



# KAKAO-TALK through LWAPP

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# KAKAO-TALK

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | kakao-talk  |
| <b>Full Name</b>            | Kakao-Talk  |
| <b>Description</b>          | Kakao-Talk is a free mobile messenger application for smartphones with free multimedia messaging and free call features. Kakao-Talk was released by Kakao corporation which is based in Seoul, South Korea. It is available on most common mobile operating systems including IOS, Android and also available on PC by syncing between your PC and mobile device. |
| <b>Reference</b>            | <a href="http://www.kakao.com/talk/">http://www.kakao.com/talk/</a>   |
| <b>Global ID</b>            | L7:579  |
| <b>ID</b>                   | 1518  |
| <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>    | -   |
| <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>        | multimedia-conferencing. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | http,kakao,ssl,rtcp,dns   |



# KAKAO-SERVICES

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | kakao-services   |
| <b>Full Name</b>            | Kakao-Services   |
| <b>Description</b>          | kakao-services is a set of tools and APIs used by Kakao applications such as: kakao story, kakao music, kakao website and so on. |
| <b>Reference</b>            | <a href="http://www.kakao.com/">http://www.kakao.com/</a>  |
| <b>Global ID</b>            | L7:583   |
| <b>ID</b>                   | 1522   |
| <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>    | -  |
| <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>        | bulk-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   |

# KALI

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | kali   |
| <b>Full Name</b>            | IPX network emulator for DOS and Windows   |
| <b>Description</b>          | Kali is an IPX network emulator for DOS and Windows, enabling legacy multiplayer games to work over a modern TCP/IP network such as the Internet. Later versions of the software also functioned as a server browser for games that natively supported TCP/IP. |
| <b>Reference</b>            | <a href="http://www.kali.net/">http://www.kali.net/</a>  |
| <b>Global ID</b>            | L4:2213  |
| <b>ID</b>                   | 718  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 2213   |
| TCP Port                    | 2213   |
| 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>        | bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | -  |



# KAYAK-COM

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | kayak-com  |
| <b>Full Name</b>            | Kayak  |
| <b>Description</b>          | Kayak - Online Flight and Hotel reservation/deals website. |
| <b>Reference</b>            | <a href="http://kayak.com">http://kayak.com</a>            |
| <b>Global ID</b>            | L7:708   |
| <b>ID</b>                   | 1638   |
| <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   |



# KAZAA2

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | kazaa2  |
| <b>Full Name</b>            | Kazaa2  |
| <b>Description</b>          | Kazaa is an online music subscription service that is based on second generation peer-to-peer technology FastTracker. |
| <b>Reference</b>            | <a href="http://www.kazaa.com/#!/about">http://www.kazaa.com/#!/about</a>   |
| <b>Global ID</b>            | L7:59   |
| <b>ID</b>                   | 59  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | fasttrack-group   |
| <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> | -   |

# K-BLOCK

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | k-block   |
| <b>Full Name</b>            | K-Block   |
| <b>Description</b>          | Registered with IANA on port 287 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>            | L4:287  |
| <b>ID</b>                   | 1147  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 287   |
| TCP Port                    | 287   |
| 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> | -   |

## KERBEROS-ADM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | kerberos-adm  |
| <b>Full Name</b>            | Kerberos Administration   |
| <b>Description</b>          | Kerberos is a network authentication protocol. The protocol is used to verify identities over the internet using a trusted third party. Extensions of the protocol also use the exchange of cryptographic certification of a public key. Usually the protocol uses TCP/UDP ports 88/749 as default. |
| <b>Reference</b>            | <a href="http://www.ietf.org/rfc/rfc4120">http://www.ietf.org/rfc/rfc4120</a>   |
| <b>Global ID</b>            | L4:749  |
| <b>ID</b>                   | 623   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 749   |
| TCP Port                    | 749   |
| 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> | -   |



# KERBEROS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | kerberos  |
| <b>Full Name</b>            | Kerberos  |
| <b>Description</b>          | Kerberos is a network authentication protocol. The protocol is used to verify identities over the internet using a trusted third party. Extensions of the protocol also use the exchange of cryptographic certification of a public key. Usually the protocol uses TCP/UDP ports 88/749 as default. |
| <b>Reference</b>            | <a href="http://www.ietf.org/rfc/rfc4120.txt">http://www.ietf.org/rfc/rfc4120.txt</a>   |
| <b>Global ID</b>            | L4:88   |
| <b>ID</b>                   | 21  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 88  |
| TCP Port                    | 88  |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | kerberos-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>         | 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> | -   |



# KEYHOLETV

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | keyholetv  |
| <b>Full Name</b>            | KeyHoleTV  |
| <b>Description</b>          | KeyHoleTV is an online television portal that links to a limited selection of Japanese television channels, radio stations, and user-made channels. It has clients on Windows, Mac, Linux and iOS. |
| <b>Reference</b>            | <a href="http://www.oiseyer.com/index-e.php">http://www.oiseyer.com/index-e.php</a>  |
| <b>Global ID</b>            | L7:591   |
| <b>ID</b>                   | 1530   |
| <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>    | 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>       | Yes  |
| <b>Encrypted</b>            | Yes  |
| <b>Traffic-class</b>        | multimedia-streaming. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | http,ssl,dns   |

# KEYSERVER

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | keyserver   |
| <b>Full Name</b>            | Key Server  |
| <b>Description</b>          | A key server is a computer that receives and then serves existing cryptographic keys to users or other programs. The users' programs can be working on the same network as the key server or on another networked computer. |
| <b>Reference</b>            | <a href="http://en.wikipedia.org/wiki/Key_server_(cryptographic)">http://en.wikipedia.org/wiki/Key_server_(cryptographic)</a>   |
| <b>Global ID</b>            | L4:584  |
| <b>ID</b>                   | 498   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 584   |
| TCP Port                    | 584   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Category</b>             | internet-privacy  |
| <b>Sub Category</b>         | authentication-services   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | -   |



# KICKSTARTER

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | kickstarter  |
| <b>Full Name</b>            | Kickstarter  |
| <b>Description</b>          | Kickstarter - Platform for creative projects with funding goal and deadline. |
| <b>Reference</b>            | <a href="http://kickstarter.com">http://kickstarter.com</a>                  |
| <b>Global ID</b>            | L7:686   |
| <b>ID</b>                   | 1616   |
| <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   |

# KIS

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | kis   |
| <b>Full Name</b>            | KIS Protocol  |
| <b>Description</b>          | Registered with IANA on port 186 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>            | L4:186  |
| <b>ID</b>                   | 1029  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 186   |
| TCP Port                    | 186   |
| 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> | -   |

# KLOGIN

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | klogin  |
| <b>Full Name</b>            | Klogin  |
| <b>Description</b>          | Registered with IANA on port 543 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>            | L4:543  |
| <b>ID</b>                   | 87  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 543   |
| TCP Port                    | 543   |
| 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>         | 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> | -   |

# KNET-CMP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | knet-cmp  |
| <b>Full Name</b>            | KNET/VM Command/Message Protocol  |
| <b>Description</b>          | Registered with IANA on port 157 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>            | L4:157  |
| <b>ID</b>                   | 1003  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 157   |
| TCP Port                    | 157   |
| 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> | -   |

# KONSPIRE2B

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | konspire2b  |
| <b>Full Name</b>            | konspire2b  |
| <b>Description</b>          | konspire2b p2p network  |
| <b>Reference</b>            |   |
| <b>Global ID</b>            | L4:6085   |
| <b>ID</b>                   | 1190  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 6085  |
| TCP Port                    | 6085  |
| 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> | -   |

# KPASSWD

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | kpasswd   |
| <b>Full Name</b>            | kpasswd   |
| <b>Description</b>          | Kerberos change-password protocol (kpasswd) is a password changing service that is implemented on hosts in Kerberos realms.                 |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/draft-ietf-cat-kerb-chg-password-02">http://tools.ietf.org/html/draft-ietf-cat-kerb-chg-password-02</a> |
| <b>Global ID</b>            | L4:464  |
| <b>ID</b>                   | 378   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 464   |
| TCP Port                    | 464   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | kerberos-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>         | authentication-services   |
| <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> | -   |

# KRYPTOLAN

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | kryptolan   |
| <b>Full Name</b>            | kryptolan   |
| <b>Description</b>          | LAN/WAN Krypto (LWK) is a infrastructure that provides two secure functions; transport protection and data object protection. It was developed by Sectra. |
| <b>Reference</b>            | <a href="http://liu.diva-portal.org/smash/get/diva2:16958/FULLTEXT01">http://liu.diva-portal.org/smash/get/diva2:16958/FULLTEXT01</a>                     |
| <b>Global ID</b>            | L4:398  |
| <b>ID</b>                   | 313   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 398   |
| TCP Port                    | 398   |
| 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> | -   |

# KHELL

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | kshell  |
| <b>Full Name</b>            | kshell  |
| <b>Description</b>          | Registered with IANA on port 544 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>            | L4:544  |
| <b>ID</b>                   | 88  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 544   |
| TCP Port                    | 544   |
| 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>         | terminal  |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | ops-admin-management. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | -   |



# KURO

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | kuro   |
| <b>Full Name</b>            | Kuro   |
| <b>Description</b>          | The Kuro protocol is used by the Kuro file-sharing application popular in Japan. |
| <b>Reference</b>            | <a href="http://www.kuro.cn">http://www.kuro.cn</a>                              |
| <b>Global ID</b>            | L7:437   |
| <b>ID</b>                   | 801  |
| <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>             | voice-and-video  |
| <b>Sub Category</b>         | 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> | -  |

# L2TP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | l2tp  |
| <b>Full Name</b>            | Layer 2 Tunneling Protocol  |
| <b>Description</b>          | Layer 2 Tunneling Protocol (L2TP) is a tunneling protocol used to support virtual private networks (VPNs) or as part of the delivery of services by ISPs. It does not provide any encryption or confidentiality by itself; it relies on an encryption protocol that it passes within the tunnel to provide privacy. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc2661">http://tools.ietf.org/html/rfc2661</a>   |
| <b>Global ID</b>            | L4:1701   |
| <b>ID</b>                   | 22  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 1701  |
| TCP Port                    |   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| 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>             | net-admin   |
| <b>Sub Category</b>         | tunneling-protocols   |
| <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> | -   |



# LA-MAINT

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | la-maint  |
| <b>Full Name</b>            | IMP Logical Address Maintenance   |
| <b>Description</b>          | Registered with IANA on port 51 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>            | L4:51   |
| <b>ID</b>                   | 931   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 51  |
| TCP Port                    | 51  |
| 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> | -   |

# LANSERVER

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | lanserver   |
| <b>Full Name</b>            | lanserver   |
| <b>Description</b>          | Registered with IANA on port 637 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>            | L4:637  |
| <b>ID</b>                   | 546   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 637   |
| TCP Port                    | 637   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ldap-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> | -   |

# LARP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | larp  |
| <b>Full Name</b>            | Locus Address Resolution Protocol   |
| <b>Description</b>          | Registered with IANA as IP Protocol 91  |
| <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>            | L3:91   |
| <b>ID</b>                   | 845   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | 91  |
| <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> | -   |

# LDAP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ldap  |
| <b>Full Name</b>            | Lightweight Directory Access Protocol   |
| <b>Description</b>          | Lightweight Directory Access Protocol (LDAP) is a protocol designed to access distributed directory services. Typically it uses port 389 for TCP and UDP. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc4510">http://tools.ietf.org/html/rfc4510</a>   |
| <b>Global ID</b>            | L4:389  |
| <b>ID</b>                   | 23  |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 389   |
| TCP Port                    | 389   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | ldap-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>         | 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> | -   |

# LDP

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | ldp  |
| <b>Full Name</b>            | Label Distribution Protocol  |
| <b>Description</b>          | Label Distribution Protocol (LDP) is a protocol in which routers capable of Multiprotocol Label Switching (MPLS) exchange label mapping information. LDP is used to build and maintain LSP databases that are used to forward traffic through MPLS networks. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc5036">http://tools.ietf.org/html/rfc5036</a>  |
| <b>Global ID</b>            | L4:646   |
| <b>ID</b>                   | 555  |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 646  |
| TCP Port                    | 646  |
| 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> | -  |





# LEAF-1

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | leaf-1  |
| <b>Full Name</b>            | Leaf-1  |
| <b>Description</b>          | The Leaf File Access Protocol is one of the first protocols to enable remote access to files.                     |
| <b>Reference</b>            | <a href="http://infolab.stanford.edu/TR/CS-TR-86-1137.html">http://infolab.stanford.edu/TR/CS-TR-86-1137.html</a> |
| <b>Global ID</b>            | L3:25   |
| <b>ID</b>                   | 779   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | 25  |
| <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> | -   |

## LEAF-2

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | leaf-2  |
| <b>Full Name</b>            | Leaf-2  |
| <b>Description</b>          | The Leaf File Access Protocol is one of the first protocols to enable remote access to files.                             |
| <b>Reference</b>            | <a href="http://infolab.stanford.edu/TR/CS-TR-86-1137.html.pdf">http://infolab.stanford.edu/TR/CS-TR-86-1137.html.pdf</a> |
| <b>Global ID</b>            | L3:26   |
| <b>ID</b>                   | 780   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | -   |
| TCP Port                    | -   |
| IP Protocol                 | 26  |
| <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> | -   |

# LEGENT-1

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | legent-1  |
| <b>Full Name</b>            | Legent Corporation  |
| <b>Description</b>          | Registered with IANA on port 373 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>            | L4:373  |
| <b>ID</b>                   | 289   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 373   |
| TCP Port                    | 373   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Category</b>             | business-and-productivity-tools   |
| <b>Sub Category</b>         | other   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | No  |
| <b>Traffic-class</b>        | ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | -   |

## LEGENT-2

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | legent-2  |
| <b>Full Name</b>            | Legent Corporation  |
| <b>Description</b>          | Registered with IANA on port 374 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>            | L4:374  |
| <b>ID</b>                   | 290   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 374   |
| TCP Port                    | 374   |
| 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> | -   |

# LETV-COM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | letv-com                                      |
| <b>Full Name</b>            | LeTV  |
| <b>Description</b>          | LeTV - Chinese online video portal.           |
| <b>Reference</b>            | <a href="http://letv.com">http://letv.com</a> |
| <b>Global ID</b>            | L7:771  |
| <b>ID</b>                   | 1701  |
| <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                                  |

# LINKEDIN

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | linkedin   |
| <b>Full Name</b>            | LinkedIn   |
| <b>Description</b>          | LinkedIn is a business-oriented social networking site. It is mainly used for professional networking. |
| <b>Reference</b>            | <a href="http://www.linkedin.com/">http://www.linkedin.com/</a>  |
| <b>Global ID</b>            | L7:527   |
| <b>ID</b>                   | 1463   |
| <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. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.                                    |
| <b>Category</b>             | social-networking  |
| <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   |

# LIVEDOOR

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | livedoor  |
| <b>Full Name</b>            | Livedoor  |
| <b>Description</b>          | Livedoor - Japanese Internet service provider.        |
| <b>Reference</b>            | <a href="http://livedoor.com">http://livedoor.com</a> |
| <b>Global ID</b>            | L7:631  |
| <b>ID</b>                   | 1560  |
| <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  |



# LIVEPERSON

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | liveperson  |
| <b>Full Name</b>            | LivePerson  |
| <b>Description</b>          | LivePerson - Online Marketing and Web analytics service provider. |
| <b>Reference</b>            | <a href="http://liveperson.com">http://liveperson.com</a>         |
| <b>Global ID</b>            | L7:801  |
| <b>ID</b>                   | 1729  |
| <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  |

# LIVESTATION

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | livestation   |
| <b>Full Name</b>            | LiveStation   |
| <b>Description</b>          | Livestation is a platform for distributing live television and radio broadcasts over a data network. It works on Windows, Macintosh, Linux and iPhone. The underlying protocols are RTMP, HTTP and SSL. |
| <b>Reference</b>            | <a href="http://www.livestation.com/">http://www.livestation.com/</a>   |
| <b>Global ID</b>            | L7:480  |
| <b>ID</b>                   | 1405  |
| <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. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Category</b>             | voice-and-video   |
| <b>Sub Category</b>         | streaming   |
| <b>P2P Technology</b>       | No  |
| <b>Encrypted</b>            | Yes   |
| <b>Traffic-class</b>        | multimedia-streaming. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Tunnel</b>               | No  |
| <b>Underlying Protocols</b> | http,ssl,rtmp,dns   |

# LIVESTRONG-COM

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | livestrong-com  |
| <b>Full Name</b>            | LiveStrong.com  |
| <b>Description</b>          | LiveStrong.com - Health and fitness information.          |
| <b>Reference</b>            | <a href="http://livestrong.com">http://livestrong.com</a> |
| <b>Global ID</b>            | L7:780  |
| <b>ID</b>                   | 1708  |
| <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  |

## LJK-LOGIN

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | ljk-login   |
| <b>Full Name</b>            | ljk-login   |
| <b>Description</b>          | Registered with IANA on port 472 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>            | L4:472  |
| <b>ID</b>                   | 386   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 472   |
| TCP Port                    | 472   |
| 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> | -   |

# LOCKD

|                           |  |
|---------------------------|--|
| <b>Name/CLI Keyword</b>   | lockd  |
| <b>Full Name</b>          | NFS Lock Daemon Manager  |
| <b>Description</b>        | NFS file locking is mainly provided by the RPC-based network lock manager (NLM) service. The program implementing NLM is usually called rpc.lockd, and must be running on both the NFS client and server machine. When a user process wants to lock a part or the whole of a file from an NFS-mounted volume, the kernel sends the lock request to the local lock daemon. This is usually done using the KLM (Kernel Lock Manager) protocol. |
| <b>Reference</b>          | <a href="http://www.swb.de/personal/okir/lockd.html">http://www.swb.de/personal/okir/lockd.html</a>  |
| <b>Global ID</b>          | L4:4045  |
| <b>ID</b>                 | 96   |
| <b>Known Mappings</b>     |  |
| UDP Port                  | 4045   |
| TCP Port                  | 4045   |
| 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> | - |
|-----------------------------|---|

## LOCUS-CON

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | locus-con   |
| <b>Full Name</b>            | Locus PC-Interface Conn Server  |
| <b>Description</b>          | Registered with IANA on port 127 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>            | L4:127  |
| <b>ID</b>                   | 996   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 127   |
| TCP Port                    | 127   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Category</b>             | other   |
| <b>Sub Category</b>         | network-protocol  |
| <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> | -   |

## LOCUS-MAP

|                             |   |
|-----------------------------|---|
| <b>Name/CLI Keyword</b>     | locus-map   |
| <b>Full Name</b>            | Locus PC-Interface Net Map Server   |
| <b>Description</b>          | Registered with IANA on port 125 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>            | L4:125  |
| <b>ID</b>                   | 994   |
| <b>Known Mappings</b>       |   |
| UDP Port                    | 125   |
| TCP Port                    | 125   |
| IP Protocol                 | -   |
| <b>IP Version</b>           |   |
| IPv4 Support                | Yes   |
| IPv6 Support                | Yes   |
| <b>Application Group</b>    | other   |
| <b>Business Relevance</b>   | business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Category</b>             | other   |
| <b>Sub Category</b>         | network-protocol  |
| <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> | -   |



# LOGIN

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | login  |
| <b>Full Name</b>            | rlogin   |
| <b>Description</b>          | The rlogin facility provides a remote-echoed, locally flow-controlled virtual terminal with proper flushing of output. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/rfc1282">http://tools.ietf.org/html/rfc1282</a>                                    |
| <b>Global ID</b>            | L4:513   |
| <b>ID</b>                   | 428  |
| <b>Known Mappings</b>       |  |
| UDP Port                    |  |
| TCP Port                    | 513  |
| IP Protocol                 | -  |
| <b>IP Version</b>           |  |
| IPv4 Support                | Yes  |
| IPv6 Support                | Yes  |
| <b>Application Group</b>    | other  |
| <b>Business Relevance</b>   | business-relevant. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.  |
| <b>Category</b>             | net-admin  |
| <b>Sub Category</b>         | remote-access-terminal   |
| <b>P2P Technology</b>       | No   |
| <b>Encrypted</b>            | No   |
| <b>Traffic-class</b>        | ops-admin-mgmt. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.   |
| <b>Tunnel</b>               | No   |
| <b>Underlying Protocols</b> | -  |

# LOGLOGIC

|                           |  |
|---------------------------|--|
| <b>Name/CLI Keyword</b>   | loglogic   |
| <b>Full Name</b>          | Loglogic   |
| <b>Description</b>        | LogLogic provides enterprise-class log management infrastructure and analysis that enables customers to instantly collect, centralize and analyze their data. The software collects data from both physical and virtual (cloud) sources. It stores, alerts, and reports data to help defend against security risks and threats and to monitor performance. The software typically uses TCP port 4514 for RealTime Viewer and TCP port 11965 for Loglogic Tunnel. |
| <b>Reference</b>          | <a href="http://www.loglogic.com/about">http://www.loglogic.com/about</a>  |
| <b>Global ID</b>          | L4:4514  |
| <b>ID</b>                 | 1351   |
| <b>Known Mappings</b>     |  |
| UDP Port                  |  |
| TCP Port                  | 4514,11965   |
| 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> | - |
|-----------------------------|---|

# LOGMEIN

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | logmein  |
| <b>Full Name</b>            | LogMeIn  |
| <b>Description</b>          | LogMeIn is a remote-access software that allows a user to access a PC through a web browser (logmein.com) or through mobile phones (iPhone and Android). |
| <b>Reference</b>            | <a href="https://secure.logmein.com/welcome/products/">https://secure.logmein.com/welcome/products/</a>  |
| <b>Global ID</b>            | L7:519   |
| <b>ID</b>                   | 1455   |
| <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   |

# LOTUS-NOTES

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | lotus-notes  |
| <b>Full Name</b>            | IBM Lotus Notes  |
| <b>Description</b>          | IBM Lotus Notes provides integrated collaboration functionality, including email, calendaring, contacts management, to do tracking, instant messaging, an office productivity suite (IBM Lotus Symphony), and access to other Lotus Domino applications and databases. |
| <b>Reference</b>            | <a href="http://www-01.ibm.com/software/lotus/notesanddomino/">http://www-01.ibm.com/software/lotus/notesanddomino/</a>  |
| <b>Global ID</b>            | L4:1352  |
| <b>ID</b>                   | 1470   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 1352   |
| TCP Port                    | 1352   |
| 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>            | 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> | -  |



# LWAPP

|                             |  |
|-----------------------------|--|
| <b>Name/CLI Keyword</b>     | lwapp  |
| <b>Full Name</b>            | Lightweight Access Point Protocol  |
| <b>Description</b>          | Lightweight Access Point Protocol (LWAPP) is a protocol that can control multiple Wi-Fi access points at once. This can reduce the amount of time spent on configuring, monitoring or troubleshooting a large network. The system also allows network administrators to closely analyze the network. |
| <b>Reference</b>            | <a href="http://tools.ietf.org/html/RFC5412">http://tools.ietf.org/html/RFC5412</a>  |
| <b>Global ID</b>            | L4:12222   |
| <b>ID</b>                   | 1352   |
| <b>Known Mappings</b>       |  |
| UDP Port                    | 12222,12223  |
| 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>             | 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> | -  |

