



## Protocols: M

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# MAC-OS-X-UPDATES

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mac-os-x-updates  |
| <b>Full Name</b>            | MAC OS X updates  |
| <b>Description</b>          | MAC OS X updates is a service that provides updates for the MAC OS X operating system and its installed components. |
| <b>Reference</b>            | <a href="http://www.apple.com/softwareupdate/">http://www.apple.com/softwareupdate/</a>                             |
| <b>Global ID</b>            | L7:585  |
| <b>ID</b>                   | 1524  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | No  |
| IPv6 Support                | No  |
| <b>Application Group</b>    | apple-group   |
| <b>Business Relevance</b>   | default   |
| <b>Category</b>             | software-updates  |
| <b>Sub Category</b>         | os-updates  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | bulk-data   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns  |

# MAC-SRVR-ADMIN

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mac-srvr-admin   |
| <b>Full Name</b>            | MacOS Server Admin   |
| <b>Description</b>          | Server Admin is one of the remote administration/configuration tools for Mac OS X Server. It is used for remote administration of one or more servers. It can be used to install and setup Mac OS X Server on a remote computer, manage file share points, and configure service settings. |
| <b>Reference</b>            | <a href="http://support.apple.com/kb/HT5050">http://support.apple.com/kb/HT5050</a>  |
| <b>Global ID</b>            | L4:660   |
| <b>ID</b>                   | 568  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 660  |
| TCP Port                    | 660  |
| 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> | -  |

## MAGENTA-LOGIC

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | magenta-logic   |
| <b>Full Name</b>            | Magenta Logic   |
| <b>Description</b>          | Registered with IANA on port 313 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>            | L4:313  |
| <b>ID</b>                   | 1153  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 313   |
| TCP Port                    | 313   |
| 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> | -   |

# MAILBOX-LM

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mailbox-lm   |
| <b>Full Name</b>            | Mailbox-LM   |
| <b>Description</b>          | Mailbox-LM is a used by FTP Daemon, a file transfer protocol server designed to work with IBM Sterling Gentran:Server for UNIX with ADD. The daemon is a tool that provides the user's trading partners direct access to their mailboxes while enabling the user to limit their access to other components of the user's EDI system. |
| <b>Reference</b>            | <a href="http://www-01.ibm.com/support/docview.wss?uid=swg21532169">http://www-01.ibm.com/support/docview.wss?uid=swg21532169</a>  |
| <b>Global ID</b>            | L4:505   |
| <b>ID</b>                   | 419  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 505  |
| TCP Port                    | 505  |
| 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> | -  |

# MAILCHIMP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mailchimp   |
| <b>Full Name</b>            | MailChimp   |
| <b>Description</b>          | MailChimp - Email service provider.                     |
| <b>Reference</b>            | <a href="http://mailchimp.com">http://mailchimp.com</a> |
| <b>Global ID</b>            | L7:651  |
| <b>ID</b>                   | 1580  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Category</b>             | browsing  |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns,quic                                       |



# MAILQ

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mailq   |
| <b>Full Name</b>            | MAILQ   |
| <b>Description</b>          | Mailer transport queue for Zmailer, a mail transfer agent for Linux, BSD and other Unix-like systems. |
| <b>Reference</b>            | <a href="http://www.zmailer.org/">http://www.zmailer.org/</a>   |
| <b>Global ID</b>            | L4:174  |
| <b>ID</b>                   | 1019  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 174   |
| TCP Port                    | 174   |
| 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> | -   |

# MAIL-RU

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mail-ru   |
| <b>Full Name</b>            | Mail.ru   |
| <b>Description</b>          | Russian communication web portal, Email and cloud storage services. |
| <b>Reference</b>            | <a href="http://mail.ru/">http://mail.ru/</a>                       |
| <b>Global ID</b>            | L7:614  |
| <b>ID</b>                   | 1549  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 25,53,5353  |
| TCP Port                    | 25,53,80,110,443,587,5353   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | business-irrelevant   |
| <b>Category</b>             | consumer-internet   |
| <b>Sub Category</b>         | consumer-cloud-storage  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | Yes   |
| <b>Traffic-class</b>        | bulk-data   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | http,ssl,smtp,pop3,dns  |

# MAITRD

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | maitrd  |
| <b>Full Name</b>            | maitrd  |
| <b>Description</b>          | Registered with IANA on port 997 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>            | L4:997  |
| <b>ID</b>                   | 676   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 997   |
| TCP Port                    | 997   |
| 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> | -   |

# MANET

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | manet   |
| <b>Full Name</b>            | MANETs  |
| <b>Description</b>          | A set of protocols used for Mobile Ad hoc Networking. With recent performance advancements in computer and wireless communications technologies, advanced mobile wireless computing is expected to see increasingly widespread use and application, much of which will involve the use of the Internet Protocol (IP) suite. The vision of mobile ad hoc networking is to support robust and efficient operation in mobile wireless networks by incorporating routing functionality into mobile nodes. Such networks are envisioned to have dynamic, sometimes rapidly-changing, random, multihop topologies which are likely composed of relatively bandwidth-constrained wireless links. |
| <b>Reference</b>            | <a href="http://www.ietf.org/rfc/rfc2501">http://www.ietf.org/rfc/rfc2501</a>   |
| <b>Global ID</b>            | L3:138  |
| <b>ID</b>                   | 1236  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | 138   |
| <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> | -   |

# MANOLITO

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | manolito  |
| <b>Full Name</b>            | Manolito  |
| <b>Description</b>          | Manolito is a fast peer to peer filesharing and IM application. Manolito is the base protocol for RockItNet, Piolet and Blubster. |
| <b>Reference</b>            | <a href="http://www.manolito.com/">http://www.manolito.com/</a>   |
| <b>Global ID</b>            | L7:266  |
| <b>ID</b>                   | 383   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <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> | -   |

# MAPI

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mapi   |
| <b>Full Name</b>            | Messaging Application Programming Interface  |
| <b>Description</b>          | Messaging Application Programming Interface (MAPI) is a built-in system in Microsoft Windows. It enables numerous email applications to work together. Microsoft Outlook uses MAPI to communicate with Microsoft Exchange. |
| <b>Reference</b>            | <a href="http://msdn.microsoft.com/en-us/library/aa142548(v=exchg.65).aspx">http://msdn.microsoft.com/en-us/library/aa142548(v=exchg.65).aspx</a>  |
| <b>Global ID</b>            | L7:78  |
| <b>ID</b>                   | 78   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | -  |
| 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>         | client-server  |
| <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> | -  |

# MAPLESTORY

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | maplestory   |
| <b>Full Name</b>            | Maplestory   |
| <b>Description</b>          | Maplestory is a massively multiplayer online (2D) role playing game (MMORPG) developed by the South Korean company Wizet. The protocol runs over TCP traffic and is divided into control traffic and data traffic. |
| <b>Reference</b>            | <a href="http://maplestory.nexon.net/">http://maplestory.nexon.net/</a>  |
| <b>Global ID</b>            | L7:448   |
| <b>ID</b>                   | 1086   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | -  |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | other  |
| <b>Business Relevance</b>   | business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Category</b>             | gaming   |
| <b>Sub Category</b>         | other  |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | No   |
| <b>Traffic-class</b>        | multimedia-conferencing. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | -  |

# MARKETO

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | marketo   |
| <b>Full Name</b>            | Marketo   |
| <b>Description</b>          | Corporate marketing automation software.                      |
| <b>Reference</b>            | <a href="https://www.marketo.com">https://www.marketo.com</a> |
| <b>Global ID</b>            | L7:1180   |
| <b>ID</b>                   | 1180  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | business-irrelevant   |
| <b>Category</b>             | other   |
| <b>Sub Category</b>         | enterprise-cloud-services                                     |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | transactional-data  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | http,ssl,dns  |



# MASHABLE

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mashable  |
| <b>Full Name</b>            | Mashable  |
| <b>Description</b>          | Mashable - News blog website for social network and new technology. |
| <b>Reference</b>            | <a href="http://mashable.com">http://mashable.com</a>               |
| <b>Global ID</b>            | L7:658  |
| <b>ID</b>                   | 1587  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Category</b>             | browsing  |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns,quic   |

# MASQDIALER

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | masqdiabler  |
| <b>Full Name</b>            | Masqdiabler  |
| <b>Description</b>          | The masqdiabler system is designed to provide easily accessible control of multiple dialout modem connections to the members of a LAN using IP Masquerade for their internet connectivity. The system is a client/server design, so as long as a client can be written for a particular platform, that platform can take advantage of masqdiabler's offerings. |
| <b>Reference</b>            | <a href="http://archive.debian.net/potato/net/masqdiabler">http://archive.debian.net/potato/net/masqdiabler</a>  |
| <b>Global ID</b>            | L4:224   |
| <b>ID</b>                   | 1121   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 224  |
| TCP Port                    | 224  |
| 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> | -  |

# MATIP-TYPE-A

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | matip-type-a   |
| <b>Full Name</b>            | MATIP Type A   |
| <b>Description</b>          | Mapping of Airline Traffic over IP Type A (MATIP) is a communication application that connects an airline office or travel agency to a central computer system for seat reservations and ticket issuing. A dumb terminal or a PC accesses the central system (IBM or UNISYS) through a data network. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc2351">http://tools.ietf.org/html/rfc2351</a>  |
| <b>Global ID</b>            | L4:350   |
| <b>ID</b>                   | 266  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 350  |
| TCP Port                    | 350  |
| 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>             | business-and-productivity-tools  |
| <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> | -  |

## MATIP-TYPE-B

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | matip-type-b   |
| <b>Full Name</b>            | MATIP Type B   |
| <b>Description</b>          | Mapping of Airline Traffic over IP Type B (MATIP) is an e-mail application where real-time is not needed. The addressing scheme uses an international format defined by IATA and contains the city and airline codes. It is transmitted with a high level of protection, multi-addressing and four levels of priority. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc2351">http://tools.ietf.org/html/rfc2351</a>  |
| <b>Global ID</b>            | L4:351   |
| <b>ID</b>                   | 267  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 351  |
| TCP Port                    | 351  |
| 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>             | business-and-productivity-tools  |
| <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> | -  |

# MAXDB

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | maxdb   |
| <b>Full Name</b>            | MaxDB relational database management system   |
| <b>Description</b>          | MaxDB is an ANSI SQL-92 (entry level) compliant relational database management system (RDBMS) from SAP AG, which was delivered also by MySQL AB from 2003 to 2007. MaxDB is targeted for large SAP environments e.g. mySAP Business Suite and other applications that require enterprise-level database functionality. It is able to run terabyte-range data in continuous operation. |
| <b>Reference</b>            | <a href="http://maxdb.sap.com/">http://maxdb.sap.com/</a>   |
| <b>Global ID</b>            | L4:7210   |
| <b>ID</b>                   | 1353  |
| <b>Known Mappings</b>       |   |
| UDP Port                    |   |
| TCP Port                    | 7210  |
| 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> | -   |

# MCAFFEE-ANTIVIRUS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mcafee-antivirus  |
| <b>Full Name</b>            | McAfee Antivirus  |
| <b>Description</b>          | McAfee Antivirus and security.                            |
| <b>Reference</b>            | <a href="http://www.mcafee.com">http://www.mcafee.com</a> |
| <b>Global ID</b>            | L4:1031   |
| <b>ID</b>                   | 1031  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | default   |
| <b>Category</b>             | business-and-productivity-tools                           |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | unassigned  |
| <b>Traffic-class</b>        | bulk-data   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | http,ssl,dns  |

# MCAFEE-UPDATE

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mcafee-update   |
| <b>Full Name</b>            | McAfee AutoUpdate   |
| <b>Description</b>          | McAfee AutoUpdate is the virus signature updating service for McAfee VirusScan. This service provides a mechanism for customers to monitor and measure the average bandwidth used in updates. |
| <b>Reference</b>            | <a href="http://www.mcafee.com/">http://www.mcafee.com/</a>   |
| <b>Global ID</b>            | L4:8801   |
| <b>ID</b>                   | 1354  |
| <b>Known Mappings</b>       |   |
| UDP Port                    |   |
| TCP Port                    | 8801  |
| 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> | -   |

# MCIDAS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mcidas  |
| <b>Full Name</b>            | McIDAS Data Transmission Protocol   |
| <b>Description</b>          | McIDAS (Man computer Interactive Data Access System) is a suite of sophisticated software packages that perform a wide variety of functions with satellite imagery, observational reports, numerical forecasts, and other geophysical data. Those functions include displaying, analyzing, interpreting, acquiring and managing the data. |
| <b>Reference</b>            | <a href="http://www.ssec.wisc.edu/mcidas/">http://www.ssec.wisc.edu/mcidas/</a>   |
| <b>Global ID</b>            | L4:112  |
| <b>ID</b>                   | 982   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 112   |
| TCP Port                    | 112   |
| 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> | -   |



# MCNS-SEC

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mcns-sec  |
| <b>Full Name</b>            | mcns-sec  |
| <b>Description</b>          | Registered with IANA on port 638 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>            | L4:638  |
| <b>ID</b>                   | 547   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 638   |
| TCP Port                    | 638   |
| 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> | -   |

# MDC-PORTMAPPER

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mdc-portmapper  |
| <b>Full Name</b>            | mdc-portmapper  |
| <b>Description</b>          | Registered with IANA on port 685 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>            | L4:685  |
| <b>ID</b>                   | 593   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 685   |
| TCP Port                    | 685   |
| 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> | -   |

# MDNS

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mdns   |
| <b>Full Name</b>            | mDNS   |
| <b>Description</b>          | The multicast DNS (mDNS) protocol resolves host names to IP addresses within small networks that do not include a local name server. |
| <b>Reference</b>            | <a href="https://tools.ietf.org/html/rfc6762">https://tools.ietf.org/html/rfc6762</a>  |
| <b>Global ID</b>            | L7:1244  |
| <b>ID</b>                   | 1244   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 53,5353  |
| TCP Port                    | 53,80,5353   |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | other  |
| <b>Business Relevance</b>   | business-relevant  |
| <b>Category</b>             | net-admin  |
| <b>Sub Category</b>         | naming-services  |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | No   |
| <b>Traffic-class</b>        | ops-admin-mgmt   |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | dns  |

# MECOMM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mecomm  |
| <b>Full Name</b>            | Memcomm   |
| <b>Description</b>          | Registered with IANA on port 668 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>            | L4:668  |
| <b>ID</b>                   | 576   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 668   |
| TCP Port                    | 668   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Category</b>             | trojan  |
| <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> | -   |

# MEGAVIDEO

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | megavideo  |
| <b>Full Name</b>            | Megavideo  |
| <b>Description</b>          | MegaVideo is a video sharing website run by the creators of Megaupload, the website officially claims to aim replacing YouTube as the leader in online video. MegaVideo is a website, therefore the underlying protocol is HTTP. |
| <b>Reference</b>            | <a href="http://www.megavideo.com/">http://www.megavideo.com/</a>  |
| <b>Global ID</b>            | L7:459   |
| <b>ID</b>                   | 1318   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | -  |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | No   |
| IPv6 Support                | No   |
| <b>Application Group</b>    | flash-group  |
| <b>Category</b>             | voice-and-video  |
| <b>Sub Category</b>         | streaming  |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | No   |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | -  |

# MEREGISTER

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mereregister  |
| <b>Full Name</b>            | Meregister  |
| <b>Description</b>          | Registered with IANA on port 669 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>            | L4:669  |
| <b>ID</b>                   | 577   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 669   |
| TCP Port                    | 669   |
| 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> | -   |

# MERIT-INP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | merit-inp   |
| <b>Full Name</b>            | MERIT Internodal Protocol   |
| <b>Description</b>          | MERIT Internodal Protocol   |
| <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>            | L3:32   |
| <b>ID</b>                   | 786   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | 32  |
| <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> | -   |

# META5

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | meta5   |
| <b>Full Name</b>            | Meta5   |
| <b>Description</b>          | Used by Meta5 in their products.                          |
| <b>Reference</b>            | <a href="http://www.meta5.com/">http://www.meta5.com/</a> |
| <b>Global ID</b>            | L4:393  |
| <b>ID</b>                   | 309   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 393   |
| TCP Port                    | 393   |
| 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> | -   |



# METAGRAM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | metagram  |
| <b>Full Name</b>            | Metagram Relay  |
| <b>Description</b>          | Registered with IANA on port 99 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>            | L4:99   |
| <b>ID</b>                   | 970   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 99  |
| TCP Port                    | 99  |
| 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> | -   |

# METER

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | meter   |
| <b>Full Name</b>            | Meter   |
| <b>Description</b>          | Registered with IANA on port 570 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>            | L4:570  |
| <b>ID</b>                   | 485   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 570   |
| TCP Port                    | 570   |
| 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> | -   |

# MFCOBOL

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mfcobol  |
| <b>Full Name</b>            | Micro Focus COBOL  |
| <b>Description</b>          | Used by Micro Focus applications such as Enterprise Server, COBOL Server Express and more. |
| <b>Reference</b>            | <a href="http://www.microfocus.com/">http://www.microfocus.com/</a>                        |
| <b>Global ID</b>            | L4:86  |
| <b>ID</b>                   | 958  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 86   |
| TCP Port                    | 86   |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | other  |
| <b>Business Relevance</b>   | business-relevant  |
| <b>Category</b>             | inter-process-rpc  |
| <b>Sub Category</b>         | other  |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | No   |
| <b>Traffic-class</b>        | transactional-data   |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | tcp,udp  |

## MFE-NSP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mfe-nsp   |
| <b>Full Name</b>            | MFE Network Services Protocol   |
| <b>Description</b>          | Registered with IANA as IP Protocol 31  |
| <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>            | L3:31   |
| <b>ID</b>                   | 785   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | 31  |
| <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> | -   |

# MFTP

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mftp   |
| <b>Full Name</b>            | Multisource File Transfer Protocol   |
| <b>Description</b>          | Multisource File Transfer Protocol (MFTP) is designed for the purpose of file sharing. It is still under development, and therefore may acquire more features. This is the communication protocol used by such clients as eMule and eDonkey and, in its extended implementation, by the Overnet network. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/draft-miller-mftp-spec-02">http://tools.ietf.org/html/draft-miller-mftp-spec-02</a>  |
| <b>Global ID</b>            | L4:349   |
| <b>ID</b>                   | 265  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 349  |
| TCP Port                    | 349  |
| 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>             | 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> | -  |

# MGCP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mgcp  |
| <b>Full Name</b>            | Media Gateway Control Protocol  |
| <b>Description</b>          | Media Gateway Control Protocol (MGCP) 1.0 is a protocol for the control of Voice over IP (VoIP) calls by external call-control elements known as Media Gateway Controllers (MGCs) or Call Agents (CAs). |
| <b>Reference</b>            | <a href="http://www.packetizer.com/rfc/rfc3435/">http://www.packetizer.com/rfc/rfc3435/</a>   |
| <b>Global ID</b>            | L7:62   |
| <b>ID</b>                   | 62  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 2427,2727   |
| TCP Port                    | 2427,2428,2727  |
| 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>             | voice-and-video   |
| <b>Sub Category</b>         | control-and-signaling   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | signaling. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | -   |

# MICOM-PFS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | micom-pfs   |
| <b>Full Name</b>            | micom-pfs   |
| <b>Description</b>          | Registered with IANA on port 490 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>            | L4:490  |
| <b>ID</b>                   | 404   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 490   |
| TCP Port                    | 490   |
| 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> | -   |

# MICP

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | micp   |
| <b>Full Name</b>            | Mobile Internetworking Control Protocol  |
| <b>Description</b>          | The Mobile Internetworking Control Protocol is used by the MSSs (Mobile Support Stations) to exchange control information, and by the MHs (mobile hosts) to signal to their MSSs that they have changed cells. |
| <b>Reference</b>            | <a href="http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.30.8911">http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.30.8911</a>  |
| <b>Global ID</b>            | L3:95  |
| <b>ID</b>                   | 849  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | -  |
| IP Protocol                 | 95   |
| <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> | -  |



# MICROMUSE-LM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | micromuse-lm  |
| <b>Full Name</b>            | Micromuse-lm  |
| <b>Description</b>          | Registered with IANA on port 1534 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>            | L4:1534   |
| <b>ID</b>                   | 702   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 1534  |
| TCP Port                    | 1534  |
| 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> | -   |

# MICROSOFTDS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | microsoftds   |
| <b>Full Name</b>            | Microsoft-DS  |
| <b>Description</b>          | Microsoft-DS is a port that replaces the Windows NetBIOS ports, for all versions of Windows after NT, as the preferred port for carrying Windows file sharing and other services. |
| <b>Reference</b>            | <a href="http://support.microsoft.com/default.aspx?scid=kb;en-us;832017">http://support.microsoft.com/default.aspx?scid=kb;en-us;832017</a>                                       |
| <b>Global ID</b>            | L4:445  |
| <b>ID</b>                   | 98  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 445   |
| TCP Port                    | 445   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | netbios-group   |
| <b>Business Relevance</b>   | default   |
| <b>Category</b>             | file-sharing  |
| <b>Sub Category</b>         | file-transfer   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | bulk-data   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | tcp,udp   |

# MIKOGO

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mikogo  |
| <b>Full Name</b>            | Mikogo  |
| <b>Description</b>          | mikogo is an online meeting and desktop sharing software that provides web conferencing between users, in addition to file transfer, whiteboard, instant chat and other facilities. |
| <b>Reference</b>            | <a href="http://www.mikogo.com/">http://www.mikogo.com/</a>   |
| <b>Global ID</b>            | L7:514  |
| <b>ID</b>                   | 1450  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| 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>            | Yes   |
| <b>Traffic-class</b>        | multimedia-conferencing. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns,quic   |

# MINDTOUCH

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mindtouch   |
| <b>Full Name</b>            | MindTouch   |
| <b>Description</b>          | MindTouch enables a team to create, publish, and edit content, and then structure the content within a responsive user interface. |
| <b>Reference</b>            | <a href="https://mindtouch.com/">https://mindtouch.com/</a>   |
| <b>Global ID</b>            | L7:1245   |
| <b>ID</b>                   | 1245  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | business-relevant   |
| <b>Category</b>             | business-and-productivity-tools   |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | Yes   |
| <b>Traffic-class</b>        | transactional-data  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | http,dns,ssl  |

# MINT-COM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mint-com                                      |
| <b>Full Name</b>            | Mint.com                                      |
| <b>Description</b>          | Mint.com - Web-based personal finance tool.   |
| <b>Reference</b>            | <a href="http://mint.com">http://mint.com</a> |
| <b>Global ID</b>            | L7:759  |
| <b>ID</b>                   | 1689  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353                                       |
| TCP Port                    | 53,80,443,5353                                |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Category</b>             | browsing                                      |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns,quic                             |

# MIT-DOV

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mit-dov   |
| <b>Full Name</b>            | MIT Dover Spooler   |
| <b>Description</b>          | Registered with IANA on port 91 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>            | L4:91   |
| <b>ID</b>                   | 962   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 91  |
| TCP Port                    | 91  |
| 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>             | business-and-productivity-tools   |
| <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> | -   |

# MIT-ML-DEV

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mit-ml-dev  |
| <b>Full Name</b>            | MIT ML Device   |
| <b>Description</b>          | Registered with IANA on port 83 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>            | L4:83   |
| <b>ID</b>                   | 956   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 83  |
| TCP Port                    | 83  |
| 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> | -   |

# MIXI

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mixi  |
| <b>Full Name</b>            | Mixi  |
| <b>Description</b>          | Mixi is an online Japanese social networking service.                                   |
| <b>Reference</b>            | <a href="http://www.apple.com/softwareupdate/">http://www.apple.com/softwareupdate/</a> |
| <b>Global ID</b>            | L7:592  |
| <b>ID</b>                   | 1531  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5222,5353  |
| TCP Port                    | 53,80,443,5222,5353   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | No  |
| IPv6 Support                | No  |
| <b>Application Group</b>    | -   |
| <b>Business Relevance</b>   | business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.                     |
| <b>Category</b>             | -   |
| <b>Sub Category</b>         | -   |
| <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> | http,ssl,xmpp-client,dns,quic   |



# MLB-COM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mlb-com   |
| <b>Full Name</b>            | Official Major League Baseball                                      |
| <b>Description</b>          | Official Major League Baseball - Web Portal for Sports news update. |
| <b>Reference</b>            | <a href="http://mlb.com">http://mlb.com</a>                         |
| <b>Global ID</b>            | L7:754  |
| <b>ID</b>                   | 1684  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business relevance</b>   | business-irrelevant   |
| <b>Category</b>             | browsing  |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | transactional-data  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns,quic   |

# MOBILE

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mobile  |
| <b>Full Name</b>            | IP Mobility   |
| <b>Description</b>          | Mobile IP (also known as IP mobility) is an Internet Engineering Task Force (IETF) standard communications protocol that is designed to allow mobile device users to move from one network to another while maintaining a permanent IP address. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc5944">http://tools.ietf.org/html/rfc5944</a>   |
| <b>Global ID</b>            | L3:55   |
| <b>ID</b>                   | 809   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | 55  |
| <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>               | Yes   |
| <b>Underlying Protocols</b> | -   |

# MOBILEIP-AGENT

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mobileip-agent  |
| <b>Full Name</b>            | Mobile IP Agent   |
| <b>Description</b>          | Mobile IP (or IP mobility) is an Internet Engineering Task Force(IETF) standard communications protocol that is designed to allow mobile device users to move from one network to another while maintaining a permanent IP address. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc5944">http://tools.ietf.org/html/rfc5944</a>   |
| <b>Global ID</b>            | L4:434  |
| <b>ID</b>                   | 349   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 434   |
| TCP Port                    | 434   |
| 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>         | routing-protocol  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | netwrok-control. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | -   |

## MOBILIP-MN

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mobilip-mn  |
| <b>Full Name</b>            | MobilIP-MN  |
| <b>Description</b>          | Registered with IANA on port 435 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>            | L4:435  |
| <b>ID</b>                   | 350   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 435   |
| TCP Port                    | 435   |
| 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> | -   |

# MOBILITYSRV

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mobilitysrv   |
| <b>Full Name</b>            | mobilitysrv   |
| <b>Description</b>          | Mobility XE protocol                                      |
| <b>Reference</b>            | -   |
| <b>Global ID</b>            | L4:6997   |
| <b>ID</b>                   | 1386  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 6997  |
| TCP Port                    | 6997  |
| 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> | -   |

# MODBUS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | modbus  |
| <b>Full Name</b>            | Modbus TCP/IP   |
| <b>Description</b>          | Modbus is a standard communication protocol for connecting industrial electronic devices, Modbus TCP/IP used the Modbus instruction set and wraps TCP/IP around it. |
| <b>Reference</b>            | <a href="http://www.modbus.org/docs/Modbus_Messaging_Implementation_Guide_V1_0b.pdf">http://www.modbus.org/docs/Modbus_Messaging_Implementation_Guide_V1_0b.pdf</a> |
| <b>Global ID</b>            | L7:555  |
| <b>ID</b>                   | 1491  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| 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>               | Yes   |
| <b>Underlying Protocols</b> | -   |

# MONDEX

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mondex  |
| <b>Full Name</b>            | Mondex  |
| <b>Description</b>          | Mondex is a smart card electronic cash system. The main protocol of Mondex implements electronic cash transfer, using either a device (wallet) with two slots, or an Internet connection. |
| <b>Reference</b>            | <a href="http://vsr.sourceforge.net/mondex.htm">http://vsr.sourceforge.net/mondex.htm</a>   |
| <b>Global ID</b>            | L4:471  |
| <b>ID</b>                   | 385   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 471   |
| TCP Port                    | 471   |
| 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>         | epayment  |
| <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> | -   |

# MONGO

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mongo   |
| <b>Full Name</b>            | Mongo   |
| <b>Description</b>          | Mongo is a leading NoSQL database designed with both scalability and developer agility in mind. Instead of storing your data in tables and rows as you would with a relational database, MongoDB stores JSON-like documents with dynamic schemas. |
| <b>Reference</b>            | <a href="https://www.mongodb.org/">https://www.mongodb.org/</a>   |
| <b>Global ID</b>            | L4:27017  |
| <b>ID</b>                   | 1751  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| 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>             | database  |
| <b>Sub Category</b>         | enterprise-transactional-apps   |
| <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> | -   |



# MONITOR

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | monitor   |
| <b>Full Name</b>            | Monitor   |
| <b>Description</b>          | Registered with IANA on port 561 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>            | L4:561  |
| <b>ID</b>                   | 476   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 561   |
| TCP Port                    | 561   |
| 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> | -   |

# MONSTER-COM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | monster-com   |
| <b>Full Name</b>            | Monster.com   |
| <b>Description</b>          | Monster.com - Online job search portal.             |
| <b>Reference</b>            | <a href="http://monster.com">http://monster.com</a> |
| <b>Global ID</b>            | L7:785  |
| <b>ID</b>                   | 1713  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353                                      |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Category</b>             | browsing  |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns,quic                                   |

# MORTGAGEWARE

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mortgageware  |
| <b>Full Name</b>            | Mortgageware  |
| <b>Description</b>          | Registered with IANA on port 367 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>            | L4:367  |
| <b>ID</b>                   | 283   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 367   |
| TCP Port                    | 367   |
| 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>             | business-and-productivity-tools   |
| <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> | -   |

## MPEG2-TS

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mpeg2-ts   |
| <b>Full Name</b>            | MPEG-2 Transport Stream  |
| <b>Description</b>          | MPEG2-TS (MPEG2 transport stream, MTS or TS) is a standard format for transmission and storage of audio, video, and Program and System Information Protocol (PSIP) data. It is used in broadcast systems such as DVB, ATSC and IPTV. |
| <b>Reference</b>            | <a href="http://mpeg.chiariglione.org/standards/mpeg-2">http://mpeg.chiariglione.org/standards/mpeg-2</a>  |
| <b>Global ID</b>            | L7:610   |
| <b>ID</b>                   | 1549   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | -  |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | Other  |
| <b>Business Relevance</b>   | business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Category</b>             | consumer-messaging   |
| <b>Sub Category</b>         | consumer-video-streaming   |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | No   |
| <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> | -  |

# MPLS-IN-IP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mpls-in-ip  |
| <b>Full Name</b>            | MPLS-in-IP  |
| <b>Description</b>          | Multiprotocol Label Switching (MPLS) is a mechanism in high-performance telecommunications networks that directs data from one network node to the next based on short path labels rather than long network addresses, avoiding complex lookups in a routing table. |
| <b>Reference</b>            | <a href="http://www.ietf.org/rfc/rfc4023">http://www.ietf.org/rfc/rfc4023</a>   |
| <b>Global ID</b>            | L3:137  |
| <b>ID</b>                   | 1235  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | 137   |
| <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> | -   |

## MPM-FLAGS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mpm-flags   |
| <b>Full Name</b>            | MPM FLAGS Protocol  |
| <b>Description</b>          | Registered with IANA on port 44 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>            | L4:44   |
| <b>ID</b>                   | 924   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 44  |
| TCP Port                    | 44  |
| 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> | -   |

# MPM-SND

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mpm-snd   |
| <b>Full Name</b>            | MPM [default send]  |
| <b>Description</b>          | Registered with IANA on port 46 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>            | L4:46   |
| <b>ID</b>                   | 926   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 46  |
| TCP Port                    | 46  |
| 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> | -   |

# MPM

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mpm  |
| <b>Full Name</b>            | Message Processing Module  |
| <b>Description</b>          | Message Processing Module (MPM) is part of the Internet message system. It is responsible for routing and delivering messages. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc759">http://tools.ietf.org/html/rfc759</a>  |
| <b>Global ID</b>            | L4:45  |
| <b>ID</b>                   | 925  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 45   |
| TCP Port                    | 45   |
| 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> | -  |



# MPP

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mpp  |
| <b>Full Name</b>            | Netix Message Posting Protocol   |
| <b>Description</b>          | Message Posting Protocol (MPP) is a network protocol that is used for posting messages from a computer to a mail service host. It is based on 2 basic structures: command and reply. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc1204">http://tools.ietf.org/html/rfc1204</a>  |
| <b>Global ID</b>            | L4:218   |
| <b>ID</b>                   | 1115   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 218  |
| TCP Port                    | 218  |
| 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> | -  |

# MPTN

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mptn  |
| <b>Full Name</b>            | Multiprotocol Transport Network   |
| <b>Description</b>          | The Multiprotocol Transport Networking (MPTN) architecture is a general solution to providing interconnectivity for applications. The MPTN architecture provides a protocol-independent system interface that includes most functions provided by existing transport protocols. |
| <b>Reference</b>            | <a href="http://www.ieee-icnp.org/1993/papers/1993-2.pdf">http://www.ieee-icnp.org/1993/papers/1993-2.pdf</a>   |
| <b>Global ID</b>            | L4:397  |
| <b>ID</b>                   | 312   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 397   |
| TCP Port                    | 397   |
| 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>             | industrial-protocols  |
| <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> | -   |

# MQTT

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mqtt  |
| <b>Full Name</b>            | MQTT  |
| <b>Description</b>          | MQTT (Message Queuing Telemetry Transport) is a lightweight broker-based publish/subscribe messaging protocol. It is designed for constrained devices and low-bandwidth, high-latency or unreliable networks. |
| <b>Reference</b>            | <a href="http://mqtt.org/">http://mqtt.org/</a>   |
| <b>Global ID</b>            | L7:1233   |
| <b>ID</b>                   | 1233  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | default   |
| <b>Category</b>             | other   |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | voip-telephony  |
| <b>Tunnel</b>               | Yes   |
| <b>Underlying Protocols</b> | -   |

# MRM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mrm   |
| <b>Full Name</b>            | Multicast Routing Monitor   |
| <b>Description</b>          | The Multicast Routing Monitor (MRM) is a feature in Cisco products. It is a management diagnostic tool that provides network fault detection and isolation in a large multicast routing infrastructure. It is designed to notify a network administrator of multicast routing problems in near real time. |
| <b>Reference</b>            | <a href="http://www.cisco.com/en/US/docs/ios/12_1/iproute/configuration/guide/1cdtools.html">http://www.cisco.com/en/US/docs/ios/12_1/iproute/configuration/guide/1cdtools.html</a>   |
| <b>Global ID</b>            | L4:679  |
| <b>ID</b>                   | 587   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 679   |
| TCP Port                    | 679   |
| 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> | -   |

## MS-DYNAMICS-CRM-ONLINE

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-dynamics-crm-online  |
| <b>Full Name</b>            | Microsoft CRM Dynamics Online   |
| <b>Description</b>          | Microsoft CRM Dynamics Online is a customer relationship software package delivered as a cloud service. It provides sales and marketing services and allows customers to customize the product using a .NET framework |
| <b>Reference</b>            | <a href="http://crm.dynamics.com/en-us/on-demand">http://crm.dynamics.com/en-us/on-demand</a>   |
| <b>Global ID</b>            | L7:508  |
| <b>ID</b>                   | 1443  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| 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>            | Yes   |
| <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> | ssl,dns,quic  |

# MS-IIS

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | ms-iis   |
| <b>Full Name</b>            | MS RPC IIS   |
| <b>Description</b>          | Microsoft Internet Information Services (IIS) is a web server application and set of feature extension modules created by Microsoft for use with Microsoft Windows. The underlying protocol is Microsoft Remote Procedure Call (MS RPC). |
| <b>Reference</b>            | <a href="http://www.iis.net/">http://www.iis.net/</a>  |
| <b>Global ID</b>            | L7:482   |
| <b>ID</b>                   | 1411   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | -  |
| 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>         | client-server  |
| <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> | ms-rpc   |

# MS-LIVE-ACCOUNTS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-live-accounts  |
| <b>Full Name</b>            | Microsoft Windows Live Services Authentication                      |
| <b>Description</b>          | Ms-live-accounts is used for login to various microsoft services.   |
| <b>Reference</b>            | <a href="http://explore.live.com/">http://explore.live.com/</a>     |
| <b>Global ID</b>            | L7:498  |
| <b>ID</b>                   | 1434  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ms-cloud-group  |
| <b>Business Relevance</b>   | business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only. |
| <b>Category</b>             | browsing  |
| <b>Sub Category</b>         | authentication-services   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | Yes   |
| <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> | ssl,http,dns,quic   |

## MS-LYNC-AUDIO

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-lync-audio   |
| <b>Full Name</b>            | Skype for Business (MS-Lync) Audio  |
| <b>Description</b>          | Skype for Business (formerly Microsoft Lync) is a communications and collaboration platform that brings together an experience inspired by Skype with enterprise-grade security, compliance and control. It offers features including presence, IM, voice and video calls, and online meetings. Since it is built right in to Microsoft Office, initiating chats, calls and meetings is an integrated experience within Office. This protocol classifies the audio traffic of this app. |
| <b>Reference</b>            | <a href="http://www.skype.com/en/business/">http://www.skype.com/en/business/</a>   |
| <b>Global ID</b>            | L7:559  |
| <b>ID</b>                   | 1496  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 3478  |
| TCP Port                    | 3478  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ms-lync-group   |
| <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>         | voice-video-chat-collaboration  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | voip-telephony. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,stun-nat,rtp  |



## MS-LYNC-CONTROL

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | ms-lync-control  |
| <b>Full Name</b>            | Skype for Business (MS-Lync) Control   |
| <b>Description</b>          | Skype for Business (formerly Microsoft Lync) is a communications and collaboration platform that brings together an experience inspired by Skype with enterprise-grade security, compliance, and control. Features include presence, IM, voice and video calls, and online meetings. Because it is built into Microsoft Office, initiating chats, calls, and meetings is an integrated experience within Office. |
| <b>Reference</b>            | <a href="http://www.skype.com/en/business/">http://www.skype.com/en/business/</a>  |
| <b>Global ID</b>            | L7:1059  |
| <b>ID</b>                   | 1059   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 5060,5061  |
| TCP Port                    | 443,5060,5061  |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | ms-lync-group  |
| <b>Business Relevance</b>   | business-relevant  |
| <b>Category</b>             | voice-and-video  |
| <b>Sub Category</b>         | control-and-signaling  |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | Yes  |
| <b>Traffic-class</b>        | signaling  |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | ms-lync,sip-tls,ssl,sip  |

# MS-LYNC-MEDIA

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-lync-media   |
| <b>Full Name</b>            | Microsoft Lync Media  |
| <b>Description</b>          | Microsoft Lync Media is the audio and video calls support in Microsoft Lync. Based on STUN and RTP. |
| <b>Reference</b>            | <a href="http://lync.microsoft.com">http://lync.microsoft.com</a>                                   |
| <b>Global ID</b>            | L7:532  |
| <b>ID</b>                   | 1467  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | No  |
| IPv6 Support                | No  |
| <b>Application Group</b>    | ms-lync-group   |
| <b>Business Relevance</b>   | default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Category</b>             | business-and-productivity-tools   |
| <b>Sub Category</b>         | voice-video-chat-collaboration  |
| <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> | -   |

# MS-LYNC

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-lync   |
| <b>Full Name</b>            | Skype for Business (MS-Lync)  |
| <b>Description</b>          | Skype for Business (formerly Microsoft Lync) is a communications and collaboration platform that brings together an experience inspired by Skype with enterprise-grade security, compliance and control. It offers features including presence, IM, voice and video calls, and online meetings. Since it is built right in to Microsoft Office, initiating chats, calls and meetings is an integrated experience within Office. |
| <b>Reference</b>            | <a href="http://www.skype.com/en/business/">http://www.skype.com/en/business/</a>   |
| <b>Global ID</b>            | L7:531  |
| <b>ID</b>                   | 1466  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,3478,5353  |
| TCP Port                    | 53,80,443,3478,5353   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ms-lync-group   |
| <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>         | voice-video-chat-collaboration  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | Yes   |
| <b>Traffic-class</b>        | multimedia-conferencing. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | http,ssl,stun-nat,dns,quic  |

## MS-LYNC-VIDEO

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-lync-video   |
| <b>Full Name</b>            | Skype for Business (MS-Lync) Video  |
| <b>Description</b>          | Skype for Business (formerly Microsoft Lync) is a communications and collaboration platform that brings together an experience inspired by Skype with enterprise-grade security, compliance and control. It offers features including presence, IM, voice and video calls, and online meetings. Since it is built right in to Microsoft Office, initiating chats, calls and meetings is an integrated experience within Office. This protocol classifies the video traffic of this app. |
| <b>Reference</b>            | <a href="http://www.skype.com/en/business/">http://www.skype.com/en/business/</a>   |
| <b>Global ID</b>            | L7:560  |
| <b>ID</b>                   | 1497  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 3478  |
| TCP Port                    | 3478  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ms-lync-group   |
| <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>         | voice-video-chat-collaboration  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | multimedia-conferencing. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,stun-nat,rtp  |

# MS-NETLOGON

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | ms-netlogon  |
| <b>Full Name</b>            | MS RPC Netlogon  |
| <b>Description</b>          | The Net Logon service verifies logon requests, and it registers, authenticates, and locates domain controllers. To maintain backward compatibility Net Logon manages replication of the user account database to back-up domain controllers running Windows NT 4.0 and earlier. It is based on Microsoft Remote Procedure Call (MS RPC). |
| <b>Reference</b>            | <a href="http://technet.microsoft.com/en-us/library/cc962284.aspx">http://technet.microsoft.com/en-us/library/cc962284.aspx</a>  |
| <b>Global ID</b>            | L7:483   |
| <b>ID</b>                   | 1412   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | -  |
| 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> | ms-rpc   |

## MS-OCS-FILE-TRANSFER

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | ms-ocs-file-transfer   |
| <b>Full Name</b>            | Microsoft Office Communications Server and File Transfer   |
| <b>Description</b>          | Microsoft Office Communications Server and File Transfer is used by Microsoft Office Communicator (an instant messaging software) for file transfer. |
| <b>Reference</b>            | <a href="http://technet.microsoft.com/en-us/office/ocs/bb267356.aspx">http://technet.microsoft.com/en-us/office/ocs/bb267356.aspx</a>                |
| <b>Global ID</b>            | L4:6891  |
| <b>ID</b>                   | 1356   |
| <b>Known Mappings</b>       |  |
| UDP Port                    |  |
| TCP Port                    | 6891   |
| 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> | -  |

## MS-OFFICE-365

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-office-365   |
| <b>Full Name</b>            | Microsoft Office 365  |
| <b>Description</b>          | Microsoft Office 365 is a commercial software plus services that offers the Microsoft Office suite of desktop applications as well as hosted versions of Microsoft's Server products delivered and accessed over the Internet |
| <b>Reference</b>            | <a href="http://www.microsoft.com/en-us/office365/online-software.aspx">http://www.microsoft.com/en-us/office365/online-software.aspx</a>   |
| <b>Global ID</b>            | L7:495  |
| <b>ID</b>                   | 1431  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ms-cloud-group  |
| <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>            | Yes   |
| <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> | ssl,http,dns,quic   |

# MS-OFFICE-WEB-APPS

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | ms-office-web-apps   |
| <b>Full Name</b>            | Microsoft Office Web Applications  |
| <b>Description</b>          | Microsoft Office Web Apps is the web-based version of the Microsoft Office productivity suite. It includes the web-based versions of Microsoft Word, Microsoft Excel, Microsoft PowerPoint and Microsoft OneNote. The web applications allow users to access their documents within a web browser and collaborate with other users online. |
| <b>Reference</b>            | <a href="http://office.microsoft.com/en-us/web-apps/">http://office.microsoft.com/en-us/web-apps/</a>  |
| <b>Global ID</b>            | L7:563   |
| <b>ID</b>                   | 1500   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 53,5353  |
| TCP Port                    | 53,80,443,5353   |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | ms-cloud-group   |
| <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>         | rich-media-http-content  |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | Yes  |
| <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> | ssl,http,dns,quic  |



# MS-OLAP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-olap   |
| <b>Full Name</b>            | Microsoft OLAP  |
| <b>Description</b>          | Online Analytical Processing (OLAP) is part of the Microsoft SQL Server database management system. It is a technology that is used to organize large business databases in order to support business intelligence and swiftly answer multi-dimensional analytical (MDA) queries. |
| <b>Reference</b>            | <a href="http://msdn.microsoft.com/en-us/library/dd197437.aspx#BMsOnlineAnalyticalProcessing">http://msdn.microsoft.com/en-us/library/dd197437.aspx#BMsOnlineAnalyticalProcessing</a>   |
| <b>Global ID</b>            | L4:2393   |
| <b>ID</b>                   | 686   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 2393  |
| TCP Port                    | 2393  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | sqlsvr-group  |
| <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>         | database  |
| <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> | -   |

## MS-ROME

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-rome   |
| <b>Full Name</b>            | Microsoft Rome  |
| <b>Description</b>          | Registered with IANA on port 569 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>            | L4:569  |
| <b>ID</b>                   | 484   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 569   |
| TCP Port                    | 569   |
| 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> | -   |

# MS-RPC

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-rpc  |
| <b>Full Name</b>            | Microsoft Remote Procedure Call   |
| <b>Description</b>          | Microsoft Remote Procedure Call (MS-RPC) is an interprocess communication (IPC) mechanism that enables data exchange and invocation of functionality residing in a different process. That process can be on the same computer, on the local area network (LAN) or across the Internet. |
| <b>Reference</b>            | <a href="http://technet.microsoft.com/en-us/library/cc958781.aspx">http://technet.microsoft.com/en-us/library/cc958781.aspx</a>   |
| <b>Global ID</b>            | L7:1310   |
| <b>ID</b>                   | 1310  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| 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>         | 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> | -   |

# MS-SERVICES

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-services   |
| <b>Full Name</b>            | Microsoft Services  |
| <b>Description</b>          | MS-Services is a set of tools, APIs, and web services used by Microsoft applications. |
| <b>Reference</b>            | <a href="http://www.microsoft.com/">http://www.microsoft.com/</a>                     |
| <b>Global ID</b>            | L7:777  |
| <b>ID</b>                   | 1737  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ms-cloud-group  |
| <b>Business Relevance</b>   | default   |
| <b>Category</b>             | other   |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | Yes   |
| <b>Traffic-class</b>        | transactional-data  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns,quic   |

# MS-SHUTTLE

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-shuttle  |
| <b>Full Name</b>            | Microsoft Shuttle   |
| <b>Description</b>          | Registered with IANA on port 568 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>            | L4:568  |
| <b>ID</b>                   | 483   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 568   |
| TCP Port                    | 568   |
| 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> | -   |

# MS-SMS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-sms  |
| <b>Full Name</b>            | MS-RPC System Management Server   |
| <b>Description</b>          | Systems Management Server (SMS) is a systems management software product made by Microsoft for managing large groups of Windows-based computer systems. SMS provides remote control, patch management, software distribution, and hardware and software inventory. Its based on Microsoft Remote Procedure Call (MS RPC). |
| <b>Reference</b>            | <a href="http://technet.microsoft.com/en-us/library/cc751130.aspx">http://technet.microsoft.com/en-us/library/cc751130.aspx</a>   |
| <b>Global ID</b>            | L7:484  |
| <b>ID</b>                   | 1413  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | 80,2701,2702,2703,2704  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | default   |
| <b>Category</b>             | software-updates  |
| <b>Sub Category</b>         | enterprise-sw-deployment-tools  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | bulk-data   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | http  |

# MS-SQL-M

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-sql-m  |
| <b>Full Name</b>            | Microsoft SQL Monitor   |
| <b>Description</b>          | Microsoft SQL Monitor uses the SQL Server Resolution Protocol. It is an application-layer request/response protocol that facilitates connectivity to a database server and provides for Communication endpoint information and Database instance enumeration. |
| <b>Reference</b>            | <a href="http://msdn.microsoft.com/en-us/library/cc219703(v=prot.10)">http://msdn.microsoft.com/en-us/library/cc219703(v=prot.10)</a>   |
| <b>Global ID</b>            | L4:1434   |
| <b>ID</b>                   | 685   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 1434  |
| TCP Port                    | 1434  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | sqlsvr-group  |
| <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>         | database  |
| <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> | -   |

# MS-STREAMING

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-streaming  |
| <b>Full Name</b>            | Microsoft Media Server  |
| <b>Description</b>          | Microsoft Media Server (MMS) is Microsoft's proprietary network streaming protocol used to transfer unicast data in Windows Media Services. |
| <b>Reference</b>            | <a href="http://msdn.microsoft.com/en-us/library/cc239490.aspx">http://msdn.microsoft.com/en-us/library/cc239490.aspx</a>                   |
| <b>Global ID</b>            | L4:1755   |
| <b>ID</b>                   | 1355  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 1755  |
| TCP Port                    | 1755  |
| 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> | -   |



# MS-TEAMS

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | ms-teams   |
| <b>Full Name</b>            | Microsoft Teams  |
| <b>Description</b>          | Microsoft Teams, a platform that combines workplace chat, meetings, notes, and attachments, integrates with the Microsoft Office 365 subscription office productivity suite, including Microsoft Office and Skype. |
| <b>Reference</b>            | <a href="https://products.office.com/en-us/microsoft-teams/group-chat-software">https://products.office.com/en-us/microsoft-teams/group-chat-software</a>  |
| <b>Global ID</b>            | L7:1208  |
| <b>ID</b>                   | 1208   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 53,5353  |
| TCP Port                    | 53,80,443,5353   |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | ms-cloud-group   |
| <b>Business Relevance</b>   | business-relevant  |
| <b>Category</b>             | voice-and-video  |
| <b>Sub Category</b>         | enterprise-media-conferencing  |
| <b>P2P Technology</b>       | Yes  |
| <b>Encrypted</b>            | Yes  |
| <b>Traffic-class</b>        | multimedia-conferencing  |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | dns,ssl,http   |

# MS-TEAMS-AUDIO

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-teams-audio  |
| <b>Full Name</b>            | Microsoft Teams Audio   |
| <b>Description</b>          | Microsoft Teams: audio portion of video chat or voice call.   |
| <b>Reference</b>            | <a href="https://products.office.com/en-us/microsoft-teams/group-chat-software">https://products.office.com/en-us/microsoft-teams/group-chat-software</a> |
| <b>Global ID</b>            | L7:1214   |
| <b>ID</b>                   | 1214  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ms-cloud-group  |
| <b>Business Relevance</b>   | business-relevant   |
| <b>Category</b>             | voice-and-video   |
| <b>Sub Category</b>         | enterprise-media-conferencing   |
| <b>P2P Technology</b>       | Yes   |
| <b>Encrypted</b>            | Yes   |
| <b>Traffic-class</b>        | multimedia-conferencing   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ms-teams-media  |

# MS-TEAMS-MEDIA

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-teams-media  |
| <b>Full Name</b>            | Microsoft Teams Media   |
| <b>Description</b>          | Microsoft Teams: video or audio portion of a call.  |
| <b>Reference</b>            | <a href="https://news.microsoft.com/microsoft-teams/">https://news.microsoft.com/microsoft-teams/</a> |
| <b>Global ID</b>            | L7:1213   |
| <b>ID</b>                   | 1213  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 3478  |
| TCP Port                    | 3478  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ms-cloud-group  |
| <b>Business Relevance</b>   | business-relevant   |
| <b>Category</b>             | voice-and-video   |
| <b>Sub Category</b>         | enterprise-media-conferencing   |
| <b>P2P Technology</b>       | Yes   |
| <b>Encrypted</b>            | Yes   |
| <b>Traffic-class</b>        | multimedia-conferencing   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ms-teams,rtp,stun-nat   |

# MS-TEAMS-VIDEO

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-teams-video  |
| <b>Full Name</b>            | Microsoft Teams Video   |
| <b>Description</b>          | Microsoft Teams: video portion of video chat.   |
| <b>Reference</b>            | <a href="https://products.office.com/en-us/microsoft-teams/group-chat-software">https://products.office.com/en-us/microsoft-teams/group-chat-software</a> |
| <b>Global ID</b>            | L7:1209   |
| <b>ID</b>                   | 1209  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ms-cloud-group  |
| <b>Business Relevance</b>   | business-relevant   |
| <b>Category</b>             | voice-and-video   |
| <b>Sub Category</b>         | enterprise-media-conferencing   |
| <b>P2P Technology</b>       | Yes   |
| <b>Encrypted</b>            | Yes   |
| <b>Traffic-class</b>        | multimedia-conferencing   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ms-teams-media  |

# MS-UPDATE

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-update   |
| <b>Full Name</b>            | Microsoft Windows Update Service  |
| <b>Description</b>          | Microsoft Windows Update Service provides updates for the Microsoft Windows operating system and its installed components.                  |
| <b>Reference</b>            | <a href="http://windows.microsoft.com/en-us/windows/help/windows-update">http://windows.microsoft.com/en-us/windows/help/windows-update</a> |
| <b>Global ID</b>            | L7:497  |
| <b>ID</b>                   | 1432  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353   |
| TCP Port                    | 53,80,443,5353  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | default   |
| <b>Category</b>             | software-updates  |
| <b>Sub Category</b>         | os-updates  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | Yes   |
| <b>Traffic-class</b>        | bulk-data   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns  |

# MS-WBT

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-wbt  |
| <b>Full Name</b>            | Remote Desktop Protocol   |
| <b>Description</b>          | Remote Desktop Protocol (RDP) is a protocol developed by Microsoft. It was formerly known as Microsoft Windows Based Terminal (MS WBT). By default, RDP communication travels over TCP port 3389. The most common use of this protocol is the Remote Desktop Connection or Terminal Services client. The protocol is an extension of the ITU-T T.128 application sharing protocol. Clients exist for most versions of Microsoft Windows (including Windows Mobile), Linux, Unix, Mac OS X and other modern operating systems. |
| <b>Reference</b>            | <a href="http://technet.microsoft.com/en-us/library/cc960973.aspx">http://technet.microsoft.com/en-us/library/cc960973.aspx</a>   |
| <b>Global ID</b>            | L4:3389   |
| <b>ID</b>                   | 689   |
| <b>Known Mappings</b>       |   |
| UDP Port                    |   |
| TCP Port                    | 3389  |
| 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>        | multimedia-conferencing. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | -   |

# MS-WIN-DNS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ms-win-dns  |
| <b>Full Name</b>            | MS RPC Windows DNS  |
| <b>Description</b>          | Microsoft Windows Internet Name Service (WINS) name resolution method is the implementation of NetBios name system services provided in Microsoft Windows operating systems. The underlying protocol is Microsoft Remote Procedure Call (MS RPC). |
| <b>Reference</b>            | <a href="http://technet.microsoft.com/en-us/library/cc784180%28WS.10%29.aspx">http://technet.microsoft.com/en-us/library/cc784180%28WS.10%29.aspx</a>   |
| <b>Global ID</b>            | L7:481  |
| <b>ID</b>                   | 1410  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| 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>         | naming-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> | ms-rpc  |

# MSDP

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | msdp   |
| <b>Full Name</b>            | Multicast Source Discovery Protocol  |
| <b>Description</b>          | Multicast Source Discovery Protocol (MSDP) is a multicast routing protocol belonging to the Protocol Independent Multicast (PIM) family. MSDP interconnects multiple IPv4 PIM Sparse-Mode (PIM-SM) domains, which enables PIM-SM to have Rendezvous Point (RP) redundancy and inter-domain multicasting. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc3618">http://tools.ietf.org/html/rfc3618</a>  |
| <b>Global ID</b>            | L4:639   |
| <b>ID</b>                   | 548  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 639  |
| TCP Port                    | 639  |
| 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>         | 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> | -  |



# MSEXCH-ROUTING

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | msexch-routing  |
| <b>Full Name</b>            | MS Exchange Routing   |
| <b>Description</b>          | MS Exchange Routing is Used by Microsoft Exchange servers to exchange routing information.                            |
| <b>Reference</b>            | <a href="http://technet.microsoft.com/en-us/library/bb123812">http://technet.microsoft.com/en-us/library/bb123812</a> |
| <b>Global ID</b>            | L4:691  |
| <b>ID</b>                   | 599   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 691   |
| TCP Port                    | 691   |
| 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> | -   |

## MSFT-GC-SSL

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | msft-gc-ssl   |
| <b>Full Name</b>            | Microsoft Global Catalog with LDAP/SSL  |
| <b>Description</b>          | The Microsoft Global Catalog enables searching for Active Directory objects in any domain in the forest without the need for subordinate referrals, and users can find objects of interest quickly without having to know what domain holds the object. |
| <b>Reference</b>            | <a href="http://technet.microsoft.com/en-us/library/how-global-catalog-servers-work(v=ws.10).aspx">http://technet.microsoft.com/en-us/library/how-global-catalog-servers-work(v=ws.10).aspx</a>   |
| <b>Global ID</b>            | L4:3269   |
| <b>ID</b>                   | 688   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 3269  |
| TCP Port                    | 3269  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | sqlsvr-group  |
| <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>         | database  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | Yes   |
| <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> | ssl,spdy  |

# MSFT-GC

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | msft-gc   |
| <b>Full Name</b>            | Microsoft Global Catalog  |
| <b>Description</b>          | The Microsoft Global Catalog is a distributed data repository that contains a searchable, partial representation of every object in every domain in a multidomain ActiveDirectory Domain Services (ADDS) forest. The global catalog is stored on domain controllers that have been designated as global catalog servers and is distributed through multimaster replication. |
| <b>Reference</b>            | <a href="http://technet.microsoft.com/en-us/library/cc728188(v=ws.10).aspx">http://technet.microsoft.com/en-us/library/cc728188(v=ws.10).aspx</a>   |
| <b>Global ID</b>            | L4:3268   |
| <b>ID</b>                   | 687   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 3268  |
| TCP Port                    | 3268  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | sqlsvr-group  |
| <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>         | database  |
| <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> | -   |

# MSG-AUTH

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | msg-auth  |
| <b>Full Name</b>            | msg-auth  |
| <b>Description</b>          | Registered with IANA on port 31 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>            | L4:31   |
| <b>ID</b>                   | 916   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 31  |
| TCP Port                    | 31  |
| 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> | -   |

# MSG-ICP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | msg-icp   |
| <b>Full Name</b>            | msg-icp   |
| <b>Description</b>          | Registered with IANA on port 29 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>            | L4:29   |
| <b>ID</b>                   | 913   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 29  |
| TCP Port                    | 29  |
| 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> | -   |

# MSN-MESSENGER-FT

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | msn-messenger-ft  |
| <b>Full Name</b>            | DEPRECATED, traffic will not match  |
| <b>Description</b>          | MSN Messenger (recently renamed to Windows Live Messenger) is an instant messaging client created by Microsoft that is designed to Work with Windows XP, Vista and Windows 7 etc. In June 2009 Microsoft reported the service attracted over 330 million active users each month.MSN-Messenger-Video represents the MSN-Messenger-Video network traffic. MSN-video traffic underlying protocol is rtp over stun traffic. Windows live messenger was replaced by Skype except for China. |
| <b>Reference</b>            | <a href="http://explore.live.com/messenger">http://explore.live.com/messenger</a>   |
| <b>Global ID</b>            | L7:309  |
| <b>ID</b>                   | 1202  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | 443,1080,1863,3389  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | msn-messenger-group   |
| <b>Business Relevance</b>   | business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Category</b>             | consumer-file-sharing   |
| <b>Sub Category</b>         | file-transfer   |
| <b>P2P Technology</b>       | No  |
| <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> | ssl,spdy,socks,msn-messenger,ms-wbt   |

## MSN-MESSENGER-VIDEO

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | msn-messenger-video  |
| <b>Full Name</b>            | DEPRECATED, traffic will not match   |
| <b>Description</b>          | Msn-Messenger-Video represents the video traffic within the MS-Live-Messenger client. Windows live messenger was replaced by Skype except for China. |
| <b>Reference</b>            | <a href="http://explore.live.com/messenger">http://explore.live.com/messenger</a>  |
| <b>Global ID</b>            | L7:323   |
| <b>ID</b>                   | 1216   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | 443,1080,1863,3389   |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | No   |
| IPv6 Support                | No   |
| <b>Application Group</b>    | msn-messenger-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>         | voice-video-chat-collaboration   |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | Yes  |
| <b>Traffic-class</b>        | multimedia-conferencing. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> |  |

# MSN-MESSENGER

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | msn-messenger  |
| <b>Full Name</b>            | Windows Live Messenger   |
| <b>Description</b>          | MSN-Messenger (recently renamed to Windows Live Messenger) software is used to connect clients to each other. The clients can chat and make audio and video calls with one-another. The software uses multiple underlying protocols: HTTP, SOCKS and MS-WBT. |
| <b>Reference</b>            | <a href="http://explore.live.com/messenger">http://explore.live.com/messenger</a>  |
| <b>Global ID</b>            | L7:75  |
| <b>ID</b>                   | 75   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | 80,443,1080,1863,3389  |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | msn-messenger-group  |
| <b>Business Relevance</b>   | business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Category</b>             | instant-messaging  |
| <b>Sub Category</b>         | voice-video-chat-collaboration   |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | Yes  |
| <b>Traffic-class</b>        | multimedia-conferencing. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | ssl,http,socks,ms-wbt  |



# MSNP

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | msnp   |
| <b>Full Name</b>            | Microsoft Notification Protocol  |
| <b>Description</b>          | Microsoft Notification Protocol (MSNP) is an instant messaging protocol developed by Microsoft for use by the .NET Messenger Service and the instant messaging clients that connect to it, such as Windows Live Messenger, its earlier incarnations MSN Messenger and Windows Messenger, and Microsoft Messenger for Mac. Third-party clients such as Pidgin and Trillian can also communicate using the protocol. |
| <b>Reference</b>            | <a href="http://msnpiki.msnfanatic.com/">http://msnpiki.msnfanatic.com/</a>  |
| <b>Global ID</b>            | L4:1863  |
| <b>ID</b>                   | 713  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 1863   |
| TCP Port                    | 1863   |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | msn-messenger-group  |
| <b>Business Relevance</b>   | business-irrelevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Category</b>             | instant-messaging  |
| <b>Sub Category</b>         | voice-video-chat-collaboration   |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | No   |
| <b>Traffic-class</b>        | multimedia-conferencing. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | -  |

# MSP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | msp   |
| <b>Full Name</b>            | SEND  |
| <b>Description</b>          | The Message Send Protocol (SEND) is used to send a short message to a given user on a given terminal on a given host. |
| <b>Reference</b>            | <a href="http://www.ietf.org/rfc/rfc1312">http://www.ietf.org/rfc/rfc1312</a>   |
| <b>Global ID</b>            | L4:18   |
| <b>ID</b>                   | 907   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 18  |
| TCP Port                    | 18  |
| 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> | -   |

# MTP

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mtp  |
| <b>Full Name</b>            | Multicast Transport Protocol   |
| <b>Description</b>          | Media Transfer Protocol is a set of custom extensions to the Picture Transfer Protocol (PTP). PTP is used for downloading photographs from digital cameras, whereas MTP adds support for the transfer of music files on digital audio players, media files on portable media players and personal information on personal digital assistants. Media Transfer Protocol (commonly referred to as MTP) is part of the "Windows Media" framework and thus closely related to Windows Media Player. Windows Vista has built-in support for MTP. Support for Media Transfer Protocol in Windows XP requires the installation of Windows Media Player 10 or higher. Mac and Linux systems have software packages to support it. |
| <b>Reference</b>            | <a href="http://en.wikipedia.org/wiki/Media_Transfer_Protocol">http://en.wikipedia.org/wiki/Media_Transfer_Protocol</a>  |
| <b>Global ID</b>            | L3:92  |
| <b>ID</b>                   | 846  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | -  |
| TCP Port                    | -  |
| IP Protocol                 | 92   |
| <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> | -  |

# MTV

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mtv   |
| <b>Full Name</b>            | MTV   |
| <b>Description</b>          | MTV - Official website for MTV.             |
| <b>Reference</b>            | <a href="http://mtv.com">http://mtv.com</a> |
| <b>Global ID</b>            | L7:619                                      |
| <b>ID</b>                   | 1193  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 53,5353                                     |
| TCP Port                    | 53,80,443,5353                              |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other                                       |
| <b>Category</b>             | browsing                                    |
| <b>Sub Category</b>         | other                                       |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | ssl,http,dns,quic                           |

# MULTILING-HTTP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | multiling-http  |
| <b>Full Name</b>            | Multiling HTTP  |
| <b>Description</b>          | Registered with IANA on port 777 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>            | L4:777  |
| <b>ID</b>                   | 650   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 777   |
| TCP Port                    | 777   |
| 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> | -   |

# MULTIPLEX

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | multiplex   |
| <b>Full Name</b>            | Network Innovations Multiplex   |
| <b>Description</b>          | Registered with IANA on port 171 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>            | L4:171  |
| <b>ID</b>                   | 1016  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 171   |
| TCP Port                    | 171   |
| 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> | -   |

# MUMPS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mumps   |
| <b>Full Name</b>            | Plus Fives MUMPS  |
| <b>Description</b>          | Registered with IANA on port 188 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>            | L4:188  |
| <b>ID</b>                   | 1032  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 188   |
| TCP Port                    | 188   |
| 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>         | database  |
| <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> | -   |

# MUX

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mux   |
| <b>Full Name</b>            | Multiplexing  |
| <b>Description</b>          | The Multiplexing Protocol is defined to allow the combining of transmission units of different higher level protocols in one transmission unit of a lower level protocol. |
| <b>Reference</b>            | <a href="http://www.rfc-editor.org/ien/ien90.txt">http://www.rfc-editor.org/ien/ien90.txt</a>   |
| <b>Global ID</b>            | L3:18   |
| <b>ID</b>                   | 772   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | 18  |
| <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> | -   |



## MY-JABBER-FT

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | my-jabber-ft  |
| <b>Full Name</b>            | My Jabber FT  |
| <b>Description</b>          | My Jabber File Transfer (My Jabber FT) is a feature that allows users to transfer files with each other. MyJabber interacts with AIM, ICQ, MSN, and Yahoo, and it has the ability to create conference rooms and person-to-person text talk. Transfers with Jabber can either be done direct client-to-client or via a proxy. |
| <b>Reference</b>            | <a href="http://www.myjabber.com/">http://www.myjabber.com/</a>   |
| <b>Global ID</b>            | L7:312  |
| <b>ID</b>                   | 1205  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | No  |
| IPv6 Support                | No  |
| <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> | -   |

## MYLEX-MAPD

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | mylex-mapd  |
| <b>Full Name</b>            | Mylex-mapd  |
| <b>Description</b>          | Registered with IANA on port 467 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>            | L4:467  |
| <b>ID</b>                   | 381   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 467   |
| TCP Port                    | 467   |
| 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>             | net-admin   |
| <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> | -   |

# MYSQL

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | mysql  |
| <b>Full Name</b>            | mySQL  |
| <b>Description</b>          | MySQL is a relational database management system (RDBMS) that runs as a server, providing multi-user access to a number of databases. The SQL phrase stands for Structured Query Language. |
| <b>Reference</b>            | <a href="http://www.mysql.com/">http://www.mysql.com/</a>  |
| <b>Global ID</b>            | L4:3306  |
| <b>ID</b>                   | 711  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 3306   |
| TCP Port                    | 3306   |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | sqlsvr-group   |
| <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>         | database   |
| <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> | -  |

