# ownCloud
# Feature Sheet

This comparison chart will help you decide which is best for you –
ownCloud Standard or Enterprise Edition.

## General

| | Standard Edition | Enterprise Edition | |
|---|---|---|---|
| **License** | AGPLv3 (Must share customizations with Community) | ownCloud Commercial License for ownCloud Server Core and Enterprise Modules | https://owncloud.com/licenses/owncloud-commercial/ |
| **Deployment Options** | • On-Premises<br>• Hybrid<br>• Cloud | • On-Premises<br>• Hybrid<br>• Cloud | ownCloud puts you in control. You decide where your data resides! |
| **Onboarding/Migration Assistance** | ✕ | Dedicated Deployment Manager | When you're ready to deploy ownCloud, no matter how straight-forward or complex your implementation will be, we will help you to ensure a smooth and effective production roll-out. With four levels of deployment support available, you will be able to tailor your deployment services to match your needs. |
| **Support** | Community Forum (free) or 8x5 with 24h reaction time with Standard Subscription | 12x5 with **2h reaction time**, up to 24x7 with **2h reaction time** (Custom Subscription) | https://owncloud.com/pricing/ |
| **Documentation** | ✓ | ✓ | https://doc.owncloud.com/ |
| **Multi-Language Support** | ✓ | ✓ | ownCloud is available in many languages, translations are constantly extended and improved |
| **Intuitive Web-Interface** | ✓ | ✓ | ownCloud's design principles put the user center stage, by providing a great user experience and seamless workflows. They do this by focusing on ease-of-use and an intuitive design. |
| **Desktop Clients for Windows, MacOS & Linux** | ✓ | ✓ | The ownCloud desktop client keeps your files in sync and provides many additional features, by directly integrating with the file browser (e.g. sharing of files). The ownCloud Desktop Sync Client for Windows is delivered as Windows Installer (MSI), suitable for all common solutions for Windows software distribution. |
| **Virtual File System** | ✓ | ✓ | The Desktop Client with Virtual File System improves usability and reduces local storage requirements. Users can share files in the Explorer even if they are not stored locally. The client reflects the file and folder structure of the server, regardless of whether the data is completely available locally. If a file is needed, it can be downloaded and opened on-demand. |
| **Mobile Clients for iOS & Android** | 0,99 € / 0,99 $ | Included in Subscription, may be branded | https://owncloud.com/apps/ |
| **Active Directory/LDAP Integration** | ✓ | ✓ | Connect an ownCloud instance to an LDAP/AD-based user directory (Authentication and provisioning of users/groups and corresponding attributes). |
| **Branding with ownBrander** | ✕ | ownBrander Self Service included, can be extended by Branding Subscription „small" or „full", up to integration into Mobile Device Management and Single Sign On Systems. | ownBrander lets you easily apply your Corporate Identity to the ownCloud Web-Interface, Mobile & Desktop Clients. |
| **Oracle DB Support** | ✕ | ✓ | Supports the use of Oracle Databases with ownCloud. |

## Usability

| | Standard Edition | Enterprise Edition | |
|---|---|---|---|
| **Activity Stream** | ✓ | ✓ | Displays actions related to their files in ownCloud, e.g. upload, edit, delete, share, share was accessed externally. User-configurable, regular e-mail notifications possible. |
| **Content Sharing** | ✓ | ✓ | Sharing of files, calendars, notes and more with users of your ownCloud Instance, users of other ownCloud instances (Federated Cloud Sharing) or via an anonymous link (password protection, expiration date possible) |
| **Custom Groups** | ✓ | ✓ | Enables users to define their own groups to share with. An integrated role concept allows collaborative management of groups. |
| **Federated Cloud Sharing** | ✓ | ✓ | With Federated Cloud Sharing, users on one ownCloud installation can collaborate with users on other ownCloud installations while each server maintains its respective security and governance protocols. Files shared between users are no longer confined to a single shared folder or ownCloud instance. |
| **Sharing Permission Management** | ✓ | ✓ | Feature to selectively restrict access to shared content (Create, Edit, Delete, Reshare) |
| **Calendar** | Optional | Optional | Use the Calendar App in ownClouds Web-Interface, sync your Calendars via CalDAV and share them with other users. |
| **Contacts** | Optional | Optional | Use the Contacts App in ownClouds Web-Interface, sync your Contacts via CalDAV and sharing them with other users. |
| **Video Streaming** | ✓ | ✓ | Watch your videos directly in ownCloud without the hassle of downloading them first. |
| **Image Gallery** | ✓ | ✓ | Gallery feature for quick & easy image viewing with slideshow functionality. |
| **Large File Support (>4 GB)** | ✓ | ✓ | File size in ownCloud is only limited by the configuration and underlying infrastructure. |
| **Upload Chunking/Resuming** | ✓ | ✓ | Chunking allows to split up files into smaller packages ('chunks') before uploading. This enables parallel uploading for a single file (performance improvements) and upload resuming during e.g. unstable network connection. |
| **Collaborative Editing of Office Documents with Collabora Online** | Optional | Optional | Collaborative viewing & editing of office documents within a browser. Supports Microsoft & LibreOffice formats for documents, presentations & spreadsheets.<br><br>https://owncloud.com/collabora/collaborative-editing/ |
| **Collaborative Editing of Office Documents with ONLYOFFICE** | Optional | Optional | The ONLYOFFICE integration enables access and collaborative editing of Microsoft Office file formats for documents, presentations and tables from the ownCloud frontend in real time.<br><br>https://owncloud.com/onlyoffice/ |
| **Collaborative Editing of Office Documents with Microsoft Office Online** | ✕ | Optional | The Microsoft Office Online integration via WOPI enables viewing and collaborative editing of documents, presentations and spreadsheets using the original Microsoft Office Online Editor within the ownCloud frontend in real time. |

# Usability

| | Standard Edition | Enterprise Edition | |
|---|---|---|---|
| **Microsoft Outlook Plugin** | Optional | Optional | Using the ownCloud Outlook integration you can share access to important files and directories with just a few clicks directly from Outlook.<br><br>https://owncloud.com/outlook-plug-in/ |
| **File Drop** | ✓ | ✓ | Allows users to mark any folder as a drop folder for externals to anonymously drop files in a shared folder without revealing the actual content of the folder. |
| **File Tagging** | • Admin-Defined<br>• User-Defined | • Admin-Defined<br>• User-Defined<br>• Auto- & Group-Tagging | Add specific tags to your files. This feature allows smart filtering of files and works with shared files as well. |
| **File Versioning** | ✓ | ✓ | Versioning feature for files which allows rollback to older file versions. |
| **File Comments** | ✓ | ✓ | Add individual comments to files. Works with shared files as well. |
| **File Locking** | ✓ | ✓ | Lock files to prevent users from making concurrent edits that could cause file conflicts. Users are notified when files are locked. |
| **Favorites** | ✓ | ✓ | Mark files & folders as favorites for quick access on all devices. |
| **Impersonation** | ✓ | ✓ | Admin feature to impersonate users. Administrators can login as any user and conduct actions as this user i.e. to provide a helpdesk experience. May be restricted to group membership/<br>administrators. |
| **Notifications** | ✓ | ✓ | With this feature users can receive notifications from administrators & apps. |
| **Guests** | ✓ | ✓ | The ownCloud Guests feature allows to create ownCloud Guest accounts with very limited access rights. Simply share with external users just by entering an email address in the sharing dialog. |
| **Workflows (Automated File Operations)** | ✕ | ✓ | Enables administrators to specify rules and conditions (file size, file mimetype, group membership and more) to automatically assign tags (see 'File Tagging') to uploaded files. Based on those tags automated file operations ('Workflow actions') like File Retention (automated file retention periods) can be conducted. Can be extended by 'Workflow Apps'. |
| **Full Text Search** | Optional | Optional | Full text search functionality to find files, folders and file content easily. Supports .txt, .docx, .xlsx, .pptx, .odt, .ods, .pdf and more. |
| **Extensibility through ownCloud Marketplace** | Community contributed: Music, Video, Notes + 200 more | ownCloud Apps certified for the enterprise | ownCloud's open architecture and APIs allow developers to rapidly extend core functionality and enhance the solution to meet user needs. ownCloud is highly extensible therefore, enabling the addition of new features quickly via plug-in applications ('ownCloud Apps').<br><br>https://marketplace.owncloud.com/ |

## Storage

| | Standard Edition | Enterprise Edition | |
|---|---|---|---|
| **Storage Infrastructure Consolidation** | ✓ | ✓ | Single point of access to all supported storage systems. ownCloud unites your storage resources on one platform giving you secure access without requiring a VPN connection. |
| **Primary storage** | • Local storage<br>• GlusterFS/Red Hat Storage<br>• S3 Object Storage | • Local storage<br>• GlusterFS/Red Hat Storage<br>• certified S3 Object Storage: Scality, Ceph S3, Amazon S3, etc. | Internal storage of an ownCloud instance. |
| **Secondary storage** | • FTP<br>• Dropbox<br>• Google Drive<br>• sFTP<br>• WebDAV<br>• SMB/CIFS | • S3<br>• FTP<br>• Dropbox<br>• Google Drive<br>• sFTP<br>• WebDAV<br>• SMB/CIFS | External storage of an ownCloud instance. Can for example include mounted or integrated storage systems. |
| **Microsoft SharePoint Integration** | ✕ | ✓ | Integration of MS SharePoint Storage with ownCloud.<br><br>https://owncloud.com/owncloud-sharepoint/ |
| **Windows Network Drive Integration** | ✕ | ✓ | Integration of Windows Network Drive with ownCloud. |

## Security

| | Standard Edition | Enterprise Edition | |
|---|---|---|---|
| **End-to-End Encryption** | Optional | Optional | End-to-End Encryption for ownCloud increases the security standard for file storage and sharing. It enables users to create folders for client-side encrypted internal or external data exchange. Neither the administrator of the ownCloud Server nor third parties who have access to the infrastructure can read the data. Individual or central key management and provisioning are both available. |
| **End-to-End Encryption with Key Service** | Optional | Optional | For maximum security and control in data exchange, ownCloud offers an additional Key Service application which enables professional key management with the option of using USB tokens, HSM/Smartcards and other hardware devices to decrypt data. Device-based key management provides the highest security level as decryption keys are stored separately from the user's workstation and can't be extracted from the hardware device. |
| **Ransomware Protection** | ✕ | ✓ | Ransomware attacks are an ever-present malware risk, both for large enterprises as well as for private users. Once affected, whole hard drives or parts of it can become encrypted leading to unrecoverable data loss that directly translates to significant effort and cost. For this exact purpose the ownCloud Ransomware Protection App protects companies by blocking uploaded files known to originate from ransomware to preserve original, unaffected files in ownCloud. Additional to that the App can automatically block user accounts where ransomware was detected and also provides smart mechanisms for the restoration of infected files. |

## Security

| | Standard Edition | Enterprise Edition | |
|---|---|---|---|
| **2-Factor Authentication** | ✓ | ✓ | Two-Factor authentication through TOTP (Time-Based One-Time Password Algorithm). For example compatible with Google Authenticator. |
| **Active Session Management** | ✓ | ✓ | List active sessions of a user and disconnect them selectively. |
| **Anti-Virus** | ✓ | ✓ | Virus scanner for files (using ClamAV). |
| **Encryption of Primary Storage (AES-256), Key management** | ✓ | ✓ | Server-side encryption of primary storage using the Advanced Encryption Standard (AES). When enabled, the admin is unable to read user-data of an instance. |
| **File Integrity Checking** | ✓ | ✓ | To prevent file corruption the integrity of up- and down-loaded files is automatically verified by comparing their unique checksums before and after transfer. |
| **Auditing/Logging Module** | ✕ | ✓ | Admin feature to log login and logout events of users, file system operations, including actions on the trash bin, internal sharing of a file, sharing a link with a user, or permission changes as well as user management actions (creation/deletion/disabling/enabling of users), actions on ownCloud apps (enable/disable) and administrative actions from the command line. |
| **File Firewall** | ✕ | ✓ | Admin feature for application level file access rules to protect files in the enterprise. Inspects file requests made on an ownCloud server, and prevents ownCloud from executing any code if the firewall rules are met. Possible rules are IP address range, device type, file size, subnet, time, group membership. Logging is configu-rable. |
| **OAuth2** | ✓ | ✓ | OAuth2 is the open industry-standard protocol for secure authorization of clients. It greatly enhances security while facilitating the integration of third party applications or web services. |
| **Password Policy** | ✓ | ✓ | The Password Policy application enables ownCloud administrators to define password requirements like minimum characters, numbers, capital letters and more for all kinds of password endpoints like user and guest accounts or public link sharing passwords. Additional to that administrators can define an expiration date for passwords and set certain policies to avoid the reuse of passwords. To add another layer of security, the administrator can enforce expiration dates for public link shares. As soon as the expiration date is reached the share will be removed automatically. |
| **SAML/SSO Authentication** | ✕ | ✓ | Authentication feature using the SAML standard. This allows Single Sign-On (SSO) via Shibboleth, ADFS, Ping Identity and more. |
| **Native Brute Force Protection** | Optional | Optional | The „Brute Force Protection" extension prevents attackers from „guessing" user passwords through a brute force attack. Repeated failed login attempts from the same IP address are delayed, minimizing the chances of a successful attack. |
| **Document Classification** | ✕ | ✓ | To prevent sensitive data from being leaked and safe-guard personal data as per regulation guidelines, the 'Document Classification' extension enables administra-tors to automatically classify documents and define poli-cies for sharing documents based on defined levels of confidentiality. |

## Security

| | Standard Edition | Enterprise Edition | |
|---|---|---|---|
| **Secure View** | ✕ | ✓ | Secure View allows ownCloud users to share sensitive data in such a way that it can only be viewed by the recipient in the browser. If users share data, they can choose to forbid editing, downloading, copy/pasting and printing a shared document. Additionally documents are protected with watermarks that identify the user and make screenshots tracable. Secure View is a Collabora Online feature, and works with documents of all common office file formats (docx/xlsx/pptx/odx/pdf). |
| **Storage Encryption with HSM support** | ✕ | ✓ | ownCloud Server supports storage encryption with master keys stored in hardware security modules (HSM). In contrast to the regular master key-based storage encryption that stores the keys on the storage, storage encryption with keys in an HSM allows administrators to completely prevent anyone who has access to the storage from accessing the data stored in ownCloud. |

## Technical Toolbox

| | Standard Edition | Enterprise Edition | |
|---|---|---|---|
| **Command Line Interface (CLI)** | ✓ | ✓ | Management of instances via command line and/or scripts (OCC). |
| **Provisioning APIs** | ✓ | ✓ | Contains APIs to enable the provision of the following Admin /Group-Admin functionalities outside the WebGUI via HTTP-reqeusts:<br>• Create, edit, delete and query user attributes<br>• Query, set and remove groups, set quota and query total storage used in ownCloud<br>• Query for active ownCloud applications or application info |
| **WebDAV/CalDAV/CardDAV API** | ✓ | ✓ | Extension of the HTTP-Protocol used as an interface for file operations and calendar/contact syncronization. Open standard with ownCloud-specific extensions. |
| **OpenCloudMesh API** | ✓ | ✓ | Interface for federation between ownCloud instances and other OpenCloudMesh-ready services. For further information about the OpenCloudMesh Project visit https://oc.owncloud.com/opencloudmesh.html |
| **Sharing API** | ✓ | ✓ | Interface for sharing functionalities. |
| **Capability API** | ✓ | ✓ | Interface for server capability discovery. |
| **Public ownCloud Server Core API** | ✓ | ✓ | Interface for extending the ownCloud server functionality. An example are ownCloud Apps. |

**Custom Features**

ownCloud Enterprise Edition offers many great features, however, some customers require certain capabilities that may not be readily available. For those customers the engineers at ownCloud go out of their way to deliver these capabilities by opening consulting projects.

🌐 https://owncloud.com/custom-features/

**About ownCloud**

ownCloud is the market leading open source content collaboration solution worldwide. ownCloud enables users to securely access and share data from any device, anywhere in the world. With more than 200,000 installations and 50 million users, ownCloud provides organizations a modern collaborative experience, thereby boosting productivity without compromising on security. At the same time, it gives organizations the visibility and control required to manage sensitive data.

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