

### Overview

#### HPE Solutions with WEKA

AI workloads have introduced new demands on data pipelines that require an entirely new approach to the necessary infrastructure. The implications go beyond just the GPU systems being deployed. Storage for AI plays a critical role by ensuring GPUs are being fully utilized. Enterprises that attempt to use older, legacy storage systems that were not architected with AI in mind, will inevitably find their legacy infrastructure will fail to deliver the performance needed to support AI workflows. Workloads in Financial Services, Life Sciences, Manufacturing and artificial intelligence/machine learning and advanced analytics need a modern data platform that eliminates performance barriers. This is where WEKA Data Platform needs to be utilized.

HPE Solutions with WEKA now include purpose built systems using the HPE ProLiant DL325 Gen11 system, the DL345 Gen11 system, HPE Alletra 4110 EDSFF system, HPE ProLiant DL325 PlusGen10 Plus V2 (Milan), as well as HPE ProLiant DL360 G10 Plus, all of which provide a scalable data platform that is ideal for data and performance intensive workloads, with a primary focus on AI workloads. The WEKA Data Platform is built on WEKA Performance Edition software and offers a data efficient, flash-native, POSIX file system that delivers the high throughput, IOPS and low-latency needed for data intensive workloads. The system provides policy-based tiering, so data can span between NVMe flash to S3 API accessed object storage in a single namespace for easy management and cost-effective economics. The same software is available in the cloud with integrated data mobility. For performance-intensive workloads the WEKA Data Platform employs an innovative storage architecture to provide performance at exabyte scale to solve today's biggest data-intensive problems.

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#### HPE Complete - Resell of Third Party Branded Products

HPE Complete is a resource enabling the purchase of best in class third party branded products with the added reliability of Hewlett Packard Enterprise's interop assurance for a complete validated solution, all via one HPE purchase order.

##### Benefits

- One Stop Shop - Purchase complete solutions from HPE that include best in class third party branded products, all on a single HPE purchase order
- Validated solution - Confidence of The HPE interop assurance validation for third party branded products that complement HPE Storage & Server solutions
- Customer Experience - HPE Complete utilizes third-party expertise for installation, support, and warranty of their products. However, HPE Complete will step in to facilitate third-party issue resolution when required to assist in overall customer satisfaction. HPE products that are part of the overall solution are supported per HPE services and support purchased.
- Unique Value – Minimize risk, complexity and cost when deploying multi-vendor products and technologies into the HPE ecosystem. Many solutions come with custom HPE/Partner configuration and integration guides and tools.

For more information please refer **HPE Complete** on HPE.com

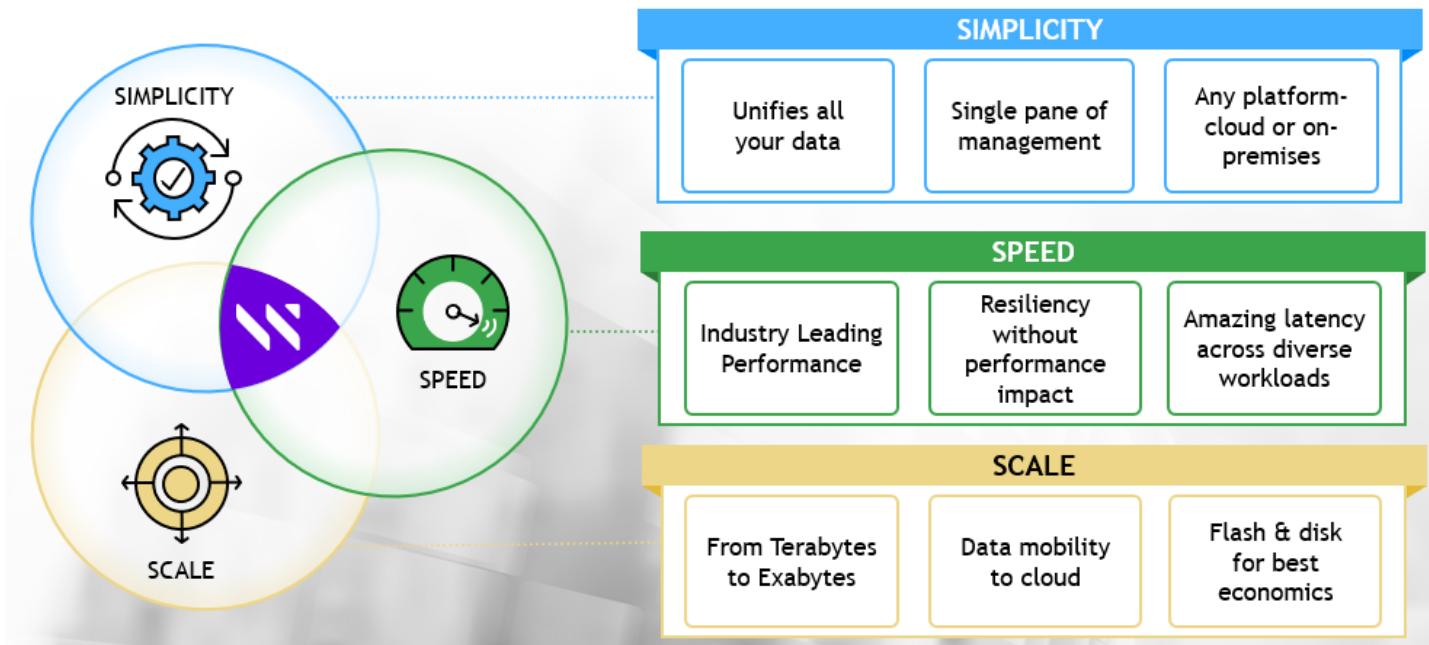
HPE Solutions with WEKA are made available by the HPE Complete Program. For the updated list of supported HPE Server node options, please see the HPE configuration guide for WEKA:

<https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00102194enw>

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Overview

The need for a data platform that accelerates business outcomes and improves productivity



WEKA Delivers Accelerated storage performance for GPU intensive workloads\*

For an example of WEKA’s impact on AI Performance, please review the following joint whitepaper: Accelerating Performance for Production AI:  
<https://www.weka.io/wp-content/uploads/files/2020/04/HPE-accelerate-performance-for-production-ai-tech-whitepaper-1.pdf>

Models

HPE ProLiant DL325 Gen11 system for WEKA

Description

HPE ProLiant DL325 Gen11 Data Solutions Configure-to-order Server for WEKA	SKU
HPE ProLiant DL325 Gen11 Server for WEKA New Cluster Tracking	S4K54A
HPE ProLiant DL325 Gen11 Server for WEKA Cluster Expansion Tracking	S4K55A
	S4K56A

HPE ProLiant DL325 Gen11

HPE ProLiant Gen11 servers with AMD EPYC processors bring a new level of compute efficiency, performance, security features, and manageability, ideally suited for AI workloads. As AI workloads become strategic, enterprises must rely on compute and storage resources that can be efficiently train, validate and deploy models for inferencing, accommodating the mixed workload characteristics common with AI. While early Machine Learning was only somewhat dependent on high performance systems, the introduction of GenAI and LLM have increased the importance of delivering higher throughput, IOPs, metadata performance, as well as lower latency critical for inferencing.



Overview

When compared with the previous generation of HPE ProLiant servers, HPE ProLiant Gen11 servers meet this challenge. With a new generation of AMD EPYC processors that support high frequency and higher core counts to run a greater number of parallel processes without sacrificing performance. DDR5 memory supplements this by offering increased bandwidth combined with greater capacity, boosting performance and density even more. The new PCI Express 5.0 (PCIe 5.0) bus enables server components to achieve an unprecedented performance level by doubling data transfer rates and the number of lanes.

The HPE ProLiant DL325 Gen11 is a very cost competitive 1U 1P solution that delivers exceptional value balancing compute, memory and network bandwidth at 1P economics. The ProLiant DL325 Gen11 supports 4th Generation AMD EPYC™ Scalable Processors with up to 128 cores, DDR5 memory at up to 4800 MT/s, 12 DIMM channels per processor, PCIe Gen5 with up to 128 lanes per socket, EDSFF drives, and up to 2200 W power supplies. The server includes HPE iLO 6 remote management and security enhancements. The HPE ProLiant DL325 Gen11 is an excellent choice for AI workloads.

HPE ProLiant DL345 Gen11 system for WEKA

Description

SKU

HPE ProLiant DL345 Gen11 Configure-to-order Data Solutions Server	S2S56A
HPE ProLiant DL345 Gen11 Configure-to-order Server for WEKA Tracking	S2S57A

HPE ProLiant DL345 Gen11

The HPE ProLiant DL345 Gen11 server is a scalable 2U 1P solution that delivers exceptional compute performance and large capacity storage options at 1P economics. Powered by 4th Generation AMD EPYC™ Processors with up to 128 cores, increased memory capacity (up to 3 TB), high-speed PCIe Gen5 I/O and EDSFF storage, with up to 20 EDSFF, this server is a superb single socket, 2U solution for your most data-intensive workloads. Enhanced security features with the silicon root of trust from HPE are built into the firmware, creating a digital fingerprint for the AMD Secure Processor to validate safe operation prior to boot. The HPE ProLiant DL345 Gen11 server provides the level of storage performance required by WEKA to support AI workloads, including those supporting Generative AI.

- Powered by the 4th Generation AMD EPYC™ Processors with 5nm technology that supports up to 128 cores at 400W, 384 MB of L3 cache, and 12 DIMMs for DDR5 memory up to 4800 MT/s
- 12 DIMM channels per processor for up to 3 TB total DDR5 memory with increased memory bandwidth and performance, and lower power requirements
- Advanced data transfer rates and higher network speeds from the PCIe Gen5 serial expansion bus, with up to 6x16 PCIe Gen5, two OCP 3.0 slots, and up to 20 EDSFF E3.S 1T NVMe
- Includes HPE Integrated Lights-Out 6 (iLO 6) server management software that enables you to securely configure, monitor, and update your HPE ProLiant Gen11 servers seamlessly from anywhere

HPE Alletra 4110 EDSFF PCIe Gen5 system for WEKA

Description

SKU

HPE Alletra 4110 20EDSFF Data Solutions Configure-to-order Server	S1R94A
HPE Alletra 4110 20EDSFF Server for WEKA Tracking	S1S83A

HPE Alletra 4110

The HPE Alletra 4110 EDSFF System is specifically designed to run the most performance demanding, data storage-centric workloads from data stores for machine learning (ML) and analytics to distributed and NoSQL databases, performance-sensitive, Software-Defined Storage and data-heavy, hyper-converged infrastructure. The HPE Alletra 4110 provides more data throughput, data processing, and data capacity in a seamless to deploy yet high-density 1U form factor, making it the ideal server to run WEKA Data Platform and the preferred system recommended for WEKA by HPE.



## Overview

Built for data-intensive applications: Ultra-dense all-NVMe with the ideal balance of data capacity, throughput, and processing; future ready for evolving demands with EDSFF NVMe, PCIe Gen 5 connectivity, 4th Gen Intel® Xeon® Scalable processors, and DDR5 memory; easy to service, standard rack depth chassis seamless to deploy in any data center, processors, memory, drives and networking, configuring the right mix of resources to meet the workload requirements. This symmetric system architecture delivers exceptional throughput with up to 62.5 GB/s (500 Gbps) of network bandwidth into the system, up to 64 GT/s for data in flight through the system, and up to 315 GB/s of PCIe Gen5 bandwidth to All-NVMe SSDs

- The HPE Alletra 4110 provides the right balance of capacity, throughput, IOPS, latency and security for data storage intensive workloads. The symmetrical system design evenly spreads resources across processors, memory, drives and networking, configuring the right mix of resources to meet the workload requirements. This symmetric system architecture delivers exceptional throughput with up to 62.5 GB/s (500 Gbps) of network bandwidth into the system, up to 64 GT/s for data in flight through the system, and up to 315 GB/s of PCIe Gen5 bandwidth to All-NVMe SSDs
- The HPE Alletra 4110 supports the highest performance NICs available, including NVIDIA CX7 and CX6, with performance of up to 400Gbps.
- The HPE Alletra 4110 has 24 DDR5 that can be configured with up to 3 TB DDR5 memory at 4800 MT/s speed. The HPE Alletra 4110 can store more data with up to 20 front-accessible new generation Enterprise and Data Center Standard Form Factor (EDSFF) or Small Form Factor (SFF) NVMe SSDs for a total of over 300 TB in an ultra-dense, standard rack depth 1U form factor. The EDSFF bays can host both flash disk (SSD) but also (in the future) Storage Class Memory (the CXL protocol support is required)
- The HPE Alletra 4110 has two 4th generation Intel® Xeon® Scalable processors totaling up to 96 cores. Moreover, it supports a GPU or FPGA accelerator
- Zero trust security from silicon to software and factory to cloud with HPE Integrated Lights Out 6, DMTF Security Protection Data Model support, and FIPS140-2 Self-Encrypting Drives.
- An intuitive Cloud operating experience built on the HPE GreenLake Cloud Platform for simplified and automated lifecycle management, including dramatically easier firmware management. This includes the option for consuming as-a-service via HPE GreenLake, enabling you to shift from owning and maintaining to simply utilizing it.

### HPE ProLiant DL325 Gen10 Plus v2 Node for WEKA

#### Description

HPE ProLiant DL325 Gen10 Plus v2 10 All-NVMe Configure-to-order Server for Software Defined Storage

HPE ProLiant DL325 Gen10 Plus v2 NVMe Configure-to-order Server for Weka Base Tracking

#### SKU

R8V67A

R8V65A

### HPE Storage DL325 Gen10 Plus v2 NVMe Data Drives Media Bundles

#### Description

HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC 2-pack MV SSD Bundle for SDS

HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC 2-pack MV SSD Bundle for SDS

HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 2-pack PM1733 SSD Bundle for SDS

#### SKU

R8V69A

R8V70A

R8V71A

### HPE ProLiant DL360 Gen10 Plus Node for WEKA

#### Description

HPE ProLiant DL360 Gen10 Plus 10 All-NVMe Configure-to-order Server for Software Defined Storage

HPE ProLiant DL360 Gen10 Plus NVMe Configure-to-order Server for Weka Base Tracking

#### SKU

R8V68A

R8V63A

### HPE Storage DL360 Gen10 Plus NVMe Data Drive Media Bundles

#### Description

HPE 3.84TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC 2-pack MV SSD Bundle for SDS

HPE 7.68TB NVMe Gen4 Mainstream Performance Read Intensive SFF BC 2-pack MV SSD Bundle for SDS

HPE 15.36TB NVMe Gen4 High Performance Read Intensive SFF BC U.3 2-pack PM1733 SSD Bundle for SDS

#### SKU

R8V69A

R8V70A

R8V71A



Overview

WEKA v4.3 Software Subscription SKUs

WEKA Performance Edition Subscription

The WEKA filesystem (WekaFS™) redefines storage solutions with its software-only approach, compatible with standard AMD or Intel x86-based servers and NVMe SSDs. It eliminates the need for specialized hardware, allowing easy integration of technological advancements without disruptive upgrades. WekaFS addresses common storage challenges by removing performance bottlenecks, making it suitable for environments requiring low latency, high performance, and cloud scalability. WekaFS is a fully distributed parallel filesystem leveraging NVMe Flash for file services. Integrated tiering seamlessly expands the namespace to and from HDD object storage, simplifying data management. The intuitive GUI allows easy administration of exabytes of data without specialized storage training.

WEKA Performance Edition Subscription is licensed on a per TB basis with 1, 3 and 5 year durations, as well as one month co-terms.

WEKA’s Distributed Data Protection Option

Data protection is the key to building a scalable storage system. Without the appropriate protection schema file systems will have to be limited in size to accommodate the rebuild time window and data exposure risk. Popular data protection schemes that deliver on scalability hurt performance while the performant schemes hurt scalability. The design philosophy of WEKA was to create a software solution that has the performance of an all flash array with the scalability and economics of the cloud. This required devising a new coding schema that would solve the problems inherent in RAID, EC, and replication. RAID cannot scale, EC has poor small file IO performance, and replication is both expensive at scale and has poor throughput. The resulting solution from WekaIO is a patented distributed data protection scheme that is faster than replication, has minimal capacity overhead, and can scale to billions of files.

WEKA Data Protection Option and Data Tiering Option are licenses that enable use of tiering to S3 object storage. DTO is less expensive - but unlike Data Protection Option, does not include snapshot to object. In most instances customers choose WEKA Data Protection, which Data Tiering is a subset functionality. Data Protection Licenses are offered for commercial, FED and Public Sector, with duration of 1, 3, 5 years, along with co-terms.

WEKA’s Data Tiering

WEKA can efficiently store hundreds of petabytes of data in object storage while keeping the most recent version of the working set of data needed for data-hungry applications in NVMe storage. It leverages tiering technology to efficiently and optimally place data in NVMe storage to drive high performance when applications need it.

The WEKA Data Platform is a single hybrid system with a fully distributed parallel file system with inbuilt tiering at its core. It combines commercial off-the-shelf (COTS) NVMe Flash with object storage in a single namespace to provide both high-performance and low latency for multiple workloads through different protocols such as POSIX, GPU Direct Storage, NFS, SMB, and S3 allowing access to all of the data through all of these protocols.

**Notes:** WEKA v4.3 subscriptions are sold based on usable capacity, with a license required for every 1TB of usable capacity. Usable capacity may be calculated by simply entering raw capacity into the WEKA Sizer <https://hpe.sizer.weka.io>

WEKA v4.3 Software Subscription SKUs

Description	SKU
WEKA Performance Edition per TB 1-year Subscription E-LTU	SOV14AAE
WEKA Performance Edition per TB 3-year Subscription E-LTU	SOV15AAE
WEKA Performance Edition per TB 5-year Subscription E-LTU	SOV16AAE
WEKA Performance Edition SLED per TB 1-year Subscription E-LTU	SOV17AAE



## Overview

Description	SKU
WEKA Performance Edition SLED per TB 3-year Subscription E-LTU	SOV18AAE
WEKA Performance Edition SLED per TB 5-year Subscription E-LTU	SOV19AAE
WEKA Performance Edition Federal per TB 1-year Subscription E-LTU	SOV20AAE
WEKA Performance Edition Federal per TB 3-year Subscription E-LTU	SOV21AAE
WEKA Performance Edition Federal per TB 5-year Subscription E-LTU	SOV22AAE
WEKA Performance Edition per TB 1-month Co-term Subscription E-LTU	SOV23AAE
WEKA Performance Edition SLED per TB 1-month Co-term Subscription E-LTU	SOV24AAE
WEKA Performance Edition Federal per TB 1-month Co-term Subscription E-LTU	SOV25AAE
WEKA Data Protection Option per TB 1-year Subscription E-LTU	SOV29AAE
WEKA Data Protection Option per TB 3-year Subscription E-LTU	SOV30AAE
WEKA Data Protection Option per TB 5-year Subscription E-LTU	SOV31AAE
WEKA Data Protection Option SLED per TB 1-year Subscription E-LTU	SOV85AAE
WEKA Data Protection Option SLED per TB 3-year Subscription E-LTU	SOV86AAE
WEKA Data Protection Option SLED per TB 5-year Subscription E-LTU	SOV87AAE
WEKA Data Protection Option FED per TB 1-year Subscription E-LTU	SOV88AAE
WEKA Data Protection Option FED per TB 3-year Subscription E-LTU	SOV89AAE
WEKA Data Protection Option FED per TB 5-year Subscription E-LTU	SOV90AAE
WEKA Data Protection Option per TB 1-month Co-term Subscription E-LTU	SOV91AAE
WEKA Data Protection Option SLED per TB 1-month Co-term Subscription E-LTU	SOV92AAE
WEKA Data Protection Option FED per TB 1-month Co-term Subscription E-LTU	SOV93AAE
WEKA Data Tiering Option per TB 1-year Subscription E-LTU	SOV32AAE
WEKA Data Tiering Option per TB 3-year Subscription E-LTU	SOV33AAE
WEKA Data Tiering Option per TB 5-year Subscription E-LTU	SOV34AAE
WEKA Data Tiering Option SLED per TB 1-year Subscription E-LTU	SOV94AAE
WEKA Data Tiering Option SLED per TB 3-year Subscription E-LTU	SOV95AAE
WEKA Data Tiering Option SLED per TB 5-year Subscription E-LTU	SOV96AAE
WEKA Data Tiering Option FED per TB 1-year Subscription E-LTU	SOV97AAE
WEKA Data Tiering Option FED per TB 3-year Subscription E-LTU	SOV98AAE
WEKA Data Tiering Option FED per TB 5-year Subscription E-LTU	SOV99AAE
WEKA Data Tiering Option per TB 1-month Co-term Subscription E-LTU	SOW00AAE
WEKA Data Tiering Option SLED per TB 1-month Co-term Subscription E-LTU	SOW01AAE
WEKA Data Tiering Option FED per TB 1-month Co-term Subscription E-LTU	SOW02AAE



## Standard Features

### Reduced Time to Results - Due to High Performance and Microsecond Latency

- HPE Solutions for WEKA are designed for flash using NVMe EDSFF and SSD technology, WEKA software accesses the underlying flash media directly in its native 4KB format so that both small files and large data sets can be processed in record time.
- Low latency InfiniBand and Ethernet (@ 100Gbps, 200Gbps and 400Gbps), support means that data does not have to be local to the client for best performance. Data is dynamically distributed across the cluster for parallel access, resilience, and consistent performance and scalability.
- Gen11 based systems (HPE Alletra 4110, HPE ProLiant DL345 and HPE ProLiant DL325 Gen11) provide PCIe Gen5 performance, supporting the latest high performance CX7 NDR network adapters from NVIDIA.
- WEKA software from HPE can leverage a single infrastructure to work on-premises or in the cloud (public or private) and elastically scales to match the requirements of your CPU or GPU resources.

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### Reduced Capex and Opex Through Improved Resource Utilization

- HPE Solutions for WEKA's full POSIX compliance means applications won't need to be re-written to take advantage of WEKA Performance Edition.
- This architecture allows shared POSIX-based access to all your data without the requirement for unnecessary copies for data protection, providing full storage resource utilization.
- Latest Multiprotocol support - POSIX, NFS, Object/S3, NVIDIA GPUDirect Storage (GDS), CSI, and SMB allowing one platform to serve your data lifecycle needs.
- WEKA supports expansion of the global namespace by tiering to any S3-compatible object store (HPE provisioned, third party or public cloud) for cost-effective storage at massive scale, while reducing the need to copy data sets.

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### Cloud Scale and Economics for Increased ROI

- HPE Solutions for WEKA's innovative Snap-to-S3 feature enables cloud bursting, remote backup to the cloud, and cloud-based disaster recovery.
- Supports private or hybrid cloud environments without modification.
- With WEKA software from HPE, you can create a flexible infrastructure tuned for HPE hardware that can handle peak workloads but which also scales for performance and capacity growth as system requirements evolve.

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### Complete Feature Set and Outstanding Performance for Demanding Enterprise Workloads

- HPE Solutions for WEKA's native flash implementation and support for high-performance interconnect fabrics helps eliminate the bottlenecks associated with legacy storage approaches, and the solution can be easily monitored, tuned, and managed using an intuitive browser-based administration console.
- The solution supports Ethernet and InfiniBand at 100Gbps, 200Gbps and 400Gbps, allowing full use of the existing network, while accommodating future upgrades for improved performance and low latency. The software-defined platform enables flexible adaptation to future generations of infrastructure.
- The WEKA software from HPE supports small and large files, random and sequential access, and accelerates metadata access with distributed parallel access.
- WEKA delivers many enterprise features that are mandatory, including snapshots, clones, encryption (at rest and in-flight), key management, user authentication, client authentication, tiering, cloud-bursting, quotas, Kubernetes persistent storage, network high availability, and much more.

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### Cloud Storage

WEKA software supports tiering to cloud and object storage environments based on the Simple Storage System (S3) interface originally created by Amazon. Cloud and object-based storage within WEKA environments may be used both for large scale data storage, cloud bursting, remote backup to the cloud, and cloud-based disaster recovery. WEKA cloud licenses may be sold as part of the Custom Agreement SKU. Reach out to your local WEKA sales team to get more information.

Cloud and object storage systems supported through the S3 interface include:

- Scality® RING
- Scality® Artesca





## Standard Features

- Amazon S3® Standard, Standard - Infrequent Access, and Reduced Redundancy Storage
- Third party S3-compliant object stores

**Notes:** HPE WEKA Software SKUs can be used in AWS, GCP and Azure.

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### Select Top-of-Rack HPE M-series Ethernet Switches

HPE M-series Ethernet switch family offers industry-leading, high-bandwidth and the lowest-latency for a cost-effective solution for Server and Storage connectivity. With cost-effective deployment options, 100GbE and beyond connectivity, M-series fabrics allows for implementing significant speed and architecture upgrades over time.

HPE M-series available with following models:

- **200GbE Ethernet Switches**
    - **SN3700M** (32 x 200GbE)
  - **100GbE Ethernet Switches**
    - **SN2100M** (16 x 100GbE)
    - **SN2700M** (32 x 100GbE)
    - **SN3700M** (32 x 100GbE)
    - **SN4600M** (64 x 100GbE)
  - **10/25GbE Ethernet Switches**
    - **SN2010M** (18 x 25GbE + 4 x 100GbE)
    - **SN2410M** (48 x 25GbE + 8 x 100GbE)
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### HPE InfiniBand Switches

- **NVIDIA Quantum-2-based 400Gb/s InfiniBand switch** (32 x OSFP ports providing 64 x 400Gb/s connections)
- **Mellanox InfiniBand EDR Switch Series** (36 x Qsfp28 100Gb/s ports)
- **HPE HDR InfiniBand Switches** (40 x QSFP56 200Gb/s ports)
- **Mellanox InfiniBand Modular Switches** (648/324/216 Ports at 100Gb/s)

**Notes:** When selecting 100Gb, 200Gb or 400Gb IB and Ethernet Switches and Adapters, the recommended system ambient temperature must be at or below 25C.

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### Supported Operating Systems for WEKAFS

- Red Hat Enterprise Linux: , 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 9.0, 9.1, 9.2
  - Rocky Linux: 8.6, 8.7, 8.8, 9.0, 9.1, 9.2
  - CentOS: 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5
  - Ubuntu: 18.04, 20.04, 22.04
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Service and Support

Service and Support for WEKA Software

WEKA v4.x software subscriptions include 24x7 remote support and both onsite and remote installation assistance from WEKA (when purchased)

Service and Support for WEKA Software is provided directly by WEKA, not by HPE. For any support and generic queries please email to [support@weka.io](mailto:support@weka.io) or on submit a case on the web at [support.weka.io](http://support.weka.io). The WEKA v4 software subscriptions provide a distinct set of new services, listed below.

Description	SKU
WEKA 1-day Professional Service	S0V36AAE
WEKA Software Remote Installation Service	S1D89AAE
WEKA Dark Site Performance Edition per TB per Year Support Service	S1G93AAE
WEKA Dark Site Any Option per TB per Year Support Service	S0W03AAE

Service and Support for HPE Hardware

Protect your business beyond warranty with HPE Services Support provides a comprehensive portfolio including Advisory and Transformational, Professional, and Operational Services to help accelerate your digital transformation. From the onset of your transformation journey, Advisory and Transformational Services focus on designing the transformation and creating a solution roadmap. Professional Services specializes in creative configurations with flawless and on-time implementation, and on-budget execution. Finally, operational services provide innovative new approaches like Greenlake Flex solution and Complete Care, to keep your business at peak performance. HPE is ready to bring together all the pieces of the puzzle for you, with an eye on the future, and make the complex simple. Connect your devices:

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Reduce time, increase diagnostic accuracy and have a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Tech Care Service and HPE Complete Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support.

Learn more about getting connected at <http://www.hpe.com/services/getconnected>

HPE Services - Service and Support

No matter where you are in your digital transformation journey, you can count on HPE Services to provide the expertise you need, when and where you need it.

Advisory and Professional Services

Our Digital Next Advisory approach can help you identify, prioritize, and implement the right transformation initiatives to create new edge experiences, get real-time insights from all your data, and modernize your IT to enable new opportunities.

Operational Services

Take your IT operations to the next level with expertise and tools that can help save your staff time, manage complexity, and identify new ways to drive efficiency and effectiveness in your IT.



## Service and Support

### HPE Services Tech Care

HPE Services Tech Care is the new operational service experience for HPE products. Tech Care goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Services Tech Care has been reimagined from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Services Tech Care is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

### HPE Services Complete Care

HPE Services Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Services experts. HPE Services Complete Care provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/completecure>

### HPE Lifecycle Services

Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Installation and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- HPE Implementation Assistance Service: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.
  - For a list of the most frequently purchased services using service credits, see the [Universal Service Credits Menu](#)

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### Other related services from HPE Services:

#### HPE Education Services

Provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

#### Defective Media Retention

An option available with HPE Services Complete Care and HPE Services Tech Care and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

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## Service and Support

### Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

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### AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a brand-new digital and data driven customer experience.

Sign into the new HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts, and powerful troubleshooting support through a new intelligent virtual agent with seamless transition when needed to a live support agent.

Learn more: <https://support.hpe.com/hpesc/public/home/signin>

HPE Support Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find HPE Support Services at <https://ssc.hpe.com/portal/site/ssc/>

### Consume IT on your terms

**HPE GreenLake** brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

### Managed services to run your IT operations

**HPE GreenLake Management Services** provide services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

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### Warranty of HPE Alletra 4100 EDSFF, ProLiant DL345 Gen11, ProLiant DL325 Gen11, ProLiant DL360 Gen10 Plus, and ProLiant DL325 Gen10 Plus v2

These products are covered by a global limited warranty and supported by HPE Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Services operational services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

**Notes:** Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at:

<https://www.hpe.com/us/en/search-results.html?page=1&q=servers%20warranty&autocomplete=0>



## Configuration Information

### HPE Solutions for WEKA Ordering rules

#### HPE Solution for WEKA Cluster Size

The minimum cluster size required for a flash tier is 6 x Alletra 4110 EDSFF, DL325 Gen11, DL325 Gen10 plus, DL345 Gen11 or DL360 Gen10 plus servers and the maximum is a combined count of servers and client hosts of 3,275. This optimizes data protection and performance through recovery operations.

**Notes:** Sizing for storage servers should be tailored to the specific workload requirement. Bandwidth, IOPS, data protection strategy and average file size should be taken into account for optimal configuration. As such it is recommended that you engage with your Hewlett Packard Enterprise representative to document your individual solution needs and design an environment with required services to deploy.

Validated WEKA configurations may include the following HPE servers: the HPE Alletra 4110 20EDSFF Data Solutions Configure-To-Order Server (S1R94A), ProLiant DL325 Gen11 (S4K54A), ProLiant DL345 Gen11 (S2S57A), or HPE ProLiant DL325 Gen10 Plus v2 10NVMe All Flash CTO Server for Software Defined Storage (R8V67A), or HPE ProLiant DL360 Gen10 Plus 10NVMe All Flash CTO Server for Software Defined Storage (R8V68A) per the HPE Complete BOM Guidelines – WEKA Solutions at: <https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00102194enw>

As part of the configuration, choose the appropriate drive bundles:

- HPE Alletra 4110 EDSFF: S1R94A, all options available in the TRK SKU menu may be configured into a solution
- HPE ProLiant DL325 Gen11 Data Solutions Configure-to-order Server for WEKA, all options available in the TRK SKU menu may be configured into a solution
- HPE ProLiant DL345 Gen11 Data Solutions Configure-to-order Server for WEKA, all options available in the TRK SKU menu may be configured into a solution
- HPE ProLiant DL325 Gen10 Plus v2 and HPE ProLiant DL360 Gen10 Plus: R8V69A, R8V70A, R8V71A NVMe Drive Bundles
- HPE ProLiant DL360 Gen10: R6S71A, R6S72A, R6S73A NVMe Drive Bundles

#### Notes:

- Unlike the WEKA Gen10 Plus systems that sell only 2 drive packs, for all WEKA Gen11 systems, drives are sold on an individual basis.
- A minimum of one and maximum of five 2-pack NVMe drive bundles is supported per DL325 G10 Plus V2, and DL360 G10 plus, i.e., an even number of NVMe drives between 4 and 10 for the DL325 G10 plus V2, and DL360 G10 plus, drives per server.
- A minimum of two and maximum of sixteen EDSFF drives is supported per Alletra 4110 EDSFF (there are no 2-drive packs for Alletra 4110 – all drives available in native Alletra 4110 menu may be used).
- A minimum of two and maximum of twenty EDSFF drives is supported per ProLiant DL325 EDSFF (there are no 2-drive packs for ProLiant DL325 Gen11)
- A minimum of two and maximum of twenty EDSFF drives is supported per ProLiant DL345 EDSFF (there are no 2-drive packs for ProLiant DL345 Gen11)
- For any of these respective systems, each node within a cluster must be configured with the same number and type of drives. Nodes within a cluster containing less than the maximum amount of NVMe drives can be upgraded with add-on NVMe drives, up to the limit per server type, to increase cluster storage capacity. A cluster can be expanded with additional nodes. After a cluster capacity expansion of add-on drives to existing nodes and/or additional nodes, each node within a cluster must be configured with the same number and capacity drives. It is recommended but not required, that spare drive bundles be ordered to reduce any potential down time; minimum of one drive bundle for each drive type installed, scaling at 1 spare bundle per 40 drives installed.



## Configuration Information

### Other Server Configurations

Items to be selected per the configuration guide include: Memory, boot drives, Networking, Racking and Optics

### NVMe Storage Tier

- New installations must choose one WEKA Performance Edition Software Subscription SKU from the list above, according to desired subscription duration (1yr, 3yr, 5yr) and subscription type (Commercial, FED, or SLED)
- The quantity of subscriptions is calculated off usable capacity, not raw capacity. OCA will automatically calculate the number of WEKA PE Subscriptions required. You can also get the usable capacity use the WEKA Sizer <https://hpe.sizer.weka.io>.

### Optional Object Storage Tier

- Choose the quantity of usable TBs of object storage. Each WEKA Data Tiering Option SKU includes an entitlement to manage tiering for 1 TB of usable object storage capacity.

### General guidelines

FED and SLED SKUs are offered to Federal and State government institutions, and SLED customers respectively. All other customers, select equivalent SKUs from the categories above.

License fee is prepaid in full and lasts for the duration listed in the SKU description.

### Example configurations

1. 300TB (calculated usable) of NVMe Storage and 700TB (calculated usable) of tiering to object storage required for a three year commercial subscription:

Qty	Description	SKU
300	WEKA Performance Edition per TB 3-year Subscription E-LTU	SOV15AAE
700	WEKA Data Tiering Option per TB 3-year Subscription E-LTU	SOV33AAE

2. 100TB (calculated usable) of NVMe Storage and 1000TB (calculated usable) of tiering to object storage required for a five year FED subscription.

Qty	Description	SKU
100	WEKA Performance Edition Federal per TB 5-year Subscription E-LTU	SOV22AAE
1000	WEKA Data Tiering Option FED per TB 5-year Subscription E-LTU	SOV99AAE



## Summary of Changes

Date	Version History	Action	Description of Change
03-Sep-2024	Version 9	Changed	Overview, Standard Features, Service and Support and Configuration Information sections were updated
04-Dec-2023	Version 8	Changed	Overview, Standard Features, Service and Support and Configuration Information sections were updated
10-Jul-2023	Version 7	Changed	Overview and Standard Features sections were updated
01-May-2023	Version 6	Changed	Overview, Standard Features, Service and Support and Configuration Information sections were updated
06-Feb-2023	Version 5	Changed	Overview, Standard Features, Service and Support and Configuration Information sections were updated
06-Dec-2021	Version 4	Changed	Added DL325 G10 plus V2 and DL360 G10 plus, Removed DL360 Gen10 node, and updated messaging
06-Apr-2021	Version 3	Changed	Added DL325 server and drive bundles, updated messaging
04-Jan-2021	Version 2	Changed	Overview, Standard Features and configuration Information sections were updated
05-Oct-2020	Version 1	New	New QuickSpecs



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