



Client Access License: Review

Windows Server: CALs



Why do we sell Windows Server Client Access Licenses (CALs)?



What types of CALs are there?



Which editions of Windows Server require a CAL license?



Are CALs associated with a specific version?



Are CALs independent?

Windows Server Client Access Licenses (CAL)

What is a Client Access License (CAL)?

Client Access Licenses are different from Windows Server Software Licenses

A Client Access License (CAL) provides users and devices with access to a server running to which external users connect must have an External Connector (EC) license.

CAL is cost-effective and provides more scalability

Customers pay only for the license that that they really need.
As the business grows, they can buy new licenses.

Licensing model Windows Server 2022



User or Device Licenses



Physical Core Licenses

By number of users or devices

- One Basic Client Access License (CAL) per internal user or device.
- One basic External Connector (EC) license per server accessed by external users or devices.
- Incremental Licenses to Use
- advanced features*

Server Licensing

- Servers are licensed by the number of cores in the physical server.
- A physical server license must encompass all of its physical cores.

* Advanced features include Remote Desktop Services (RDS) Windows Server and Active Directory Rights Management Services.

Why do we sell Client Access Licenses?

Windows Server CALs should be offered to customers when you sell a server



Increase Your Sales Revenue

Windows Server 2019 License +
Windows Server 2019 CAL =
More Revenue.

Always offer CAL when selling
Windows Server 2019 Standard
and Datacenter.



Increase your trade size

Each sale of a CAL increases the
profit from the transaction.

Make it a habit to offer CAL when
you sell Windows Server 2019.



Convince your customers that they need licenses

Microsoft requires that every user
and device that needs access be
provided with a CAL to Windows
Server.

For customers, vendors are
experienced consultants who can
help ensure that each server has the
necessary licenses and prepare for an
audit.

Types of Client Access Licenses for Windows Server

CAL is cost-effective and provides more scalability



CALs "Per user"

**One user with unlimited
Number of devices**

Ideal for companies where employees need anywhere access to the corporate network from multiple devices, including unknown ones.



CALs Per Device

**One Device with Unlimited
Number of users**

Ideal for companies where the same device is used by several people who, for example, work in shifts.



Incremental CALs

**Required to access
Advanced Server Features**

Ideal for companies that need advanced server features such as access control software, remote access to the entire desktop, or Active Directory.

Windows Server 2022



The cloud-ready operating system to boost your on-premises investments with hybrid capabilities

Enable cloud innovation for your business

Improve performance while lowering costs

Modernize infrastructure for greater efficiency

Expect more from Windows Server 2022

Over 25 years of innovation



Hybrid capabilities with Microsoft Azure

Extend your datacenter to Azure using a cloud-ready operating system with hybrid capabilities



More secure remote working

Empower workers through simplified deployment and management of remote apps and desktops



Advanced multilayer security

Help protect your data and apps at virtually every level of the business, starting with the operating system



Modernized server infrastructure

Help transform existing infrastructure with flexible solutions like software-defined storage and networking

Windows Server 2022 editions

Description	Model	Licensing	Client License
Windows Server 2022 Datacenter	For highly virtualized cloud and data center environments	By Number of Cores	Windows Server CAL Required
Windows Server 2022 Standard	For physical or minimally virtualized environments	By Number of Cores	Windows Server CAL Required
Windows Server 2022 Essentials	For small organizations with no more than 25 users and 50 devices	By Number of Processors	CALs are not required

Windows Server 2022 CAL

Example.

For a user with RDS and RMS access, you must purchase:

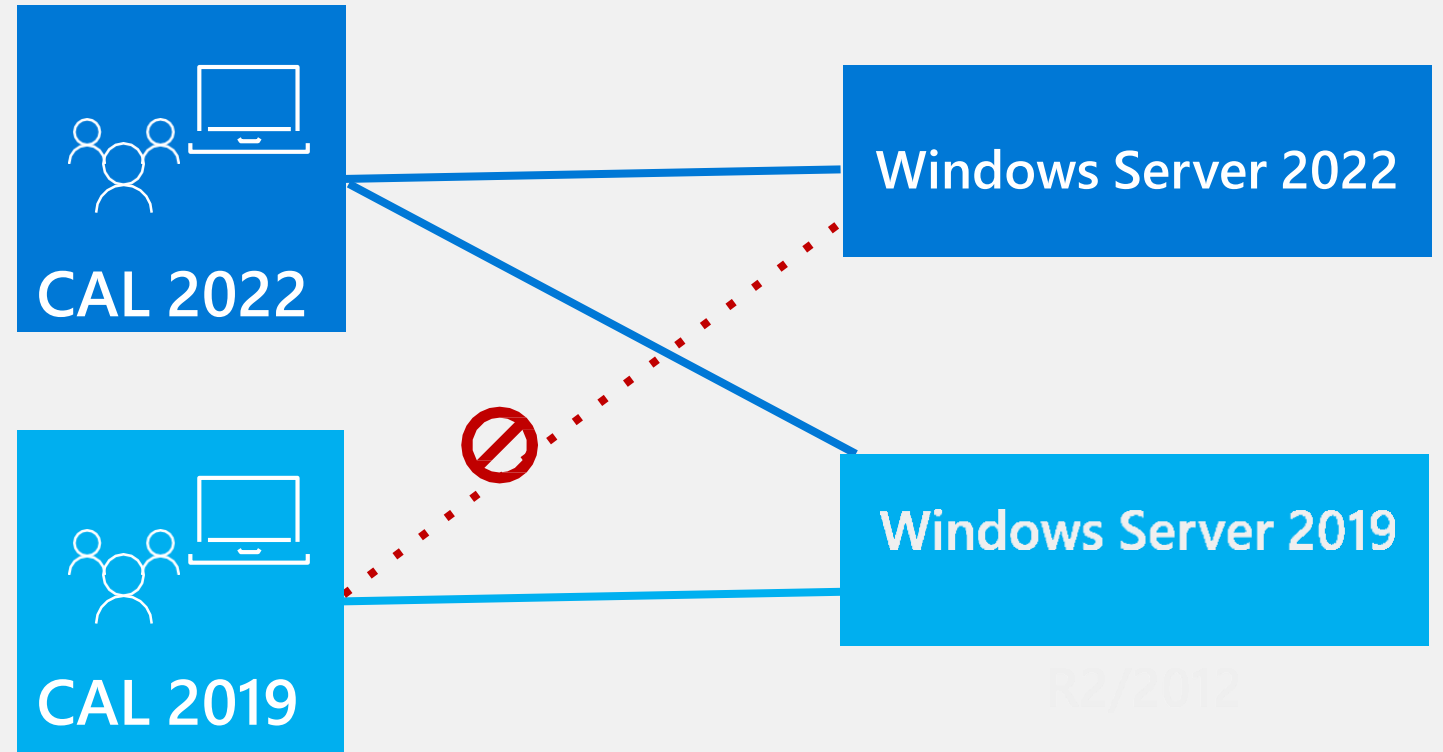
- 1 Windows Server 2022 base CAL (Standard or Datacenter)
- +1 CAL for Windows Server Remote Desktop Services
- +1 CAL for Active Services Directory Rights Management

Functionality			
Server	Base CAL on Windows Server	Windows Server Remote Desktop Services (RDS) CAL	Active Directory Rights Management (RMS) CALs
Windows Server 2022 Datacenter	Base	Incremental	Incremental
Windows Server 2022 Standard	Base	Incremental	Incremental
Windows Server 2022 Essentials	N/A	N/A	Incremental

The Client Access Licenses relate to the base license

Client Access Licenses (CALs) are required to access any instance of Windows Server.
They must be purchased separately.

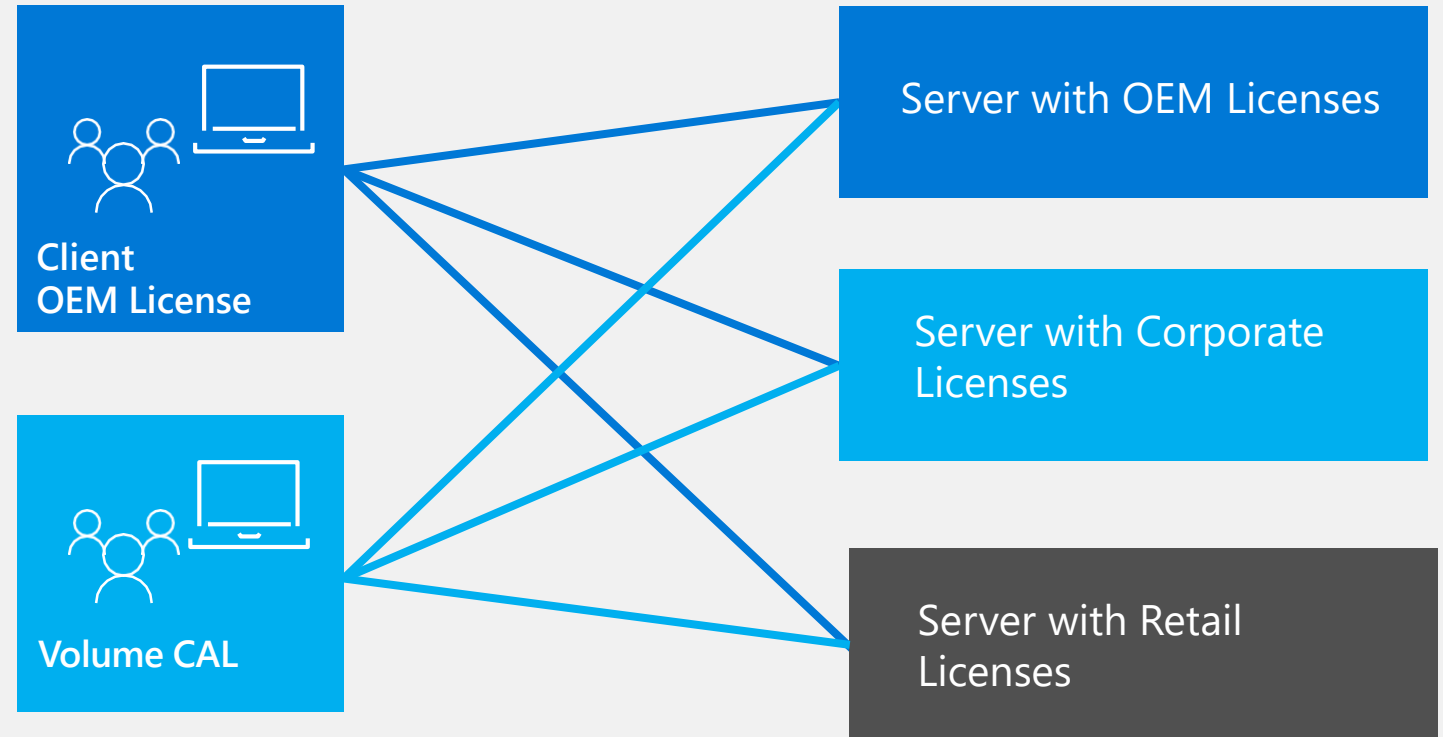
- Windows Server 2022 CAL provides access to Windows Server 2022 or any earlier version.
- CAL of any earlier version of Windows Server is valid only for that version and earlier.



Independent Client Access Licenses

Note: Regardless of how CAL is purchased, it is transferable and channel-agnostic.

- Customer, corporate, retail, and OEM licenses give you the same rights.
- Any CAL (OEM, Enterprise, or Retail) can be used to access any type of Windows Server (OEM, Enterprise, or Retail).
- OEM CALs are not tied to a specific server. When the OEM server is out of service, OEM client licenses are still valid.



Conclusion: Key facts about Client Access Licenses



Customers need to purchase CAL for those users or devices that are accessing to the server.



CAL should be purchased with Microsoft server software licenses so that users and devices can use Microsoft server software services.



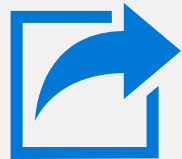
Also, each server, to which they connect external users, Must be licensed External Connector (EC).



Cals "per device" and "per user", as well as Incremental client Licenses can be Use on one and the same server.



CAL is version-specific and can be used to access the corresponding version of Windows Server or any earlier version.



With Software Assurance (SA), customers can retain their rights to access a newer version of server software.



When you renew Software Assurance, you can switch between CAL types "per device" or "per user".

