

Hitachi Content Platform Anywhere Enterprise

v7.5

Portal and Edge Filer 7.5 Release Notes

This document describes features, licensing information, and known issues for the 7.5 release of HCP Anywhere Enterprise Portal and Edge Filer.

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Preface

About this document

This book describes the release of the HCP Anywhere Enterprise Edge Filer and HCP Anywhere Enterprise Portal.

Document conventions

This document uses the following typographic convention:

Convention	Description
Bold	<ul style="list-style-type: none">Indicates text in a window, including window titles, menus, menu options, buttons, fields, and labels. Example: Click OK.Indicates emphasized words in list items.
<i>Italic</i>	Indicates a document title or emphasized words in text.
Monospace	Indicates text that is displayed on screen or entered by the user. Example: <code>pairdisplay -g oradb</code>

Intended audience

This document is intended for HCP Anywhere Enterprise users.

Accessing product downloads

Product software, drivers, and firmware downloads are available on Hitachi Vantara Support Connect: <https://support.hitachivantara.com/>.

Log in and select Product Downloads to access the most current downloads, including updates that may have been made after the release of the product.

Getting Help

Hitachi Vantara Support Connect is the destination for technical support of products and solutions sold by Hitachi Vantara. To contact technical support, log on to Hitachi Vantara Support Connect for contact information: https://support.hitachivantara.com/en_us/contact-us.html.

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Chapter 1. Hitachi Content Platform Anywhere Enterprise Edge Filer

Hitachi Content Platform Anywhere Enterprise Edge Filers (HCP Anywhere Enterprise Edge Filers) seamlessly combine collaboration capabilities, local storage, cloud storage, and data protection functionality in a single, cost-effective package.

HCP Anywhere Enterprise Edge Filers are available as software-based virtual gateways in a virtual environment. HCP Anywhere Enterprise Edge Filers enable you to do the following, dependent on the license:

- Share files across your network.
- Synchronize folders across your network and the cloud, including keeping the main storage on the cloud with stubs saved on the HCP Anywhere Enterprise Edge Filer. A stub is a file with a tiny footprint that contains the metadata about the file, such as the file name, size, and modification date. Only the folder and file metadata and not the actual file content is saved locally.

Using the HCP Anywhere Enterprise Edge Filers, connected to a HCP Anywhere Enterprise Portal, data is transparently synchronized and saved between the HCP Anywhere Enterprise Edge Filer and the HCP Anywhere Enterprise Portal Global File System.

Main Features

- **Migration of a File Server to a HCP Anywhere Enterprise Edge Filer**
You can migrate a file server to the HCP Anywhere Enterprise Edge Filer. After the migration has completed, end users who are familiar with a given folder structure and shares, as well as a given permission scheme continue to see the same folder structure, shares, and permission scheme. This enables the migration from a current file system to the HCP Anywhere Enterprise Edge Filer without the need to apply any structural changes such as flattening the folder structure or simplifying the permissions scheme.
- **Infinite File Capacity**
Intelligent caching technology delivers unlimited file access to office users, with visibility to all organizational files centralized in the HCP Anywhere Enterprise Edge Filer. Users enjoy easy collaboration across offices and endpoints with no local storage restraints, and files are dynamically cached from a secure cloud to designated HCP Anywhere Enterprise Edge Filers.
- **Deduplication on HCP Anywhere Enterprise Edge Filers**
HCP Anywhere Enterprise Edge Filers support file-level deduplication that reduces physical cache storage and improves performance when accessing stub files that already exists as another file on the HCP Anywhere Enterprise Edge Filer. Files with the same content are linked to the same on-disk data, instead of taking twice the disk space. A deduped file, upon being modified, is populated with the underlying data.
- **Maintain Local File Access**
For cloud storage to be truly effective for remote file access and sharing, users must be able to work and collaborate on cloud files as if they were stored locally. HCP Anywhere Enterprise Edge Filers use smart caching to accelerate file access speeds for remote users, ensure availability even when disconnected from the cloud, and enable users to maintain familiar workflows.

- **Distributed Enterprise**
Customers with many sites, dispersed across large geographical areas. Hitachi Vantara's scalable cloud-enabled platform supports large deployments, including remote locations with unreliable or slow Internet connections.
- **Local Quota Enforcement**
Local quotas are assigned per cloud drive folder on the HCP Anywhere Enterprise Portal and enforced on all the HCP Anywhere Enterprise Edge Filers accessing the folder. When a file is added to the folder on the HCP Anywhere Enterprise Edge Filer, and the folder quota has been exceeded, an error is displayed and the file is not added to the folder.
Note: Enforcing cloud folder quotas on HCP Anywhere Enterprise Edge Filers requires defining the folder quota on the HCP Anywhere Enterprise Portal as well as defining the HCP Anywhere Enterprise Messaging Service on the HCP Anywhere Enterprise Portal.
- **Support for Access to Storage Behind a Proxy Server**
Direct uploading and downloading to and from storage works even if the HCP Anywhere Enterprise Portal is behind a proxy server.
- **Centralized Management**
HCP Anywhere Enterprise Edge Filers can be managed from a single pane of glass, including usage monitoring, upgrades, and remote troubleshooting. Regardless of the number and location of sites, template-based management, configurable alerts and other automated features allow for efficient, trouble-free management.
- **Zero-Minute Disaster Recovery**
Ensure business continuity and productivity for remote offices with immediate disaster recovery capabilities. Should an outage occur, users are redirected to secure direct-to-cloud file access without interruption. Seamless ACL enforcement on both the local HCP Anywhere Enterprise Edge Filer and the HCP Anywhere Enterprise Portal ensure zero degradation in user experience in cloud failover scenarios. HCP Anywhere Enterprise Edge Filers can save organizations \$1,000s per office by replacing expensive, redundant failover hardware.

Licensing HCP Anywhere Enterprise Edge Filers

When connecting a HCP Anywhere Enterprise Edge Filer to a HCP Anywhere Enterprise Portal, the available licenses are provided as part of the connection procedure. The following licenses are available: EV16, EV32, EV64, EV128, EV256:

	Basic License		Advanced License		
	EV16	EV32	EV64	EV128	EV256
Maximum RAM	8GB	16GB	32GB	64GB	128GB
Maximum Storage	16TB	32TB	64TB	128TB	256TB
Maximum vCPUs^a	4	8	16	32	64
Maximum recommended users	500	1000	3000	5000	5000

- a. The normal edge filer usage is memory and network intensive and not CPU intensive. The number of vCPUs allocated for the HCP Anywhere Enterprise Edge Filer should take this in to account.

Security Considerations

Hitachi Vantara is constantly looking at ways to improve security. Hitachi Vantara recommends using the latest software for optimum security.

Installing HCP Anywhere Enterprise Edge Filers

For installation details, refer to the installation guide for your platform.

Known Issues

ID Number	Description
SP22656	After configuring a local quota, an email is not sent from the HCP Anywhere Enterprise Edge Filer when the quota is exceeded.
APP-22352, APP-22387	Known issues when enabling deduplication: <ul style="list-style-type: none"><li data-bbox="453 758 1435 852">• In certain scenarios when the cache size is large in comparison to the HCP Anywhere Enterprise Edge Filer storage, the usage before deduplication can be greater than the usage after deduplication.<li data-bbox="453 852 1435 976">• After enabling deduplication, after running a migration job, results in automatically re-indexing the file system. Rebooting the HCP Anywhere Enterprise Edge Filer during the re-indexing results in files that were not yet re-indexed never being evicted.

Chapter 2. Hitachi Content Platform Anywhere Enterprise Portal

HCP Anywhere Enterprise Portal is a scalable cloud service delivery platform that you install at your own data center or in a cloud environment and use to create, deliver and manage cloud storage applications, including a Global File System and file access via stubbing/caching.

HCP Anywhere Enterprise Portal facilitates access to cloud storage services; handles data protection and file sync & share services; used for provisioning and monitoring global file services. This is the beating heart of the system and is the component that will run in the customer's datacenter or VPC. The HCP Anywhere Enterprise Portal ensures data consistency, maintains version history, and facilitates file sharing among users, regardless of their access method. Both global source-based deduplication and data compression are used to ensure that only incremental data changes are transferred for storage in the cloud, and that data blocks are stored only once. This dramatically reduces storage capacity needs and overall network traffic. You extend the global file system to users, via HCP Anywhere Enterprise Edge Filers, HCP Anywhere Enterprise Drive Share (agents), and HCP Anywhere Enterprise Connect. The HCP Anywhere Enterprise Portal ensures data consistency, maintains version history, and facilitates file sharing among users, regardless of their access method. Both global source-based deduplication and data compression are used to ensure that only incremental data changes are transferred for storage in the cloud, and that data blocks are stored only once. This dramatically reduces storage capacity needs and overall network traffic.

HCP Anywhere Enterprise Portal enables you to create one or more tenants, called team or virtual portals. These tenants are accessed by end-users and management staff via web-based interfaces. HCP Anywhere Enterprise Edge Filers and endpoint HCP Anywhere Enterprise Agents are centrally managed from HCP Anywhere Enterprise Portal using a single web-based console. Template-based management, centralized monitoring, customized alerting and remote software and firmware upgrade capabilities make it easy to manage HCP Anywhere Enterprise Edge Filers as well as individual endpoints – up to hundreds of thousands of connected devices – with no need for on-site IT presence in remote locations.

Files are centrally stored and protected, while users can easily access them everywhere. On top of the all-in-one global namespace/filesystem approach, Hitachi Vantara allows its customers to achieve the following goals:

Military-grade security – A private and secure architecture powered by end-to-end encryption, advanced authentication, anti-virus, DLP, and behind-the-firewall deployment.

Global deduplication – Most modern storage solutions apply deduplication only to centrally stored files. Hitachi Vantara has taken deduplication to the next level, applying the algorithms at both cloud and edge. Not only does the Portal support global deduplication, but HCP Anywhere Enterprise Edge Filers and HCP Anywhere Enterprise Drive Share clients offer source-based deduplication, greatly reducing the size of files being sent to the cloud and lowering storage costs substantially.

WAN optimization – To overcome bandwidth and latency limitations, a slew of optimization techniques are used in order to reduce file sizes and transfer times to/from any access point.

Intelligent caching – Every HCP Anywhere Enterprise Edge Filer and HCP Anywhere Enterprise Drive Share application comes with a built-in file cache. Caching accelerates remote access, plus it enables access points to “view” the full file storage space, and have on-demand access to every available file.

Managing a large global file system, with thousands of access points and tens of thousands of users, can be quite challenging. To simplify the process and support scale, to tens of thousands of users and sites, the HCP Anywhere Enterprise Portal comes with advanced management tools, including template-based automation. In addition, HCP Anywhere Enterprise Portal comes with rich activity dashboards and analytics, allowing administrators to observe, monitor and troubleshoot every aspect of their global file system.

A HCP Anywhere Enterprise Portal installation comprises a cluster of one or more VMs (servers). Each server can host any combination of the following services:

- **Main database.** Only one server can host the main database. The server that hosts the main database is called the primary server.
- **Secondary replication server.** A passive database service to replicate the primary server. During server installation, you can turn on the replication service and select the primary server from which to replicate.
- **Application service.** This server accepts connections and handles requests from Web and CTTTP clients. Application servers are added to the cluster to increase client handling capacity. Any servers that are enabled as application servers automatically balance the connected clients between them, allowing for maximized capacity and availability.
- **Messaging server.** This server enables sending notifications from the HCP Anywhere Enterprise Portal to various consumers, for example the Varonis Data Security Platform, which is a connector running on top of the HCP Anywhere Enterprise Messaging Service. In production environments that use the messaging service, the HCP Anywhere Enterprise Portal must include three application servers defined as messaging servers.
- **Document preview server.** This server is used to process document preview requests. The document preview server supports high availability. You can install one or more servers, in order to ensure uninterrupted document preview generation and redundancy in the event of a server failure.

Team portals can be defined within a single HCP Anywhere Enterprise Portal installation. The global administrator manages the creation and default settings for team portals.

Security

HCP Anywhere Enterprise Portal incorporates multiple layered security features to ensure that your data is protected whether in transit or at rest:

- You can deploy the portal either on-premise or in a virtual private cloud (VPC) to keep your data within your network and 100% behind your firewall.
- All data is encrypted before it is sent to the cloud using AES-256 encryption and remains encrypted as it is stored.
- All WAN transfers use Transport Level Security (TLS) protocol over the WAN, preventing unauthorized interception of data transfers.
- HCP Anywhere Enterprise Portal uses cryptographic libraries certified with FIPS 140-2.

- Manage your own encryption keys or use personal passphrases per user to prevent privileged administrators from accessing data. Password policy enforcement ensures that passwords have a minimum length and complexity, and that the password is changed frequently.
- Use email and SMS-based two-step authentication for external file sharing to ensure only intended parties can access files. You define rules based on file size, name, or type that deny or allow files to be shared externally or uploaded to your network.
- HCP Anywhere Enterprise Portal provides role-based access control, using Active Directory or LDAP roles and groups to control access to data and set up administrator roles.
- HCP Anywhere Enterprise Portal interfaces with Single Sign-on (SSO) management tools to provide seamless user authentication and avoid duplicate credentials.
- HCP Anywhere Enterprise Portal integrates with leading Anti-Virus, EMM and DLP tools ensure that security and governance follow the data.

Multi-Cloud Global File Services

- **Unlimited Scalability**
With elastic multi-cloud scaling, the HCP Anywhere Enterprise Portal manages petabyte-scale global file services for thousands of distributed sites and users. Seamlessly add storage capacity using private or public cloud storage resources, without impacting file access at the edge. No need for additional hardware, truck rolls or new appliances to increase capacity.
- **Fast and Easy File Access**
All users at all sites always have secure access (at office and home) to the latest file version and see file changes in real time. HCP Anywhere Enterprise Portal syncs files from any device and accelerates file access speeds using predictive fetching, smart caching and a variety of WAN optimization techniques. The unified approach enables easy access to the Global File System from your HCP Anywhere Enterprise Edge Filer, or desktop .
- **Modern Multi-Site Collaboration**
Real-time collaboration among distributed teams accelerates workflows and improves productivity. Using HCP Anywhere Enterprise Portal's Global File System, any number of users can edit, collaborate, and share files as if they were working under one roof.
- **Global Namespace**
Users can access any file from any location subject to their access rights. Administrators define *zones* which set the unique privileges of each site. These zones can range from a specific folder to the entire corporate file system. No need to define individual file systems and manage data migration and separate copies.
- **Cloud Data Migration Tools**
Easy-to-use data migration tools enable enterprises to scope data assets and move data seamlessly across different cloud and NAS storage systems without any system downtime or end user interruption. Preservation of Windows NT ACL permissions enables IT administrators to replicate file structure from legacy file system to HCP Anywhere Enterprise Portal quickly and efficiently.

Data Management and Service Orchestration at Scale

- **Centralized Management**
Orchestrating and managing unstructured data across thousands of endpoints and remote offices across multiple clouds, the HCP Anywhere Enterprise Portal provides comprehensive insight and control over organizational data from a single console. It aggregates and audits every aspect of worldwide file storage, sharing and access across the enterprise, eliminating Shadow IT and strengthening data governance. Manage anywhere from tens to hundreds of thousands of subscribers. Control user access, subscription plans, and add-ons per user account, and view real-time storage usage and account status.
- **Real-Time Event Monitoring and Reporting**
Centrally monitor and audit all events pertaining to the cloud service. Run and export detailed reports on a variety of usage parameters, including storage usage, bad files, snapshot status, and more. Generate user reports that are automatically emailed as PDF attachments.
- **Streamlined Service Orchestration and Integration**
Native service orchestration features let you create, manage and monitor diverse enterprise file services thru a zero development, wizard-driven process. Ready-to-use connectors simplify integration with cloud automation systems, so you can manage HCP Anywhere Enterprise-based services like any other cloud or *as-a-service* deployment in your organization.
- **Flexible Deployment Options**
HCP Anywhere Enterprise Portal software can be deployed on-premise (private cloud) or as a virtual private cloud (VPC) in an IaaS environment. HCP Anywhere Enterprise works with all major cloud infrastructure providers, including Hitachi, AWS, Microsoft Azure, and others. Simple API-based integration with your identity management, anti-virus, data governance, automation and mobility tools ensures zero disruption to your existing ecosystem.
- **Multi-Tenant and Multi-Tier Management**
A highly secure and isolated multi-tenant environment allows organizations to run separate programs/services at the department level, so that they can share infrastructure with full data confidentiality. The multi-tenant architecture also empowers service providers to deploy and manage their own services on their own infrastructure.
- **Enabling IT-as-a-Service Transformation**
Automate the provisioning of new user and data protection services with pre-defined service plans as part of your IT-as-a-Service transformation. Hitachi Vantara's API integrations with leading service automation, service catalog and marketplace platforms make it easy to request, provision, chargeback and support enterprise file services without manual service administration overhead.

Active Directory Running on Windows 2003

Support for the weak encryption mode used by Active Directory on Windows Server 2003 is not supported by default. When using HCP Anywhere Enterprise Portal and Active Directory on Windows Server 2003,

```
set /settings/defaultPortalSettings/activeDirectorySettings/legacyActiveDirectorySupport true. The default is false.
```

Set true to enable support for the encryption mode used by Active Directory on Windows Server 2003. This setting is false by default.

Installing HCP Anywhere Enterprise Portal

For installation details, including ports that must be open, refer to the installation guide for your platform.

Checking the HCP Anywhere Enterprise Portal Cloud File System (FSCK)

In order to check the consistency between the HCP Anywhere Enterprise Portal database and the actual data in the storage node, HCP Anywhere Enterprise Portal has a utility, FSCK, similar to the Linux FSCK utility. HCP Anywhere Enterprise Portal FSCK **must** be run only with approval from Hitachi Vantara support.

Known Issues

The following known issues apply to HCP Anywhere Enterprise Portal:

ID Number	Description
—	Only the following HCP Anywhere Enterprise Portal languages are fully supported: French, German, Hebrew, Italian, and Spanish.
PIM-3277	The HCP Anywhere Enterprise Messaging service cannot be configured when FIPS is set.
PIM-3343	After installing a proxy server, as described in <i>Hitachi Content Platform Anywhere Enterprise Portal Global Administration Guide</i> , access to files using Microsoft Office 365 does not work. Contact Hitachi Vantara for a workaround.
SP-16614	Support users with the relevant permissions cannot create user groups, add or remove users in an existing group nor delete users.
SP-17928	After changing a plan name and applying it, the process shows that zero users were updated.
SP-21622	You must complete the setup of each server before setting up another server.
SP-21806	After upgrading to version 7.5.1159.2, setting a preview server fails initially but after approximately 60 seconds starts working.

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