

Client Access Licenses 101

This information is designed to provide an overview. Before purchasing, view the most updated Microsoft product usage rights document at: www.microsoftvolumelicensing.com or consult your trusted Microsoft Reseller.

If the workstations in an organisation are networked, those workstations likely depend on network server software to perform certain functions, such as file and print sharing. To legally access the server software, a Client Access License (CAL), may be required. A CAL is not a software product - it is a license that gives a user the right to access the services of the server. **The Server license must be purchased separately to Client Access Licenses (except in the case of licensing Per Processor).**

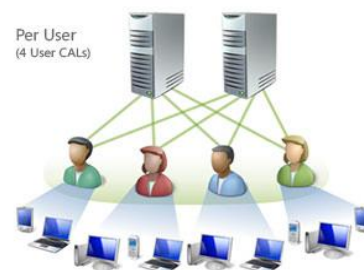
Server + CAL Model

In addition to the Server license itself, most Server products require a Client Access License for each user or device accessing the Server software. There are two types of Client Access Licenses: Device CAL and User CAL. Customers may license in either type of CAL, however, selection must be determined at the time the CAL is purchased or when Software Assurance on the CAL is renewed. Client Access Licenses permit access to earlier versions of server software than the CAL, but not later versions. i.e. a Windows Server 2003 CAL may not access Windows 2008 Server.

Server + Client Access Licenses are available for the following Microsoft products: Exchange Server (Standard & Enterprise editions), Windows Server (Standard, Enterprise, & Datacentre editions), Windows Small Business Server (Standard & Premium editions), Lync Server (Standard & Enterprise editions) Project Server, SQL Server in Server + CAL mode (Standard, Enterprise & Workgroup editions), Forefront Identity Manager, Forefront Unified Access Gateway, Dynamics CRM (Professional & Enterprise editions).

User CALs

Each user CAL permits one user, using any device, to access instances of the server software on your licensed servers. With the User CAL, you purchase a CAL for every user who accesses the server to use services such as file storage or printing, regardless of the number of devices they use for that access. Purchasing a User CAL might make more sense if an organisation's employees need to have roaming access to the corporate network using multiple devices, or from unknown devices, or simply have more devices than users in your organisation.



Device CALs

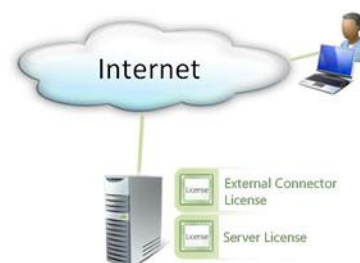
Each device CAL permits one device, used by any user, to access instances of the server software on your licensed servers. With a Device CAL, you purchase a CAL for every device that accesses your server, regardless of the number of users who use that device to access the server. Device CALs may make more economic and administrative sense if your company has workers who share devices, for example, on different work shifts.



External Connectors (optional)

For external users such as business partners, external contractors, or customers to be able to access your network, there are two licensing options available: **1.** Purchase CALs for each of your external users, or **2.** Purchase External Connector (EC) licenses for each server that will be accessed by your external users.

An external user is a person who is not an employee or similar personnel of the company or its affiliates, and is not someone to whom you provide hosted services. An External Connector license assigned to a server permits access by any number of external users, as long as that access is for the benefit of the licensee and not the external user. The decision on whether to acquire CALs or an External Connector for external users is primarily a financial one. Each physical server that external users access requires only one External Connector license regardless of the number of software instances running. (An "instance" is an installed copy of software.)



External Connectors are available for the following Microsoft Products: Exchange Server 2010, Dynamics CRM 4.0, ForeFront Identity Manager 2010 Forefront Unified Access Gateway 2010 External Connector Visual Studio Team Foundation Server 2010 External Connector

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Licensing Windows Servers in Virtual Operating System Environments (OSEs)

With most products, you must assign a license to a server for each *instance* of the server software that you run on that server. An "instance" is an installed copy of software. You may run that instance in a physical or virtual Operating System Environment (OSE) on that server. By exception to the standard licensing model, some products provide broader use rights, for example, a Windows Server 2008 R2 Enterprise license permits a running instance in up to 4 virtual OSEs at a time on the licensed server. **The number of permitted instances for each Operating System license:**

Operating System	Permitted instances in physical and virtual OSEs on a single server
Windows Server 2008 R2 Standard	1* + 1
Windows Server 2008 R2 Enterprise	1* + 4
Windows Server 2008 R2 Datacenter	1 + Unlimited
Windows Small Business Server 2011 Standard	1* or 1

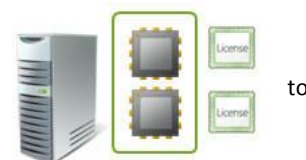
**If running the maximum allowed instances, the instance in the physical OSE may only be used to run hardware virtualisation software, provide hardware virtualisation services, or run software to manage and service OSEs on the licensed server.*

Per Processor Licensing

A separate Client Access Licenses is not required for products licensed in Per Processor mode.

You simply acquire a Processor License for each processor in the server on which the software is running. A Processor License includes access for an unlimited number of users to connect from either inside the local area network (LAN) or wide area network (WAN), or outside the firewall (via the Internet). You do not need purchase additional server licenses, CALs, or Internet Connector Licenses.

2 processor server









Per Processor licenses are available for: BizTalk Server (Standard, Enterprise & Branch editions),

Commerce Server 2009 (Standard & Enterprise editions), Forefront Threat Management Gateway 2010 (Standard & Enterprise editions), SQL Server 2008 R2 (Standard, Enterprise, Datacentre, Web & Workgroup)

Client Access License Suites

Client Access License Suites are the most cost-effective way to supercharge your investment in Microsoft Desktop and Server technologies.

CAL Suites combine the most popular Client Access Licenses into two convenient packages: Core and Enterprise.

	Server	Core CAL Suite	Enterprise CAL Suite
 Windows Server	Windows Server Standard	✓	✓
	Active Directory Rights Management Services		✓
 Exchange Server	Exchange Server Standard	✓	✓
	Exchange Server Enterprise		✓
 SharePoint	SharePoint Server Standard	✓	✓
	SharePoint Server Enterprise		✓
 Office Communications Server	Office Communications Server Standard		✓
	Office Communications Server Enterprise		✓
 System Center	System Centre Configuration Manager	✓	✓
	System Centre Client Management Suite		✓
 Forefront	Forefront Protection Suite		✓
	Forefront Unified Access Gateway		✓

More information on Client Access License suites: www.microsoft.com/calsuites