>	ESPN video streaming
<b>Description</b>	ESPN is a global television network focused on sports-related programming. Espn-video is the protocol used for watching video streams using browser or mobile applications for iPhone, iPad, Android and WinRT.
<b>Reference</b>	<a href="http://www.espn.com/">http://www.espn.com/</a>
<b>Global ID</b>	L7:552
<b>ID</b>	1487
<b>Known Mappings</b>	
UDP Port	-
TCP Port	80,443,554,8554
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	espn-group
<b>Business Relevance</b>	business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	voice-and-video
<b>Sub Category</b>	streaming
<b>P2P Technology</b>	No
<b>Encrypted</b>	Yes
<b>Traffic-class</b>	multimedia-streaming. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	ssl,http,espn-browsing,rtsp,rtmp,rtmpt

## ESRO-EMSDP

<b>Name/CLI Keyword</b>	esro-emsdp
<b>Full Name</b>	ESRO-EMSDP V1.3
<b>Description</b>	Registered with IANA on port 642 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:642
<b>ID</b>	551
<b>Known Mappings</b>	
UDP Port	642
TCP Port	642
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	email
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-



## ESRO-GEN

<b>Name/CLI Keyword</b>	esro-gen
<b>Full Name</b>	Efficient Short Remote Operations
<b>Description</b>	Efficient Short Remote Operations (ESRO) provide an efficient mechanism for realization of Remote Procedure Call.
<b>Reference</b>	<a href="http://tools.ietf.org/html/rfc2188">http://tools.ietf.org/html/rfc2188</a>
<b>Global ID</b>	L4:259
<b>ID</b>	1131
<b>Known Mappings</b>	
UDP Port	259
TCP Port	259
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	other
<b>Sub Category</b>	inter-process-rpc
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	transactional-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# ETHERIP

<b>Name/CLI Keyword</b>	etherip
<b>Full Name</b>	Ethernet-within-IP Encapsulation
<b>Description</b>	EtherIP is a protocol used for tunneling Ethernet packets and IEEE 802.3 MAC frames across an IP internet. It is usually used when the Layer 3 protocol is not IP, or when the Layer 3 data is obscured by encryption. EtherIP is IP protocol number 97.
<b>Reference</b>	<a href="http://tools.ietf.org/html/rfc3378">http://tools.ietf.org/html/rfc3378</a>
<b>Global ID</b>	L3:97
<b>ID</b>	851
<b>Known Mappings</b>	
UDP Port	-
TCP Port	-
IP Protocol	97
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	layer3-over-ip
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-



## EUDORA-SET

<b>Name/CLI Keyword</b>	eudora-set
<b>Full Name</b>	Eudora Set
<b>Description</b>	Registered with IANA on port 592 TCP/UDP
<b>Reference</b>	<a href="http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml">http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xml</a>
<b>Global ID</b>	L4:592
<b>ID</b>	506
<b>Known Mappings</b>	
UDP Port	592
TCP Port	592
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	email
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# EXCHANGE

<b>Name/CLI Keyword</b>	exchange
<b>Full Name</b>	Microsoft Exchange
<b>Description</b>	Exchange is a protocol that allows users to synchronize and connect to their exchange server.
<b>Reference</b>	<a href="http://support.microsoft.com/kb/262986">http://support.microsoft.com/kb/262986</a>
<b>Global ID</b>	L7:49
<b>ID</b>	49
<b>Known Mappings</b>	
UDP Port	-
TCP Port	135,80,443
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Category</b>	email
<b>Sub Category</b>	client-server
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	ssl,spdy,http,ms-rpc

# EXEC

<b>Name/CLI Keyword</b>	exec
<b>Full Name</b>	exec
<b>Description</b>	Remote Execution (EXEC) protocol is used to run a program on a remote server as if it was being run on the local machine. This is accomplished by redirecting standard in/out and standard error through the connection.
<b>Reference</b>	<a href="http://wiki.wireshark.org/Exec">http://wiki.wireshark.org/Exec</a>
<b>Global ID</b>	L4:512
<b>ID</b>	426
<b>Known Mappings</b>	
UDP Port	
TCP Port	512
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	net-admin
<b>Sub Category</b>	remote-access-terminal
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-