Recast

Application Workspace Components

Last Modified on 2026-11-11

Application Workspace architecture comprises the components defined below.

Application Workspace System

An Application Workspace System is the highest layer within the Application Workspace architecture. Based on how you want the system to be configured, it can comprise of Application Workspace Servers, MS-SQL Database servers, Application Workspace Satellite Servers, Storage, Azure blob and Load balancers.

Application Workspace Server

Application Workspace Server manages devices that have the Application Workspace Agent or Liquit Workspace Agent installed. It also authenticates users against an existing user directory service like Azure AD.

Multiple servers can host the same zones, to allow redundancy and spreading load across multiple servers.

The Application Workspace Web Portal is hosted by the built-in Web Server component.

For more information, see Requirements, Installation or Configuration.

Application Workspace Satellite Server

A satellite is a separate server component that can be installed within a remote site or branch location. It runs as a standalone from an Application Workspace System, does not need direct access to the SQL database but it does need HTTP(S) access to a Recast zone (the satellite server needs to be able to contact the zone and vice versa).
A single satellite can be used by multiple zones.

Scenarios in which a satellite might be useful:

Content offloading for Agents

By default, all Agents will download content directly from the primary servers. When multiple devices are connecting from a remote branch location and try to download content (new distribution or application update), it could cause internet or WAN connections to be overwhelmed.
In this scenario, one or more Application Workspace Satellite Servers could be installed within a remote branch office. After which the Agents can be configured to use the Content Access feature to locate them. This ensures that all content will be downloaded only once per Application Workspace Satellite Server over the internet or WAN connection. This is possible by using both on-demand and download stream sharing among devices that request the same content. So even when the Application Workspace Satellite Server is still in the process of retrieving the necessary content itself, it will already be able to push content to Agents. Thus, ensuring that only 1 download stream exists over the internet or WAN connection.
The satellite also caches the content locally for later requests made by Agents.

Connector to local resources behind a firewall

By using an Application Workspace Satellite Server it's possible to create connectors that access RDP hosts or Printer servers that are otherwise not directly accessible by the Application Workspace Servers that host the zone. By having an Application Workspace Satellite Server installed within the same network as the target systems still allows you to import those resources for quick and easy setup within Application Workspace.

Client connectivity
Devices are still required to connect directly to the remote systems. An Application Workspace Satellite Server doesn't proxy connectivity for end-user devices.

For more information, see Requirements, Installation or Configuration.

Application Workspace Agent

Application Workspace Agent is required to install and launch local applications on devices used to access the Application Workspace. Only a subset of the features supported by Application Workspace is available for devices that do not have the Agent installed.

Server compatibility
Application Workspace Agent is only compatible with Application Workspace Servers that run version 4.0 or later.

The Agent component is available for Windows and macOS platforms and allows managing both the OS and local applications. That means transparent and seamless application management for all applications across thousands of users demanding countless configurations. Your end-users still access their applications seamlessly and without disruption.

Main features:

- Can be installed on modern macOS and Windows devices
- Can install and launch native applications dmg, zip, tar, pkg, tar.gz and mpkg on macOS devices
- Can install and launch native applications msi, msix, appx, and exe on Windows devices
- Apply cross-platform filters and contexts

Offline Mode

Offline access to your applications allows you to use Application Workspace without having access to the Application Workspace System. Offline support can be configured per application, so it can be available without an Internet connection.
There are two options to configure a package to be available offline:

- In the Agent.json file.
- In Application Workspace, on the **Overview** screen for a package.

In Offline Mode, the Application Workspace Launcher has limited functionality:

- The Side Menu and tabs (**Workspace, Contacts, Catalog, Manage**) are hidden.
- Only the toolbar without the side menu toggler is displayed.
- The user is not allowed to change any personal settings and applications can only be installed and started.

For offline availability, the user needs to have been connected to the Application Workspace Server on the device at least once.

For more information, see Requirements, Installation, Configuration or Agent heartbeat.

Identity Sources

Users and groups are synchronized with an existing user directory service. Each Application Workspace Server will synchronize the identities to create a local Identity cache per server. For more information, see Identity Sources.

Zone

In most use case scenarios, a Recast zone has configurations made for one organization which owns one license. Sometimes, a zone can be configured for a certain task, like a production or development system.
A zone can have one or more domains to which the Application Workspace System is listening; for example, if you need a different look and feel of the Application Workspace for each branch of your organization.
In case of a multiple zone setup, they all share the Application Workspace System resources (connectors, back-end components and identity sources) for cost reduction.

> **Licensing**
> Every zone in Application Workspace needs its own license.

Primary vs non-primary zones

After you install the first Application Workspace Server required for a new Application Workspace System, the primary zone and local admin account are automatically created.
You can later add how many non-primary zones you like, all of them will be created on top of the primary one. There can be only one primary zone within an Application Workspace System, but you can choose which zone you want to be primary after you finish the configuration of your system.

A primary zone allows you to configure settings and tasks at the system level (e.g. Email servers) whereas a non-primary zone allows you to configure settings and tasks only at the zone level.

Zone permission vs system permission

For more details see Permissions.

Content Store

All content (icons, background images, setup files) that are uploaded to Application Workspace will be stored in the Content Store. Files that are uploaded to the Content Store will automatically make use of the built-in deduplication feature of Application Workspace. This feature works across zones for increased storage efficiency.

Local content will be replicated among all Application Workspace Servers within a database. This ensures the high availability of all content.

Database

Microsoft SQL or Azure SQL is used to host all data within your Application Workspace. The database is accessed by the Application Workspace Servers. See Requirements for which types of databases are supported.

Serverutil

A standalone configuration utility which can be used to register the local device as a new server within an existing

Application Workspace database and to change the `Server.json` file. For more information, see Serverutil.

Load-balancing

A load balancing solution is required to enable redundancy and for spreading the load across multiple Application Workspace Servers. For more information, see Load balancing.

Liquit Workspace Agent

End of support announcement

3.10 is the last version of Liquit Workspace Agent and it supports all actions and filters that have been introduced in Liquit 4.0. Other features like Device Registration and Agent settings are not supported. Liquit Workspace Agent will not be updated to support new actions and filters beyond this version.

Features that are not supported by the Liquit Workspace Agent:

- Download resume support for content
- Intelligent content distribution
- macOS support
- Certificate based device registration
- Certificate-based device authentication
- Zone configured Agent settings

For more information, see Requirements, Installation or Configuration.