


## Overview

**\*\*For latest information on this product please use [HPE Solutions for Datera QuickSpecs](#)\*\***

## Datera

Legacy storage systems are far too expensive, force up-front overprovisioning, lack the correct self-service experience users expect from cloud storage, don't scale well, lock organizations into a single hardware vendor and limited storage device types, and require too much manual effort to maintain. Scale-out software-defined storage overcomes some of these issues but has suffered from poor performance, a lack of advanced data services, and difficult manual administration.

The Datera solution made available through the HPE Complete program; delivers a proven, enterprise-class storage software that is specifically designed to provide maximum performance block and S3 object storage to physical servers, virtual machines and containers on HPE ProLiant DL360 Gen 10 and HPE ProLiant DL380 Gen 10 servers. HPE has created 5 easy to order, optimized hardware bundles for use with the Datera software.

Datera Services on HPE Platforms			
Platform types	Bare Metal	VMs	Containers
Protocols	High Speed Block Storage iSCSI (RDMA)		S3 Objects HTTP
Storage Media	Persistent Memory	NVMe Flash	SATA Flash HDD
<b>Scale Out on HPE Platforms</b>			
<b>x86 Storage Nodes HPE ProLiant DL380 and HPE ProLiant DL360</b>			

Datera is available on HPE hardware through the HPE Complete Program. For the updated list of supported HPE Server node options, please see the [Datera Hardware Compatibility List](#) or [Data Sheet](#)

### 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 Pointnext 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

Hewlett Packard Enterprise is making the following Datera Solution SKUs available via HPE Complete:

## Overview

### Models

#### Software SKUs

Datera Primary Storage per TB 1yr Subscription 24x7 Support E-LTU	R1R87AAE
Datera Primary Storage per TB 2yr Subscription 24x7 Support E-LTU	R1R88AAE
Datera Primary Storage per TB 3yr Subscription 24x7 Support E-LTU	R1R89AAE
Datera Primary Storage per TB 5yr Subscription 24x7 Support E-LTU	R1R91AAE
Datera Primary Storage per TB 7yr Subscription 24x7 Support E-LTU	R1Z70AAE
Datera Primary Storage per TB Node-locked LTU	R1Z71AAE

#### Support and Services SKUs

Datera 1yr Premium Support and Maintenance	R1Z72AAE
Datera Design Implementation 40h Professional Service	R1R92AAE
Datera System Integration per Node Professional Service	R1R93AAE

#### HPE Hardware Bundle SKUs

HPE ProLiant DL380 Gen10 4116 2P 256GB 12LFF Hybrid Server for Datera	R0R57A
HPE ProLiant DL380 Gen10 6132 2P 384GB 8SFF NVMe All Flash Server for Datera	R0R58A
HPE ProLiant DL380 Gen10 6132 2P 384GB 24SFF SATA All Flash Server for Datera	R0R59A
HPE ProLiant DL360 Gen10 6132 2P 384GB Premium 10NVMe All Flash Server for Datera	R0R60A
HPE ProLiant DL360 Gen10 6132 2P 384GB 8SFF SATA All Flash Server for Datera	R0R61A

#### Datera Cloud Kit (Kit of Servers, Switches, and SW)

Datera Cloud Configuration Tracking	R3B26A
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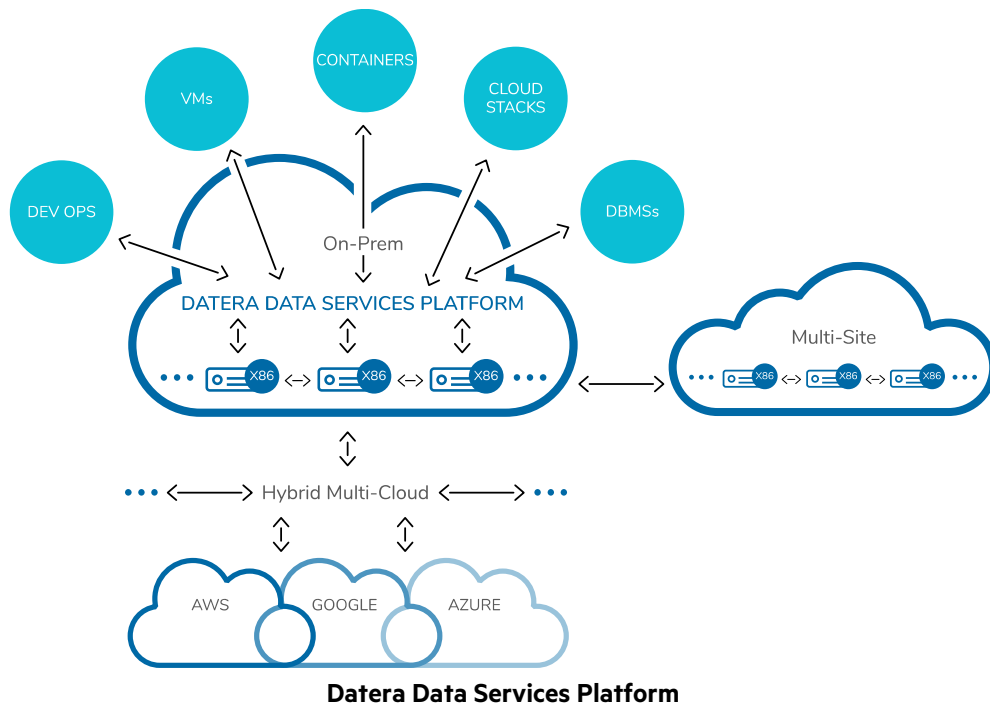
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## Standard Features

The Datera solution provides software-driven data services to power the most demanding application environments at global scale. Achieve a cloud-like data infrastructure with game-changing automation and enterprise performance, at a significantly lower total-cost-of-ownership.

Delivering consistent very low latencies, and scaling to millions of IOPS, Datera on HPE ProLiant is extremely competitive relative to all software-defined storage solutions like Dell EMC VxFlex (formerly ScaleIO). Datera uses applied machine learning to analyze infrastructure, ensure desired service levels, and continuously optimize the placement of data for the next operation without the need for human intervention.

Datera on HPE servers delivers performance with enterprise-class rich data services, far beyond first generation software-defined storage.



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## Standard Features

### Key Features

#### Data Automation

- Datera Solution utilizes a 100% programmable application programming interface (API) based on industry standard protocols (no proprietary access method) to deliver a simple way for developers to enable data for their applications.
  - Employs a self-service, cloud-like user model for on-demand provisioning.
  - Provides live data migration, non-disruptively automated through policies, and live hardware insertion lets you add server nodes on the fly without downtime.
  - Enables volume tiering to dynamically place data on the best performance tier specified through policies.
  - Utilizes applied machine learning to optimize system-wide resources to continuously deliver the right quality of service without the need for manual tuning or intervention.
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#### Enterprise Performance

- Datera Solution drives consistent competitive low latencies with advanced data services.
  - Delivers millions of IOPS across a complete data center environment.
  - Enables compression and deduplication on a cluster node or on a global basis to drive down costs and overhead.
  - Provides price/performance control at a volume level, enabling organizations to right-size the economics for their internal or external customers.
  - Delivers advanced data services per volume, including S3 object storage, policy-based tiering, stretch clustering, L3 networking, fault domains, and all the traditional enterprise-class storage features.
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#### Future-Ready Choice

- Supports a mix of heterogeneous nodes, including persistent memory, high-performance all-flash and hybrid flash nodes selected to meet workload requirements.
  - Drop in a new node and the system rebalances to incorporate that new capacity and compute power.
  - Retire a node and the system automatically rebalances to optimize the next data operation.
  - Enables enterprises to extend the life and value of their server assets and span multiple generations of hardware innovation.
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#### Data Center Awareness

- Datera Solution delivers Software-driven tunable data resiliency through automated policy-based tiering and replicas.
  - Supports container-based application environments, such as Docker, and leading orchestrators like Kubernetes and Rancher.
  - Enables virtual machine environments including VMware and KVM, as well as OpenStack and CloudStack.
  - Supports bare metal Linux deployments.
  - Provides full fault isolation to ensure continuous availability and secure multitenancy.
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## Service and Support

### Service and Support

Service and Support for Datera products are provided directly by Datera. For any support and generic queries please email to [support@datera.io](mailto:support@datera.io). Datera licensors service delivery organization will be responsible for responding with a call, assigning a severity level to the call, and determining the service Severity Level acceptable to Hewlett Packard Enterprise customer. The support request will be processed by Datera in accordance with the Severity Level agreed upon.

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### Warranty

#### Software

For a period of ninety (90) days from the license date, Datera warrants that the software will operate substantially as set forth in the applicable Datera specification when used in accordance with the terms of the Datera software license on hardware included in the

Datera hardware compatibility list. A customer's exclusive remedy and the entire liability of Datera and its suppliers under this limited warranty will be replacement of the software media. Except for the foregoing, the software is provided AS IS. This limited warranty extends only to the initial customer who purchases from Datera or through a Datera authorized reseller as the original licensee. See other Warranty Limitations and Restrictions below.

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### Restrictions

Datera's warranties as set forth herein ("Warranty") are contingent on proper use of the Datera software ("Products") on Datera qualified hardware and do not apply if (a) the Products have been modified without the written approval of Datera, (b) the Products are installed on non-qualified hardware, or (c) the Product is licensed for beta, evaluation, testing or demonstration purposes. The terms of the Warranty are limited to the remedies as set forth in this Warranty. This warranty is provided in lieu of all other rights, conditions and warranties. Datera makes no other express or implied warranty with respect to the software documentation or Datera support, including, without limitation, any warranty of merchantability, fitness for a particular purpose and non-infringement of third party rights. Datera does not warrant that any products will be error-free, or that any defects that may exist in its products can be corrected. In no event shall Datera be liable for cost of procurement of substitute goods, lost profits or any other special, indirect, consequential or incidental damages (including but not limited to lost data), however caused whether or not Datera has been advised of the possibility of such damages. Some jurisdictions do not allow limitation or exclusion of liability for consequential or incidental damages, so that limitation or exclusion may not apply.

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### Return Policy for Resellers

Stocking of Datera licenses are not recommended. Please purchase accurate quantity required to fulfil the customer order.

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### 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 quick-specs, 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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## Configuration Information

The HPE Complete Datera configuration are as follows:

**Choose step 1a or 1b.**

### Step- 1a Select the Datera Cloud Kit

Datera Cloud Kit is a pre-defined kit of Servers, Switches and SW that is easy to order and deploy in an existing datacenter. It exposes the operational simplicity of public cloud storage for enterprises' most essential applications running on virtual machines, containers and bare metal. This Kit is a pre-configured, pre-tested Datera cluster with known performance and availability characteristics. The user can quickly assess how they can benefit from cloud storage without a lot of effort. For further details, please consult the Datera Cloud Kit Solution Brief at: <https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a50000167enw>

Datera Cloud Configuration Tracking

R3B26A

**NOTE:** This Kit includes Servers, M-Series Switches, cabling, Datera SW subscription, HPE Smart Fabric Orchestrator SW and Railkits. Optionally select professional services from step 3.

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### Step-1b Select HPE Hardware Node type

#### HPE Hardware

Datera SW has been qualified on Specific HPE ProLiant DL380 Gen10 and ProLiant DL360 Gen10 servers. When possible to meet the solution requirements, select from the 5 node options listed below. Otherwise, each Datera node can consist of following storage media – Hybrid, All SATA flash or All NVMe flash. A minimum of 3 nodes of the same storage media type are needed for the Datera Data Services Platform. Additional nodes (of same or different node/media type) can be added, as needed, for scaling out. Please follow the configuration guidelines provided in this HPE HW configuration document:

<http://h20195.www2.hpe.com/V2/GetDocument.aspx?docname=a00061486enw>

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HPE ProLiant DL380 Gen10 6132 2P 384GB 24SFF SATA All Flash Server for Datera	R0R59A
HPE ProLiant DL360 Gen10 6132 2P 384GB Premium 10NVMe All Flash Server for Datera	R0R60A
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### Step-2 Select Data Services Platform Software SKU

**Datera software is available as Subscription (2a) for a given number of years (or) as a Perpetual (2b) license. Both of these are licensed on per TB of raw capacity (rounded, 0.1 - .4 rounds down, .5 - .9 rounds up).**

#### Step-2a Datera Software per TB Subscription SKU

**Datera Software Subscription SKU for a given period includes premium software support & maintenance. The quantity of the selected SKU is the sum total of storage capacity of all nodes in the Datera Data Services Platform in TBs.**

**NOTE:** For Hybrid nodes (which have both HDDs and ~6% of NVMe flash), the SKU quantity to be counted is only the HDD capacity in TBs.

For All SATA Flash or All NVMe Flash nodes, the SKU quantity to be counted is the entire flash capacity in TBs.

**Choose one from 1-year, 2-year, 3-year, 5-year or 7-year SKUs below.**

Datera Primary Storage per TB 1yr Subscription 24x7 Support E-LTU	R1R87AAE
Datera Primary Storage per TB 2yr Subscription 24x7 Support E-LTU	R1R88AAE
Datera Primary Storage per TB 3yr Subscription 24x7 Support E-LTU	R1R89AAE
Datera Primary Storage per TB 5yr Subscription 24x7 Support E-LTU	R1R91AAE
Datera Primary Storage per TB 7yr Subscription 24x7 Support E-LTU	R1Z70AAE

## Configuration Information

### Step-2b Datera Software Node-Locked License per TB of raw capacity

Datera Software Node-Locked license continues only for the life of the Certified Platform hardware on which it is originally installed. The license is not portable to new or replacement hardware. Usage Levels for node-locked licenses are limited to the quantity of raw Terabytes provisioned in the Certified Platform on which the Software is initially installed and must include recurring annual Support and Maintenance SKU (Step 3) for the same quantity as the node-locked SKU, for a minimum of three (3) years. The quantity of these SKUs is the sum total of storage capacity of all nodes in the Datera Data Services Platform

Datera Primary Storage per TB Node-locked LTU R1Z71AAE

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### Step-3 Datera Support and Services

Datera 1yr Premium Support and Maintenance R1Z72AAE

**NOTE:** Datera 1yr Premium Support and Maintenance SKU enables a year of premium software support and maintenance. The quantity of the SKU is same as the Perpetual SKU quantity for each year. This must be included for a minimum of three (3) years along with perpetual license, and on recurring basis for the duration of software use.

Datera Design Implementation 40h Professional Service R1R92AAE

**NOTE:** Optional – Architect, design and implementation services SKU for 40 person-hour block.

Datera System Integration per Node Professional Service R1R93AAE

**NOTE:** Optional – System integration services SKU and must be applied per node.

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## Summary of Changes

Date	Version History	Action	Description of Change
16-Mar-2020	Version 4	Changed	Configuration Information section was updated.
07-Oct-2019	Version 3	Changed	Added Datera Cloud Kit SKU
05-Aug-2019	Version 2	Changed	Added HPE Hardware Bundle SKUs
04-Feb-2019	Version 1	New	New QuickSpecs



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