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# OBEX

<b>Name/CLI Keyword</b>	obex
<b>Full Name</b>	OBject EXchange
<b>Description</b>	OBject Exchange (OBEX) is a communications protocol that facilitates the exchange of binary objects between devices.
<b>Reference</b>	<a href="http://www.irda.org/">http://www.irda.org/</a>
<b>Global ID</b>	L4:650
<b>ID</b>	559
<b>Known Mappings</b>	
UDP Port	650
TCP Port	650
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>	-

# OBJCALL

<b>Name/CLI Keyword</b>	objcall
<b>Full Name</b>	Tivoli Object Dispatcher
<b>Description</b>	The Tivoli object dispatcher (oserv) is the central driving mechanism for operations in the Tivoli environment. It maintains the Tivoli object database on each system that has Tivoli installed, it routes object calls to the proper systems and objects, and it arranges for the execution of methods that are invoked in the context of objects that reside on the local system.
<b>Reference</b>	<a href="http://publib.boulder.ibm.com/tividd/td/framework/GC32-0807-00/en_US/HTML/troubl09.html">http://publib.boulder.ibm.com/tividd/td/framework/GC32-0807-00/en_US/HTML/troubl09.html</a>
<b>Global ID</b>	L4:94
<b>ID</b>	965
<b>Known Mappings</b>	
UDP Port	94
TCP Port	94
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>	-

# OCBINDER

<b>Name/CLI Keyword</b>	ocbinder
<b>Full Name</b>	OCBinder
<b>Description</b>	Registered with IANA on port 183 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>	L4:183
<b>ID</b>	1026
<b>Known Mappings</b>	
UDP Port	183
TCP Port	183
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>	-

# OCS\_AMU

<b>Name/CLI Keyword</b>	ocs_amu
<b>Full Name</b>	OCS Amu
<b>Description</b>	Registered with IANA on port 429 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>	L4:429
<b>ID</b>	344
<b>Known Mappings</b>	
UDP Port	429
TCP Port	429
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>	-

# OCS\_CMU

<b>Name/CLI Keyword</b>	ocs_cmu
<b>Full Name</b>	OCS_CMU
<b>Description</b>	Registered with IANA on port 428 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>	L4:428
<b>ID</b>	343
<b>Known Mappings</b>	
UDP Port	428
TCP Port	428
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>	-

# OCSERVER

<b>Name/CLI Keyword</b>	ocserver
<b>Full Name</b>	ocserver
<b>Description</b>	Registered with IANA on port 184 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>	L4:184
<b>ID</b>	1027
<b>Known Mappings</b>	
UDP Port	184
TCP Port	184
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>	-



# OCSP

<b>Name/CLI Keyword</b>	ocsp
<b>Full Name</b>	OCSP
<b>Description</b>	OCSP - Online Certificate Status Protocol.
<b>Reference</b>	<a href="https://tools.ietf.org/html/rfc6960">https://tools.ietf.org/html/rfc6960</a>
<b>Global ID</b>	L7:819
<b>ID</b>	1750
<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>	authentication-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

# ODMR

<b>Name/CLI Keyword</b>	odmr
<b>Full Name</b>	On-Demand Mail Relay
<b>Description</b>	On-Demand Mail Relay (ODMR) is an SMTP extension that allows e-mail to be relayed once the recipient has been authenticated. It uses the Extended SMTP (ESMTP) command ATRN, similar to the ETRN command but available for dynamically assigned IP addresses.
<b>Reference</b>	<a href="http://tools.ietf.org/html/rfc2645">http://tools.ietf.org/html/rfc2645</a>
<b>Global ID</b>	L4:366
<b>ID</b>	282
<b>Known Mappings</b>	
UDP Port	366
TCP Port	366
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	smtp-group
<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>	-

# OHMSRV

<b>Name/CLI Keyword</b>	ohimsrv
<b>Full Name</b>	Ohimsrv
<b>Description</b>	Registered with IANA on port 506 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>	L4:506
<b>ID</b>	420
<b>Known Mappings</b>	
UDP Port	506
TCP Port	506
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>	-

# OKCUPID

<b>Name/CLI Keyword</b>	okcupid
<b>Full Name</b>	OkCupid
<b>Description</b>	OkCupid - Online Dating website.
<b>Reference</b>	<a href="http://okccdn.com">http://okccdn.com</a>
<b>Global ID</b>	L7:703
<b>ID</b>	1633
<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

# OLSR

<b>Name/CLI Keyword</b>	olsr
<b>Full Name</b>	Optimized Link State Routing Protocol
<b>Description</b>	The Optimized Link State Routing Protocol (OLSR) is an IP routing protocol optimized for mobile ad-hoc networks, which can also be used on other wireless ad-hoc networks. OLSR is a proactive link-state routing protocol, which uses hello and topology control (TC) messages to discover and then disseminate link state information throughout the mobile ad-hoc network. Individual nodes use this topology information to compute next hop destinations for all nodes in the network using shortest hop forwarding paths.
<b>Reference</b>	<a href="http://tools.ietf.org/html/rfc3626">http://tools.ietf.org/html/rfc3626</a>
<b>Global ID</b>	L4:698
<b>ID</b>	606
<b>Known Mappings</b>	
UDP Port	698
TCP Port	698
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>	-

# OMGINITIALREFS

<b>Name/CLI Keyword</b>	omginitialrefs
<b>Full Name</b>	Omginitialrefs
<b>Description</b>	Registered with IANA on port 900 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>	L4:900
<b>ID</b>	663
<b>Known Mappings</b>	
UDP Port	900
TCP Port	900
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>	-

# OMHS

<b>Name/CLI Keyword</b>	omhs
<b>Full Name</b>	Operations Manager - Health Service
<b>Description</b>	The Health Monitoring Service is used to monitor web services installed in one or multiple sites. The Health Monitoring Service can highlight issues that cause downtime or poor performance, such as unavailable services, long response time, and security breaches.
<b>Reference</b>	<a href="http://msdn.microsoft.com/en-us/library/dd464428.aspx">http://msdn.microsoft.com/en-us/library/dd464428.aspx</a>
<b>Global ID</b>	L4:5723
<b>ID</b>	1388
<b>Known Mappings</b>	
UDP Port	5723
TCP Port	5723
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>	-

# OMSERV

<b>Name/CLI Keyword</b>	omserv
<b>Full Name</b>	Omserv
<b>Description</b>	Registered with IANA on port 764 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>	L4:764
<b>ID</b>	636
<b>Known Mappings</b>	
UDP Port	764
TCP Port	764
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>	-



# ONMUX

<b>Name/CLI Keyword</b>	onmux
<b>Full Name</b>	Onmux
<b>Description</b>	Registered with IANA on port 417 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>	L4:417
<b>ID</b>	332
<b>Known Mappings</b>	
UDP Port	417
TCP Port	417
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>	-

# ONEDRIVE

Table 1: Protocol History

Release	Modification
Protocol Pack 66.0.0	This protocol was introduced.
<b>Name/CLI Keyword</b>	onedrive
<b>Full Name</b>	Microsoft OneDrive
<b>Description</b>	Microsoft OneDrive (formerly known as SkyDrive) is a file hosting service that allows users to upload and sync files to a cloud storage and then access them from a web browser or a mobile application.
<b>Reference</b>	<a href="https://www.microsoft.com/en/microsoft-365/onedrive/online-cloud-storage">https://www.microsoft.com/en/microsoft-365/onedrive/online-cloud-storage</a>
<b>Global ID</b>	L7:1292
<b>ID</b>	1292
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	ms-cloud-group
<b>Business Relevance</b>	business-irrelevant
<b>Category</b>	consumer-internet
<b>Sub Category</b>	consumer-cloud-storage
<b>P2P Technology</b>	False
<b>Encrypted</b>	True
<b>Traffic-class</b>	bulk-data
<b>Tunnel</b>	False
<b>Underlying Protocols</b>	http,ssl,dns

# OPALIS-RDV

<b>Name/CLI Keyword</b>	opalis-rdv
<b>Full Name</b>	opalis-rdv
<b>Description</b>	opalis-rdv, Registered with IANA on port 536 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>	L4:536
<b>ID</b>	454
<b>Known Mappings</b>	
UDP Port	536
TCP Port	536
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>	-

# OPALIS-ROBOT

<b>Name/CLI Keyword</b>	opalis-robot
<b>Full Name</b>	OpalisRobot
<b>Description</b>	OpalisRobot is a comprehensive system management and automation solution. It delivers real-time monitoring, notification, corrective action and event driven job scheduling to provide administrators with proactive management.
<b>Reference</b>	<a href="http://amtsoft.com/opalisrobot/">http://amtsoft.com/opalisrobot/</a>
<b>Global ID</b>	L4:314
<b>ID</b>	1154
<b>Known Mappings</b>	
UDP Port	314
TCP Port	314
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>	-

# OPC-JOB-START

<b>Name/CLI Keyword</b>	opc-job-start
<b>Full Name</b>	IBM Operations Planning and Control Start
<b>Description</b>	Operations Planning and Control (OPC) is part of IBM Tivoli OPC Operations and Administration discipline. Tivoli OPC supports operations management, providing the foundation for enterprise-wide production workload management. Tivoli OPC helps users plan, manage, and automate the production workload, and control a single-image OS/390 system or complex, multivendor networks and systems from a single point of control.
<b>Reference</b>	<a href="http://publib.boulder.ibm.com/tividd/td/OperationsPlanningandControl2.3.html">http://publib.boulder.ibm.com/tividd/td/OperationsPlanningandControl2.3.html</a>
<b>Global ID</b>	L4:423
<b>ID</b>	338
<b>Known Mappings</b>	
UDP Port	423
TCP Port	423
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	industrial-protocols
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# OPC-JOB-TRACK

<b>Name/CLI Keyword</b>	opc-job-track
<b>Full Name</b>	IBM Operations Planning and Control Track
<b>Description</b>	Used by IBM in their Tivoli Operations Planning and Control product for planning, managing, and automating production workloads from a single point of control.
<b>Reference</b>	<a href="http://www.ibm.com/communities/its/infotype-a&amp;type-a&amp;inf=97ENUS227&amp;app=icm&amp;lang=en">http://www.ibm.com/communities/its/infotype-a&amp;type-a&amp;inf=97ENUS227&amp;app=icm&amp;lang=en</a>
<b>Global ID</b>	L4:424
<b>ID</b>	339
<b>Known Mappings</b>	
UDP Port	424
TCP Port	424
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Category</b>	industrial-protocols
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

# OPENPORT

<b>Name/CLI Keyword</b>	openport
<b>Full Name</b>	Openport
<b>Description</b>	Registered with IANA on port 260 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>	L4:26
<b>ID</b>	1132
<b>Known Mappings</b>	
UDP Port	260
TCP Port	260
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>	-

## OPENVMS-SYSIPC

<b>Name/CLI Keyword</b>	openvms-sysipc
<b>Full Name</b>	openvms-sysipc
<b>Description</b>	Registered with IANA on port 557 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>	L4:557
<b>ID</b>	472
<b>Known Mappings</b>	
UDP Port	557
TCP Port	557
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>	-



# OPENVPN

<b>Name/CLI Keyword</b>	openvpn
<b>Full Name</b>	OpenVPN
<b>Description</b>	OpenVPN is a free and open source virtual private network (VPN) program for creating point-to-point or server-to-multiclient encrypted tunnels between host computers. OpenVPN allows peers to authenticate each other using certificates.
<b>Reference</b>	<a href="http://openvpn.net/">http://openvpn.net/</a>
<b>Global ID</b>	L7:455
<b>ID</b>	1314
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	other
<b>Business Relevance</b>	default
<b>Category</b>	layer3-over-ip
<b>Sub Category</b>	tunneling-protocols
<b>P2P Technology</b>	Yes
<b>Encrypted</b>	Yes
<b>Traffic-class</b>	bulk-data
<b>Tunnel</b>	Yes
<b>Underlying Protocols</b>	ssl,dns

# OPSMGR

<b>Name/CLI Keyword</b>	opsmgr
<b>Full Name</b>	Microsoft System Center Operations Manager
<b>Description</b>	Microsoft System Center Operations Manager is a cross-platform data center management system for operating systems and hypervisors. It uses a single interface that shows state, health and performance information of computer systems. It also provides alerts generated according to some availability, performance, configuration or security situation being identified. It works with Microsoft Windows Server and Unix-based hosts.
<b>Reference</b>	<a href="http://www.microsoft.com/en-us/server-cloud/system-center/datacenter-management.aspx">http://www.microsoft.com/en-us/server-cloud/system-center/datacenter-management.aspx</a>
<b>Global ID</b>	L4:1270
<b>ID</b>	1387
<b>Known Mappings</b>	
UDP Port	1270
TCP Port	1270
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>	-

# ORA-SRV

<b>Name/CLI Keyword</b>	ora-srv
<b>Full Name</b>	Oracle TCP/IP Listener
<b>Description</b>	Registered with IANA on port 1525 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>	L4:1525
<b>ID</b>	89
<b>Known Mappings</b>	
UDP Port	1525
TCP Port	1525
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>	-

# ORACLE

<b>Name/CLI Keyword</b>	oracle
<b>Full Name</b>	Oracle
<b>Description</b>	Oracle database software and technology, database management, cloud-engineered systems, and enterprise software.
<b>Reference</b>	<a href="https://www.oracle.com/index.html">https://www.oracle.com/index.html</a>
<b>Global ID</b>	L7:1184
<b>ID</b>	1184
<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>	Yes
<b>Traffic-class</b>	transactional-data
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	http,ssl,dns

# ORACLE-BI

<b>Name/CLI Keyword</b>	oracle-bi
<b>Full Name</b>	Oracle Business Intelligence
<b>Description</b>	Used by Oracle in their Business Intelligence products.
<b>Reference</b>	<a href="http://www.oracle.com/us/solutions/business-analytics/business-intelligence/index.html">http://www.oracle.com/us/solutions/business-analytics/business-intelligence/index.html</a>
<b>Global ID</b>	L4:9703
<b>ID</b>	1359
<b>Known Mappings</b>	
UDP Port	
TCP Port	9703,9704
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>	bulk-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	-

## ORACLE-EBSUITE-UNSECURED

<b>Name/CLI Keyword</b>	oracle-ebsuite-unsecured
<b>Full Name</b>	Oracle E-Business Suite - Un-encrypted Traffic
<b>Description</b>	Oracle E-Business Suite (also known as Applications/Apps or EB-Suite/EBS) consists of a collection of enterprise resource planning (ERP), customer relationship management (CRM), and supply-chain management (SCM) computer applications. The software utilizes Oracle's core relational database management system technology.
<b>Reference</b>	<a href="http://www.oracle.com/us/products/applications/ebusiness/index.html">http://www.oracle.com/us/products/applications/ebusiness/index.html</a>
<b>Global ID</b>	L7:516
<b>ID</b>	1452
<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>	business-and-productivity-tools
<b>Sub Category</b>	other
<b>P2P Technology</b>	No
<b>Encrypted</b>	No
<b>Traffic-class</b>	transactional-data. From Cisco IOS XE 3.16S and IOS 15.5(3)M only.
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	http

# ORACLE-SQLNET

<b>Name/CLI Keyword</b>	oracle-sqlnet
<b>Full Name</b>	SQL*NET
<b>Description</b>	SQL*NET is a client-server middleware used to transfer information between databases and between database to clients.
<b>Reference</b>	<a href="http://www.orafaq.com/wiki/SQL*Net">http://www.orafaq.com/wiki/SQL*Net</a>
<b>Global ID</b>	L4:66
<b>ID</b>	1425
<b>Known Mappings</b>	
UDP Port	
TCP Port	66
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>	-

# ORACL NAMES

<b>Name/CLI Keyword</b>	oraclnames
<b>Full Name</b>	Oracle Names
<b>Description</b>	Oracle Names is a distributed naming service developed to help simplify the setup and administration of global, client/server computing networks. Oracle Names establishes and maintains an integrated system of names servers that work together like a directory service, storing addresses for all the services on a network and making them available to clients wanting to make a connection.
<b>Reference</b>	<a href="http://docs.oracle.com/cd/A58617_01/network.804/a58230/ch6.htm">http://docs.oracle.com/cd/A58617_01/network.804/a58230/ch6.htm</a>
<b>Global ID</b>	L4:1575
<b>ID</b>	695
<b>Known Mappings</b>	
UDP Port	1575
TCP Port	1575
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>	-



# ORACLENET8CMAN

<b>Name/CLI Keyword</b>	oraclenet8cman
<b>Full Name</b>	Oracle Net8 Cman
<b>Description</b>	Oracle Connection Manager, a Net8 component that acts much like a router and provides protocol conversion, connection concentration, and access control.
<b>Reference</b>	<a href="http://dl.acm.org/citation.cfm?id=557584">http://dl.acm.org/citation.cfm?id=557584</a>
<b>Global ID</b>	L4:1630
<b>ID</b>	696
<b>Known Mappings</b>	
UDP Port	1630
TCP Port	1630
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>	-

## ORBIX-CONFIG

<b>Name/CLI Keyword</b>	orbix-config
<b>Full Name</b>	Orbix 2000 Config
<b>Description</b>	Registered with IANA on port 3076 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>	L4:3076
<b>ID</b>	705
<b>Known Mappings</b>	
UDP Port	3076
TCP Port	3076
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	corba-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>	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>	-

## ORBIX-CFG-SSL

<b>Name/CLI Keyword</b>	orbix-cfg-ssl
<b>Full Name</b>	Orbix 2000 Config over SSL
<b>Description</b>	Orbix is a CORBA ORB (Object Request Broker) from Micro Focus which helps programmers build distributed applications. Orbix cfg (config) works over SSL typically on port 3078.
<b>Reference</b>	<a href="http://en.wikipedia.org/wiki/Orbix_(software)">http://en.wikipedia.org/wiki/Orbix_(software)</a>
<b>Global ID</b>	L4:3078
<b>ID</b>	1600
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	corba-group
<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>	Yes
<b>Traffic-class</b>	transactional-data
<b>Tunnel</b>	No
<b>Underlying Protocols</b>	ssl,spdy

## ORBIX-LOC-SSL

<b>Name/CLI Keyword</b>	orbix-loc-ssl
<b>Full Name</b>	Orbix 2000 Locator over SSL
<b>Description</b>	Used by Progree Software Corporation in their Orbix software for enterprise COBRA solutions.
<b>Reference</b>	<a href="http://www.progress.com/en/orbix/index.html">http://www.progress.com/en/orbix/index.html</a>
<b>Global ID</b>	L4:3077
<b>ID</b>	706
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	corba-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>	inter-process-rpc
<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,spdy

# ORBIX-LOCATOR

<b>Name/CLI Keyword</b>	orbix-locator
<b>Full Name</b>	Orbix 2000 Locator
<b>Description</b>	Used by Progree Software Corporation in their Orbix software for enterprise COBRA solutions.
<b>Reference</b>	<a href="http://www.progress.com/en/orbix/index.html">http://www.progress.com/en/orbix/index.html</a>
<b>Global ID</b>	L4:3075
<b>ID</b>	704
<b>Known Mappings</b>	
UDP Port	3075
TCP Port	3075
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	corba-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>	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>	-

## OSCAR-FILETRANSFER

<b>Name/CLI Keyword</b>	oscar-filetransfer
<b>Full Name</b>	OSCAR File Transfer
<b>Description</b>	Open System for CommunicAtion in Realtime (OSCAR) File Transfer traffic classification. This protocol is mainly used by AIM and ICQ application clients.
<b>Reference</b>	<a href="http://web.archive.org/web/20080308233204/http://dev.aol.com/aim/oscar/">http://web.archive.org/web/20080308233204/http://dev.aol.com/aim/oscar/</a>
<b>Global ID</b>	L7:513
<b>ID</b>	1448
<b>Known Mappings</b>	
UDP Port	-
TCP Port	-
IP Protocol	-
<b>IP Version</b>	
IPv4 Support	Yes
IPv6 Support	Yes
<b>Application Group</b>	aol-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>	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>	aol-messenger-audio

# OSPF

<b>Name/CLI Keyword</b>	ospf
<b>Full Name</b>	Open Shortest Path First
<b>Description</b>	Open Shortest Path First (OSPF) is a link state routing protocol that shares the network topology of an Autonomous System between OSPF routers. Each OSPF router maintains a database by calculating Shortest Path Tree algorithm with the link state provided from the OSPF protocol.
<b>Reference</b>	<a href="http://www.ietf.org/rfc/rfc2328.txt">http://www.ietf.org/rfc/rfc2328.txt</a>
<b>Global ID</b>	L3:89
<b>ID</b>	10
<b>Known Mappings</b>	
UDP Port	-
TCP Port	-
IP Protocol	89
<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>	-

# OSU-NMS

<b>Name/CLI Keyword</b>	osu-nms
<b>Full Name</b>	OSU Network Monitoring System
<b>Description</b>	Registered with IANA on port 192 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>	L4:192
<b>ID</b>	1036
<b>Known Mappings</b>	
UDP Port	192
TCP Port	192
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>	-



# OUTBRAIN

<b>Name/CLI Keyword</b>	Outbrain
<b>Full Name</b>	outbrain
<b>Description</b>	Outbrain - Online help for publishers and bloggers.
<b>Reference</b>	<a href="http://outbrain.com">http://outbrain.com</a>
<b>Global ID</b>	L7:637
<b>ID</b>	1566
<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

## OUTLOOK-WEB-SERVICE

<b>Name/CLI Keyword</b>	outlook-web-service
<b>Full Name</b>	Outlook Web Service
<b>Description</b>	Outlook Web Service is a protocol that covers a group of Microsoft's web email services, it includes Outlook email service part of Microsoft Office 365 Business Plan.
<b>Reference</b>	<a href="http://www.outlook.com">http://www.outlook.com</a>
<b>Global ID</b>	L7:550
<b>ID</b>	1484
<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>	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,http,dns,quic