

Oracle® Communications

Session Border Controller – S-Cz10.0.0

Program Documentation – License Document

April 2025

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Product	Subproduct	Licensing Description
Oracle Communications Session Border Controller	Oracle Communications Session Border Controller (base fee) – Integrated Software Option – per Server Metric	<p>Product Editions and Permitted Features</p> <p>This license (available on a per server basis) provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with the base license:</p> <p>ACP (Acme Control Protocol) - Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p>SIP (Session Initiation Protocol) – Enables all SIP functionality including IMS P-CSCF functionality.</p> <p>TLS (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol.</p> <p>HA (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>DOS – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p>IDS (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call</p>

Product	Subproduct	Licensing Description
		<p>admission control) failures.</p> <p>IDS Advanced – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>National Emergency Services (NSEP) - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p>IPFIX interface – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p>Prerequisite Products Acme Packet 3900, 3950, 4900, 4600, 6350, or 6400 platform</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features This license enables a number of concurrent sessions by Oracle Communications Session Border Controller (ISO session capacity) for SIP. This feature license includes the capability to handle endpoint registrations (registration caching) and surrogate registrations.</p> <p>Pre-requisite Products Oracle Communications Session Border Controller (base fee) – Integrated Software Option – per Server Metric</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Peering Session Border Controller – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features This license enables a number of concurrent peering sessions by Oracle Communications Session Border Controller (ISO session capacity) for SIP. This feature license does not include the capability to handle endpoint registrations (registration caching) or surrogate registrations.</p> <p>Pre-requisite Products Oracle Communications Session Border Controller (base fee) – Integrated Software Option – per Server Metric</p> <p>Entitled Products and Restricted Use Licenses This license is only applicable to peering (interconnect)</p>

Product	Subproduct	Licensing Description
	<p>Oracle Communications Transcoding Session Border Controller – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p>Session Border Controller configuration.</p> <p>Product Editions and Permitted Features This license enables a number of concurrent transcoding sessions by Oracle Communications Session Border Controller (ISO session capacity) for SIP protocol in a pooled transcoding configuration. A transcoding session license is consumed when an OCSBC operating in pooled transcoding configuration performs transcoding function for a single session. This feature license does not include royalty-bearing CODEC use which is licensed separately.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 4600, 6350, or 6400 platform with transcoding module(s) <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller (base fee) – Integrated Software Option – per Server Metric <p>Entitled Products and Restricted Use Licenses This license is only applicable to pooled transcoding Session Border Controller configurations.</p>
	<p>Oracle Communications Session Border Controller – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features This license enables a number of concurrent sessions by Oracle Communications Session Border Controller (perpetual session capacity) for SIP. This feature license includes the capability to handle endpoint registrations (registration caching) and surrogate registrations. This license (available on a per network-wide concurrent session basis) also provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with this license:</p> <p>ACP (Acme Control Protocol) - Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p>SIP (Session Initiation Protocol) – Enables all SIP functionality including IMS P-CSCF functionality.</p> <p>TLS (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol.</p> <p><u>Exceptions:</u> Not applicable to SBC VNF. Requires separate TLS license.</p>

Product	Subproduct	Licensing Description
		<p>HA (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>DOS - Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p>IDS (Intrusion Detection) - Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p>IDS Advanced - This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>National Emergency Services (NSEP) - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p>IPFIX interface - The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Acme Packet 3900, 3950, 4900, 4600, 6350, or 6400 platform <p>OR</p> <ul style="list-style-type: none"> • Supported virtualized platform <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Peering Session Border Controller – Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>This license enables a number of concurrent peering sessions by Oracle Communications Session Border Controller (perpetual session capacity) for SIP. This feature license does not include the capability to handle endpoint registrations (registration caching) or surrogate registrations.</p> <p>This license (available on a per network-wide concurrent session basis) also provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The</p>

Product	Subproduct	Licensing Description
		<p>following features are available with this license:</p> <p>ACP (Acme Control Protocol) – Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p>SIP (Session Initiation Protocol) – Enables all SIP functionality including IMS P-CSCF functionality.</p> <p>TLS (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol. <u>Exceptions:</u> Not applicable to SBC VNF. Requires separate TLS license.</p> <p>HA (High Availability) – Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>DOS – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p>IDS (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p>IDS Advanced – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>National Emergency Services (NSEP) – Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p>IPFIX interface – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Acme Packet 3900, 3950, 4900, 4600, 6350, or 6400 platform <p>OR</p> <ul style="list-style-type: none"> • Supported virtualized platform <p>Entitled Products and Restricted Use Licenses</p> <p>This license is only applicable to peering (interconnect) Session Border Controller configurations.</p>

Product	Subproduct	Licensing Description
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Product	Subproduct	Licensing Description
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	<p>Oracle Communications Peering Session Border Controller – Single Server Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>This license enables a number of concurrent peering sessions by Oracle Communications Session Border Controller (perpetual session capacity) for SIP. This feature license does not include the capability to handle endpoint registrations (registration caching) or surrogate registrations.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>This license also provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with this license:</p> <p>ACP (Acme Control Protocol) - Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p>SIP (Session Initiation Protocol) – Enables all SIP functionality including IMS P-CSCF functionality.</p> <p>TLS (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol.</p> <p><u>Exceptions:</u> Not applicable to SBC VNF. Requires separate TLS license.</p> <p>HA (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>DOS – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p>IDS (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p>IDS Advanced – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>National Emergency Services (NSEP) - Enables support for</p>

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		<p>HA (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 4600, 6350, or 6400 platform with transcoding module(s) <p>Entitled Products and Restricted Use Licenses</p> <p>This license is only applicable to pooled transcoding Session Border Controller configurations.</p>
Session Capacity Based Licenses		
	<p>Oracle Communications Session Border Controller, Advanced Media Termination – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features</p> <p>Enables support for handling RTC media, via the following features:</p> <ul style="list-style-type: none"> RTP / RTCP multiplexing (per RFC 5761) ICE lite (per RFC 5245) STUN <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	<p>Oracle Communications Session Border Controller, Advanced Media Termination – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>Enables support for terminating RTC media, via the following features:</p> <ul style="list-style-type: none"> RTP / RTCP multiplexing (per RFC 5761) ICE lite (per RFC 5245) STUN <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border

Product	Subproduct	Licensing Description
		<p>Controller session capacity</p> <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Advanced Media Termination - Single Server Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>Enables support for terminating RTC media, via the following features:</p> <ul style="list-style-type: none"> • RTP / RTCP multiplexing (per RFC 5761) • ICE lite (per RFC 5245) • STUN <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Bidirectional Forwarding Detection - Integrated Software Option - per 50 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features</p> <p>Enables the use of BFD protocol as an alternate High Availability mechanism on the SBC.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller - Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller - Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Bidirectional</p>	<p>Product Editions and Permitted Features</p> <p>Enables the use of BFD protocol as an alternate High</p>

Product	Subproduct	Licensing Description
	Forwarding Detection – Network-Wide Concurrent Session Perpetual	<p>Availability mechanism on the SBC.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, Bidirectional Forwarding Detection – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables the use of BFD protocol as an alternate High Availability mechanism on the SBC.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, Core Features – Integrated Software Option – per 50 Concurrent Sessions Metric	<p>Product Editions and Permitted Features</p> <p>The following features are available with this license:</p> <p>Accounting – Allows the creation of call accounting records using either Radius or Diameter (via the Rf interface), or by collecting the information in flat files that can be stored locally or pushed via FTP to an external server.</p> <p>Load Balancing – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p>QoS – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media.</p> <p>Routing – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This</p>

Product	Subproduct	Licensing Description
		<p>includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements.</p> <p>The following features are included in this license:</p> <ul style="list-style-type: none"> • ENUM Database support • LRT (local route table) • BGCF (Breakout Gateway Control Function) <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	<p>Oracle Communications Session Border Controller, Core Features – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>The following features are available with this license:</p> <p>Accounting – Allows the creation of call accounting records using either Radius or Diameter (via the Rf interface), or by collecting the information in flat files that can be stored locally or pushed via FTP to an external server.</p> <p>Load Balancing – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p>QoS – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media.</p> <p>Routing – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements.</p> <p>The following features are included in this license:</p> <ul style="list-style-type: none"> • ENUM Database support • LRT (local route table) • BGCF (Breakout Gateway Control Function) <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity

Product	Subproduct	Licensing Description
		<p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Core Features – Single Server Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>The following features are available with this license:</p> <p>Accounting – Allows the creation of call accounting records using either Radius or Diameter (via the Rf interface), or by collecting the information in flat files that can be stored locally or pushed via FTP to an external server.</p> <p>Load Balancing – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p>QoS – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media.</p> <p>Routing – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements.</p> <p>The following features are included in this license:</p> <ul style="list-style-type: none"> ENUM Database support LRT (local route table) BGCF (Breakout Gateway Control Function) <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, Government Security Certification – Integrated Software Option – per 50 Concurrent Sessions Metric	<p>Product Editions and Permitted Features Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, Government Security Certification – Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, Government Security Certification – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border

Product	Subproduct	Licensing Description
		<p>Controller session capacity</p> <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, IPsec Trunking - Integrated Software Option - per 50 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling and media.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> SSM3 module (for Acme Packet 4600 or 6350 platforms only – not required for Acme Packet 3900, 3950, 4900, 6400, or virtualized platforms) <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, IPsec Trunking – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling and media.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> SSM3 module (for Acme Packet 4600 or 6350 platforms only – not required for Acme Packet 3900, 3950, 4900, 6400, or virtualized platforms) <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, IPsec Trunking – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling and media.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> SSM3 module (for Acme Packet 4600 or 6350 platforms only – not required for Acme Packet 3900, 3950, 4900, 6400, or virtualized platforms) <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Border Controller, IPv4 to IPv6 Interworking – Integrated Software Option – per 50 Concurrent Sessions Metric	<p>Product Editions and Permitted Features</p> <p>Allows IPv4-IPv6 interworking for signaling and media. This license is not required for pure IPv6 functionality.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Border Controller, IPv4 to IPv6 Interworking – Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Allows IPv4-IPv6 interworking for signaling and media. This license is not required for pure IPv6 functionality.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p>

Product	Subproduct	Licensing Description
		<ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, IPv4 to IPv6 Interworking – Single Server Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Allows IPv4-IPv6 interworking for signaling and media. This license is not required for pure IPv6 functionality. Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Lawful Intercept – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features Allows configuration and use of parameters to enable lawful intercept. See Lawful Intercept Overview section in the CLI guide for details on LI types supported.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Lawful Intercept – Network-</p>	<p>Product Editions and Permitted Features Allows configuration and use of parameters to enable lawful intercept. See Lawful Intercept Overview section in the CLI guide for details on LI types supported.</p>

Product	Subproduct	Licensing Description
	Wide Concurrent Session Perpetual	<p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, Lawful Intercept – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Allows configuration and use of parameters to enable lawful intercept. See Lawful Intercept Overview section in the CLI guide for details on LI types supported.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, Policy Server – Integrated Software Option – per 50 Concurrent Sessions Metric	<p>Product Editions and Permitted Features</p> <p>Allows configuration of a COPS (common open policy server)/Diameter interface towards a third party external policy server function that provides functionality in the following two categories:</p> <ul style="list-style-type: none"> External Bandwidth Management/ Call Admission Control towards a Policy Server (RACF/PCRF) Location Information queries to a Connectivity Location Function (CLF). <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border

Product	Subproduct	Licensing Description
		<p>Controller – Integrated Software Option session capacity This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Policy Server – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Allows configuration of a COPS (common open policy server)/Diameter interface towards a third party external policy server function that provides functionality in the following two categories:</p> <ul style="list-style-type: none"> • External Bandwidth Management/ Call Admission Control towards a Policy Server (RACF/PCRF) • Location Information queries to a Connectivity Location Function (CLF). <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Policy Server – Single Server Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Allows configuration of a COPS (common open policy server)/Diameter interface towards a third party external policy server function that provides functionality in the following two categories:</p> <ul style="list-style-type: none"> • External Bandwidth Management/ Call Admission Control towards a Policy Server (RACF/PCRF) • Location Information queries to a Connectivity Location Function (CLF). <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border

Product	Subproduct	Licensing Description
		<p>Controller session capacity</p> <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, IWF protocol - Integrated Software Option - Per 500 Concurrent Sessions* or Per 50 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features</p> <p>Enables Signaling Interworking (such as response to/forward SIPH.323 signaling messages and set up SIP-H.323 sessions based on system configuration). Allows configuration of Interworking (IWF-related) configuration objects.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller - Integrated Software Option - Per 500 or 50 Concurrent Sessions Metric OR • Oracle Communications Session Border Controller - Integrated Software Option - Per 500 or 50 Concurrent Sessions Metric <p>This license requires an equal number of ISO session capacity licenses, and is only orderable in quantities that match ISO session capacity.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, IWF Protocol - NetworkWide Concurrent Session Perpetual Metric</p>	<p>Product Editions and Permitted Features</p> <p>Enables Signaling Interworking (such as response to/forward SIPH.323 signaling messages and set up SIP-H.323 sessions based on system configuration). Allows configuration of Interworking (IWF-related) configuration objects.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity OR • Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, IWF Protocol - Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables Signaling Interworking (such as response to/forward SIPH.323 signaling messages and set up SIP-H.323 sessions based on system configuration). Allows configuration of Interworking (IWF-related) configuration objects.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Border Controller, REST API for Third Party Use - Integrated Software Option - per 50 Concurrent Sessions Metric	<p>Product Editions and Permitted Features</p> <p>Enables automated management of the SBC from 3rd party (i.e., non Oracle) applications and services.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller - Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller - Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Border Controller, REST API for Third Party Use - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables automated management of the SBC from 3rd party (i.e., non Oracle) applications and services.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border

Product	Subproduct	Licensing Description
		<p>Controller session capacity</p> <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, REST API for Third Party Use – Single Server Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>Enables automated management of the SBC from 3rd party (i.e., non Oracle) applications and services.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Ringback Tone Generation – Integrated Software Option – per 50 Concurrent Session Metric</p>	<p>Product Editions and Permitted Features</p> <p>Allows the Session Border Controller to generate ringback tones locally</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, Ringback Tone Generation – Network-Wide Concurrent Session</p>	<p>Product Editions and Permitted Features</p> <p>Allows the Session Border Controller to generate ringback tones locally</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller

Product	Subproduct	Licensing Description
	Perpetual	<p>session capacity</p> <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, Ringback Tone Generation – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Allows the Session Border Controller to generate ringback tones locally</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, SIP/SIP-I Interworking – Integrated Software Option – per 50 Concurrent Session Metric	<p>Product Editions and Permitted Features</p> <p>Allows native SIP/SIP-I interworking, which is enabled via the sipi-behavior option of the sip-config element.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, SIP/SIP-I	<p>Product Editions and Permitted Features</p> <p>Allows native SIP/SIP-I interworking, which is enabled via</p>

Product	Subproduct	Licensing Description
	Interworking – Network-Wide Concurrent Session Perpetual	<p>the sipi-behavior option of the sip-config element.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Border Controller, SIP/SIP-I Interworking – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Allows native SIP/SIP-I interworking, which is enabled via the sipi-behavior option of the sip-config element.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Border Controller, SIPREC Session Recording – Integrated Software Option – per 50 Concurrent Sessions Metric	<p>Product Editions and Permitted Features</p> <p>Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls.</p> <p>This license is NOT available to French customers subject to the R226 regulations</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p>

Product	Subproduct	Licensing Description
		<p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, SIPREC Session Recording – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls. This license is NOT available to French customers subject to the R226 regulations</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, SIPREC Session Recording – Single Server Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls. This license is NOT available to French customers subject to the R226 regulations Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, SIPREC</p>	<p>Product Editions and Permitted Features Enables session replication for recording, which helps call centers record the signaling and media packets associated</p>

Product	Subproduct	Licensing Description
	Session Recording for French Territories – Integrated Software Option – per 50 Concurrent Sessions Metric	<p>with their calls.</p> <p>This license is only applicable to French customers subject to the R226 regulations</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Border Controller, SIPREC Session Recording for French Territories – Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls.</p> <p>This license is only applicable to French customers subject to the R226 regulations</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Border Controller, SIPREC Session Recording for French Territories – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls.</p> <p>This license is only applicable to French customers subject to the R226 regulations</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller

Product	Subproduct	Licensing Description
		<p>session capacity</p> <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	<p>Oracle Communications Session Border Controller, STIR SHAKEN - Integrated Software Option - per 50 Concurrent Sessions Metric</p>	<p>Product Editions and Permitted Features</p> <p>Enables the use of REST API calls to STI servers for the purposes of STIR authentication and validation.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>This license requires an equal number of ISO session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	<p>Oracle Communications Session Border Controller, STIR SHAKEN - Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>Enables the use of REST API calls to STI servers for the purposes of STIR authentication and validation.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	<p>Oracle Communications Session Border Controller, STIR SHAKEN - Single Server Concurrent Session</p>	<p>Product Editions and Permitted Features</p> <p>Enables the use of REST API calls to STI servers for the purposes of STIR authentication and validation.</p> <p>Single Server Concurrent Session Perpetual License limits</p>

Product	Subproduct	Licensing Description
	Perpetual	<p>the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Border Controller, Transport Layer Security (TLS) – Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables the use of TLS for encryption of SIP signaling for virtual SBCs</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>This license is only applicable to SBC VNF</p>
	Oracle Communications Session Border Controller, Transport Layer Security (TLS) – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables the use of TLS for encryption of SIP signaling for virtual SBCs</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>This license is only applicable to SBC VNF</p>

Product	Subproduct	Licensing Description
Session Based Licenses (orderable independent of session capacity licenses)		
	Oracle Communications Session Border Controller, Advanced MSRP Media Handling - Integrated Software Option - per 50 Concurrent Sessions Metric	<p>Product Editions and Permitted Features Enables the use of MSRP functionality.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller - Integrated Software Option session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller - Integrated Software Option session capacity <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, Advanced MSRP Media Handling - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features Enables the use of MSRP functionality.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, Advanced MSRP Media Handling - Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features Enables the use of MSRP functionality. Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, SRTP -	<p>Product Editions and Permitted Features Enables SRTP (SDS and DTLS) media encryption.</p>

Product	Subproduct	Licensing Description
	Integrated Software Option – per 50 Concurrent Sessions Metric	<p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity OR Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, SRTP – Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features Enables SRTP (SDES and DTLS) media encryption.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity OR Oracle Communications Peering Session Border Controller session capacity <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Border Controller, SRTP – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features Enables SRTP (SDES and DTLS) media encryption. Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity OR Oracle Communications Peering Session Border Controller session capacity <p>Entitled Products and Restricted Use Licenses N/A</p>
Codec Licenses		
	Transcoding coder/decoder for Oracle Communications Session Border Controller, AMR-WB	<p>Product Editions and Permitted Features AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec.</p> <p>Pre-requisite Products</p>

Product	Subproduct	Licensing Description
	(G.722.2) - Integrated Software Option – per 50 Concurrent Sessions Metric	<ul style="list-style-type: none"> Acme Packet 3900, 3950, 4900, 4600, 6350, or 6400 with transcoding module(s) <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <p>Oracle Communications Peering Session Border Controller session capacity</p> <p>OR</p> <p>Oracle Communications Transcoding Session Border Controller session capacity</p> <p>Requires an equal or greater number of session capacity licenses</p> <p>Not available on SBC VNF</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Communications Session Border Controller, AMR-WB (G.722.2) – Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Transcoding Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Communications Session Border Controller, AMR-WB (G.722.2) – Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p>

Product	Subproduct	Licensing Description
		<ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity OR <ul style="list-style-type: none"> Oracle Communications Transcoding Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Oracle Communications Session Border Controller, EVS - Integrated Software Option - per 50 Concurrent Sessions Metric	Product Editions and Permitted Features EVS royalty license is required in order to enable support for transcoding to and from EVS codec. Pre-requisite Products <ul style="list-style-type: none"> Acme Packet 3900, 3950, 4900, 4600, 6350, or 6400 with transcoding module(s) AND <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity OR <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity OR <ul style="list-style-type: none"> Oracle Communications Transcoding Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Not available on SBC VNF Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Oracle Communications Session Border Controller, EVS - Network-Wide Concurrent Session Perpetual	Product Editions and Permitted Features EVS royalty license is required in order to enable support for transcoding to and from EVS codec. Pre-requisite Products <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity OR <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity OR

Product	Subproduct	Licensing Description
		<ul style="list-style-type: none"> Oracle Communications Transcoding Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Oracle Communications Session Border Controller, EVS – Single Server Concurrent Session Perpetual	Product Editions and Permitted Features EVS royalty license is required in order to enable support for transcoding to and from EVS codec. Pre-requisite Products <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity OR <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity OR <ul style="list-style-type: none"> Oracle Communications Transcoding Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Oracle Communications Session Border Controller, Opus - Integrated Software Option – per 50 Concurrent Sessions Metric	Product Editions and Permitted Features Opus royalty license is required in order to enable support for transcoding to and from Opus codec. Pre-requisite Products <ul style="list-style-type: none"> Acme Packet 3900, 3950, 4900, 4600, 6350, or 6400 with transcoding module(s) AND <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity OR <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity OR <ul style="list-style-type: none"> Oracle Communications Transcoding Session Border Controller session capacity Requires an equal or greater number of session capacity licenses

Product	Subproduct	Licensing Description
		<p>Not available on SBC VNF</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, Opus – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Opus royalty license is required in order to enable support for transcoding to and from Opus codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Transcoding Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, Opus – Single Server Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Opus royalty license is required in order to enable support for transcoding to and from Opus codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Peering Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> • Oracle Communications Transcoding Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications</p>	<p>Product Editions and Permitted Features SILK royalty license is required in order to enable support for transcoding to and from SILK codec.</p>

Product	Subproduct	Licensing Description
	Session Border Controller, SILK - Integrated Software Option - per 50 Concurrent Sessions Metric	<p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 3900, 3950, 4900, 4600, 6350, or 6400 with transcoding module(s) <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Transcoding Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Not available on SBC VNF</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Communications Session Border Controller, SILK - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>SILK royalty license is required in order to enable support for transcoding to and from SILK codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Transcoding Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Communications Session Border Controller, SILK - Single Server Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>SILK royalty license is required in order to enable support for transcoding to and from SILK codec.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity

Product	Subproduct	Licensing Description
		<p>OR</p> <ul style="list-style-type: none"> Oracle Communications Peering Session Border Controller session capacity <p>OR</p> <ul style="list-style-type: none"> Oracle Communications Transcoding Session Border Controller session capacity <p>Requires an equal or greater number of session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
Endpoints Based Licenses (available in endpoint units)		
	<p>Oracle Communications Session Border Controller, IMS-AKA – Integrated Software Option – per 5K Endpoints Metric</p>	<p>Product Editions and Permitted Features Enables IMS-AKA framework use for authentication and for securing the signaling path between UE and the Oracle Communications Session Border Controller across the Gm interface on the access network.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 4600, 6350, or 6400 platforms <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller – Integrated Software Option session capacity <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border Controller, IMS-AKA – Network-Wide Concurrent Endpoint Perpetual</p>	<p>Product Editions and Permitted Features Enables IMS-AKA framework use for authentication and for securing the signaling path between UE and the Oracle Communications Session Border Controller across the Gm interface on the access network.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 4600, 6350, or 6400 platforms OR supported virtualized platform <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Border</p>	<p>Product Editions and Permitted Features</p>

Product	Subproduct	Licensing Description
	Controller, IMS-AKA – Single Server Concurrent Endpoint Perpetual	<p>Enables IMS-AKA framework use for authentication and for securing the signaling path between UE and the Oracle Communications Session Border Controller across the Gm interface on the access network.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Acme Packet 4600, 6350, or 6400 platforms, OR supported virtualized platform <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Border Controller session capacity <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>

Third-Party Commercial and Open Source Software

Commercial Software

Commercial software used in Oracle Communications Session Border Controller – S-CZ10.0.0 is identified in the following table with the following license notes, restrictions, and disclaimers.

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
Cavium	u-boot – 1.1.1	GPL 2.0 - See APPENDIX B
Icon Laboratories	Envoy SNMP – 3.6	Used under license from Icon Laboratories, All Rights Reserved.
Mocana	NanoSec Standard and Advanced – 5.1.1	Used under license from Mocana, All Rights Reserved
	NanoSSH Advanced – 5.1.1	Used under license from Mocana, All Rights Reserved
	NanoSSH Client and Server – 5.1.1	Used under license from Mocana, All Rights Reserved
	Embedded IKE – 5.1.1	Used under license from Mocana. All Rights Reserved.
	Embedded SSH Client and Server – 5.1.1	Used under license from Mocana. All Rights Reserved.
	Embedded SSL Server – 5.1.1	Used under license from Mocana. All Rights Reserved.
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	ASN.1 Compiler Add-On for H.323 for Windows	Used under license from Radvision, All Rights Reserved
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Andreas Gruenbacher	Acl 2.3.1-4	<p>LGPL 2.1 - See APPENDIX A</p>
Andrew G. Morgan et-al	Libpam 1.5.1-21.0.1	<p>Redistribution and use in source and binary forms of Linux-PAM, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> 1. Redistributions of source code must retain any existing copyright notice, and this entire permission notice in its entirety, including the disclaimer of warranties. 2. Redistributions in binary form must reproduce all prior and current copyright notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. The name of any author may not be used to endorse or promote products derived from this software without their specific prior written permission. <p>ALTERNATIVELY, this product may be distributed under the terms of the GNU General Public License, in which case the provisions of the GNU GPL are required INSTEAD OF the above restrictions. (This clause is necessary due to a potential conflict between the GNU GPL and the restrictions contained in a BSD-style copyright.)</p> <p>THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p>
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Version 3, 29 June 2007

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/*

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*

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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This file is intended to contain a few notes about writing C code within GCC so that it compiles without error on the full range of compilers GCC needs to be able to compile on.

The problem is that many ISO-standard constructs are not accepted by either old or buggy compilers, and we keep getting bitten by them.

This knowledge until now has been sparsely spread around, so I thought I'd collect it in one useful place. Please add and correct any problems as you come across them.

I'm going to start from a base of the ISO C90 standard, since that is probably what most people code to naturally. Obviously using constructs introduced after that is not a good idea.

For the complete coding style conventions used in GCC, please read <http://gcc.gnu.org/codingconventions.html>

String literals

Some compilers like MSVC++ have fairly low limits on the maximum length of a string literal; 509 is the lowest we've come across. You may need to break up a long printf statement into many smaller ones.

Empty macro arguments

ISO C (6.8.3 in the 1990 standard) specifies the following:

If (before argument substitution) any argument consists of no preprocessing tokens, the behavior is undefined.

This was relaxed by ISO C99, but some older compilers emit an error, so code like

```
#define foo(x, y) x y  
foo (bar, )
```

needs to be coded in some other way.

Avoid unnecessary test before free

Since SunOS 4 stopped being a reasonable portability target, (which happened around 2007) there has been no need to guard against "free (NULL)". Thus, any guard like the following constitutes a redundant test:

```
if (P)  
    free (P);
```

It is better to avoid the test.[*]
Instead, simply free P, regardless of whether it is NULL.

[*] However, if your profiling exposes a test like this in a performance-critical loop, say where P is nearly always NULL, and the cost of calling free on a NULL pointer would be prohibitively high, consider using `__builtin_expect`, e.g., like this:

```
if (__builtin_expect (ptr != NULL, 0))
    free (ptr);
```

Trigraphs

You weren't going to use them anyway, but some otherwise ISO C compliant compilers do not accept trigraphs.

Suffixes on Integer Constants

You should never use a 'l' suffix on integer constants ('L' is fine), since it can easily be confused with the number '1'.

Common Coding Pitfalls

=====

errno

errno might be declared as a macro.

Implicit int

In C, the 'int' keyword can often be omitted from type declarations. For instance, you can write

```
unsigned variable;
```

as shorthand for

```
unsigned int variable;
```

There are several places where this can cause trouble. First, suppose 'variable' is a long; then you might think

```
(unsigned) variable
```

would convert it to unsigned long. It does not. It converts to unsigned int. This mostly causes problems on 64-bit platforms, where long and int are not the same size.

Second, if you write a function definition with no return type at all:

```
operate (int a, int b)
{
  ...
}
```

that function is expected to return int, *not* void. GCC will warn about this.

Implicit function declarations always have return type int. So if you correct the above definition to

```
void
operate (int a, int b)
...
```

but operate() is called above its definition, you will get an error about a "type mismatch with previous implicit declaration". The cure is to prototype all functions at the top of the file, or in an

appropriate header.

Char vs unsigned char vs int

In C, unqualified 'char' may be either signed or unsigned; it is the implementation's choice. When you are processing 7-bit ASCII, it does not matter. But when your program must handle arbitrary binary data, or fully 8-bit character sets, you have a problem. The most obvious issue is if you have a look-up table indexed by characters.

For instance, the character '\341' in ISO Latin 1 is SMALL LETTER A WITH ACUTE ACCENT. In the proper locale, `isalpha('\341')` will be true. But if you read '\341' from a file and store it in a plain char, `isalpha(c)` may look up character 225, or it may look up character -31. And the ctype table has no entry at offset -31, so your program will crash. (If you're lucky.)

It is wise to use unsigned char everywhere you possibly can. This avoids all these problems. Unfortunately, the routines in `<string.h>` take plain char arguments, so you have to remember to cast them back and forth - or avoid the use of `strxxx()` functions, which is probably a good idea anyway.

Another common mistake is to use either char or unsigned char to receive the result of `getc()` or related stdio functions. They may return EOF, which is outside the range of values representable by char. If you use char, some legal character value may be confused with EOF, such as '\377' (SMALL LETTER Y WITH UMLAUT, in Latin-1). The correct choice is int.

A more subtle version of the same mistake might look like this:

```
unsigned char pushback[NPUSHBACK];
int pbidx;
```



```
#define ungetc(c) (assert(pbidx < NPUSHBACK), pushback[pbidx++] = (c))
#define get(c) (pbidx ? pushback[--pbidx] : getchar())
...
ungetc(EOF);
```

which will mysteriously turn a pushed-back EOF into a SMALL LETTER Y WITH UMLAUT.

Other common pitfalls

- o Expecting 'plain' char to be either sign or unsigned extending.

- o Shifting an item by a negative amount or by greater than or equal to the number of bits in a type (expecting shifts by 32 to be sensible has caused quite a number of bugs at least in the early days).

- o Expecting ints shifted right to be sign extended.

- o Modifying the same value twice within one sequence point.

- o Host vs. target floating point representation, including emitting NaNs and Infinities in a form that the assembler handles.

- o qsort being an unstable sort function (unstable in the sense that multiple items that sort the same may be sorted in different orders by different qsort functions).

- o Passing incorrect types to fprintf and friends.

- o Adding a function declaration for a module declared in another file to a .c file instead of to a .h file.

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Chai

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expression-eval

<https://github.com/donmccurdy/expression-eval>

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jsep -

<https://github.com/soney/jsep>

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Hammer.JS

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Normalize.scss

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RequireJS i18n

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select2.js

<https://github.com/select2/select2>

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<http://jquery.com/>

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

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RequireJS text

<http://github.com/requirejs/text>

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RequireJS

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Python License

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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