


**Hewlett Packard  
Enterprise**

# Say "no" to downtime

HPE Serviceguard for Linux





# HPE Serviceguard for Linux(SGLX) Overview

# What does your downtime cost you?

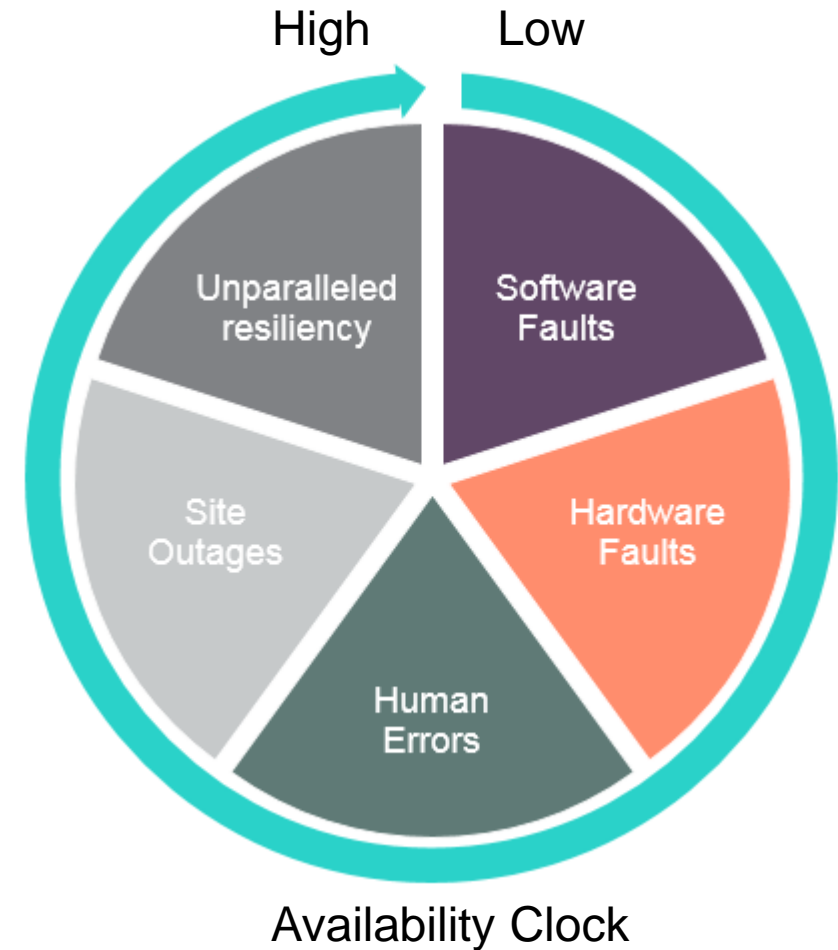
Making applications available 24x7 is not trivial

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**Average cost per hour of outage is \$740,357**

“recovering from an unplanned downtime while preserving data integrity and avoiding data corruption is an industrious job<sup>1</sup>”



1 - Ponemon Institute, Jan 2016, Cost of Data Center Outages

# Maximize uptime with Serviceguard for Linux(SGLX)



Preserve  
Data Integrity



Unattend  
Recovery



Application  
Aware



Virtualization  
Integraion



Seamless DR  
Extension



Minimize  
Unplanned Downtime

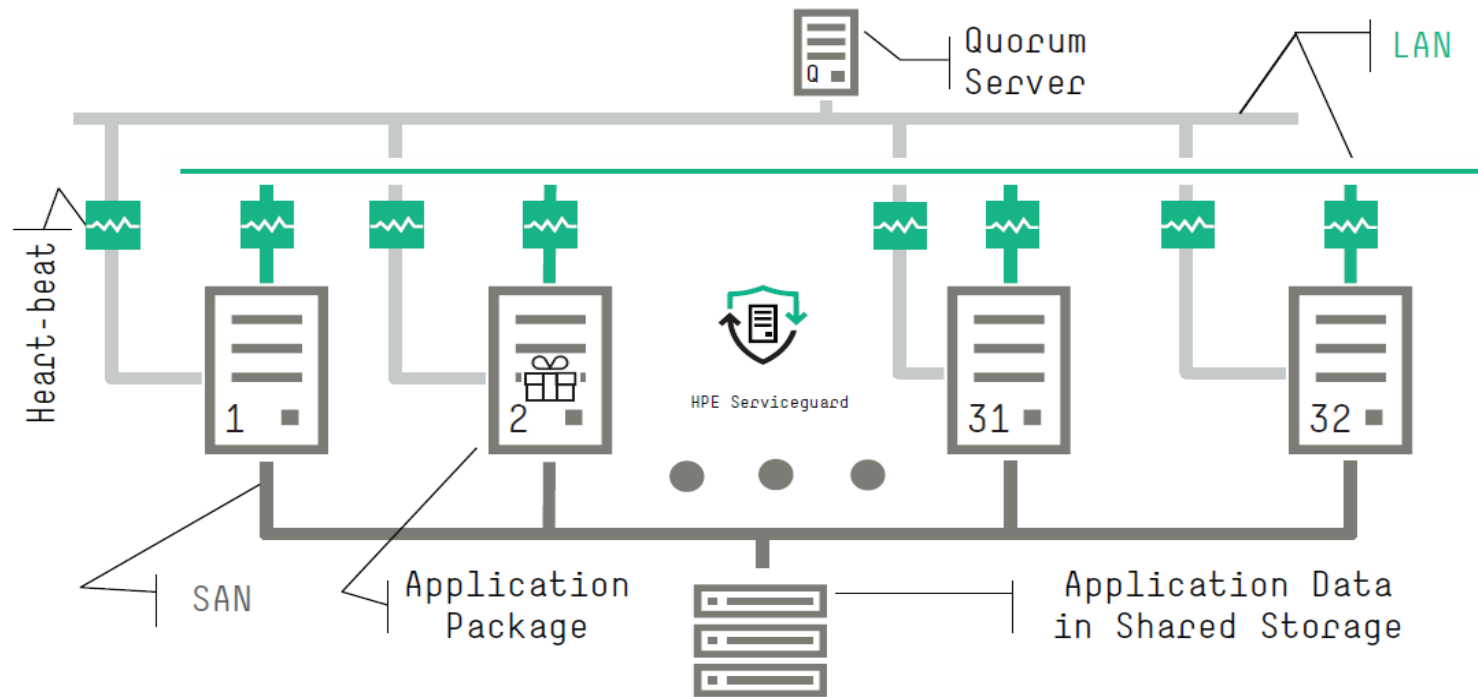


Eliminate  
Planned Downtime

Maximize Uptime

# HPE Serviceguard – Protect your entire IT stack

Detect and recover from a suite of failures



- Application Error (Hangs, User errors)
- Critical Resources (Volumes, FS etc.)
- Software Errors (OS, Hypervisor)
- Connectivity Faults (SAN, IP Network)
- Hardware Faults (Server, Storage)
- Site Failures (Full site outage)

# Fortifying Linux with Serviceguard

High Availability (HA) & Disaster Recovery (DR) for mission critical applications

Unattended  
Recovery

**Fully Automatic:** Enable quick recovery and avoids human errors  
**Quick Failure Detection:** Recover in as fast as **four seconds**<sup>1</sup>  
**Application Aware:** Application context aware smart recovery and automation  
**Disaster Recovery:** Seamlessly recover workloads across any distance

Preserve  
Data Integrity

**Data Integrity:** SCSI 3 PR, Dynamically Linked Storage, Deadman, smart quorum  
**Robust Algorithm:** Comprehensive failure detection (hardware, software, OS, application)












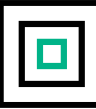
Easy to Deploy  
and Maintain

**Out-of-box integration:** **93%**<sup>2</sup> set up time reduction for DB's like Oracle, HANA, MS SQL  
**Powerful GUI:** Setup a cluster in 10 clicks, multi cluster management  
**Non Disruptive maintenance:** Rolling upgrades, Live Application Detach for live upgrades  
**Seamless Virtualization Integration:** Clustering that complements virtualization strengths

<sup>1</sup> Failover recovery observed in HPE internal lab testing. System was based on an HPE ProLiant DL380 Gen9 Server (two Intel® Xeon® processors, eighteen computing cores each) with Red Hat® Enterprise Linux 7.1 running HPE Serviceguard 12.00.30. Configuration-dependent excluding cluster reformation time

<sup>2</sup> Based on HPE internal lab analysis that shows typical manual effort for integrating Oracle Database into a cluster to require 30 engineering days. With Oracle toolkit from HPE, this integration is achieved in two engineering days or less.

# HPE Serviceguard Ecosystem Overview

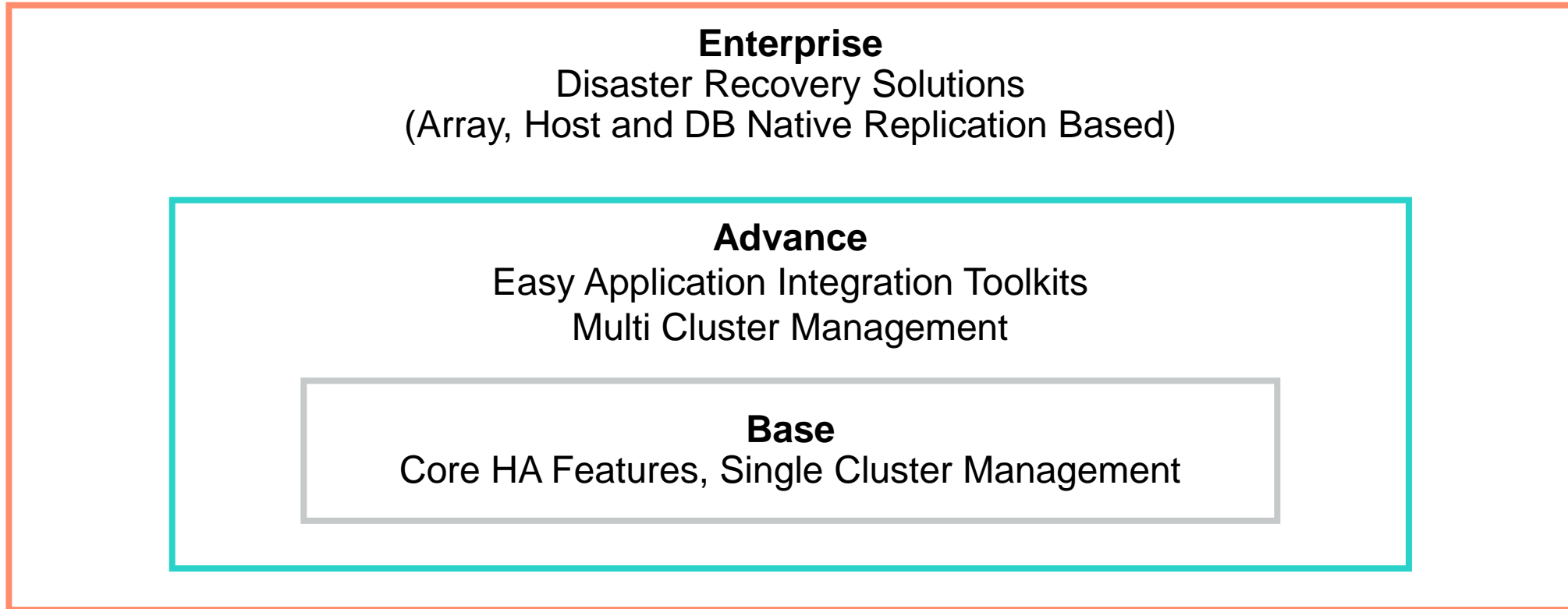
Database	Integration with several Databases. SAP HANA, Oracle, MS SQL Server, IBM Db2, Sybase etc.	  Microsoft SQL Server 
Virtualization	Leverage the best of Virtualization and Application clusters Tight integration with VMware, KVM, RHEV, MS Hyper-V	   
Operating System	Red Hat Enterprise Linux 5, 6, 7 SuSE Enterprise Linux 11, 12, 15 Oracle Linux 7	  
Server	Any x86_64 Server with Intel / AMD based Processor <sup>1</sup> HPE Superdome Flex, Superdome X, MC 990x, CS900, CS 500, TDI, Synergy, ProLiant etc. HPE SimpliVity 380 Hyperconverged platforms	
Storage	Any Storage Array that is SCSI-3 Compliant & NFS backing store <sup>1</sup> Connectivity FC, FCoE, iSCSI	

<sup>1</sup> Refer [SGLX certification and support matrix](#) for details on supported platform

# Serviceguard for Linux(SGLX) Editions

Simple 3 Products - Available on any x86\_64 Server and any Storage Array<sup>1</sup>

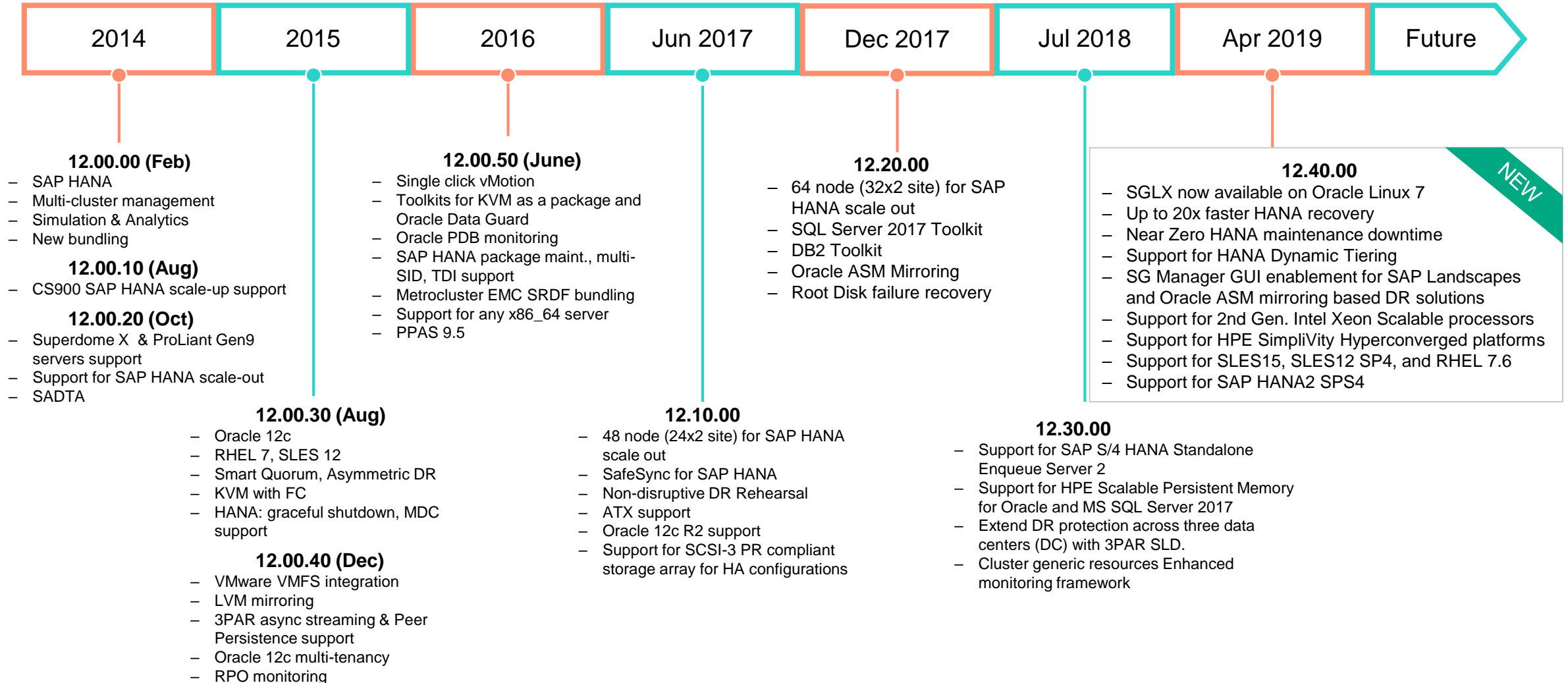
SGLX Continentalclusters available as an add-on for Base, Advance and Enterprise



<sup>1</sup> Refer [SGLX certification and support matrix](#) for details on supported platform



# SGLX 12.XX.XX release history





# What's New

## SGLX A.12.40.00

# Serviceguard for Linux Solutions – New Subscription Offering

## Optimize your TCO with added choice

### 1 Yr

1 Yr. Subscription : 60% Lower entry point <sup>1</sup>

10% lower TCO even after 3 Years

Simplified ordering process with bundled support

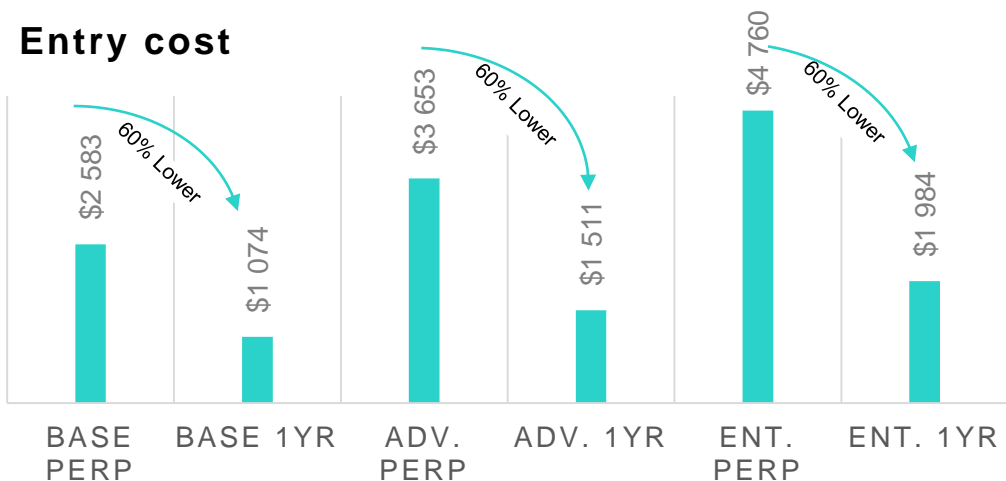
### 3 Yr

3Yr. Subscription : 30% lower cost at 3 Years<sup>1</sup>

Similar TCO at 5 Years

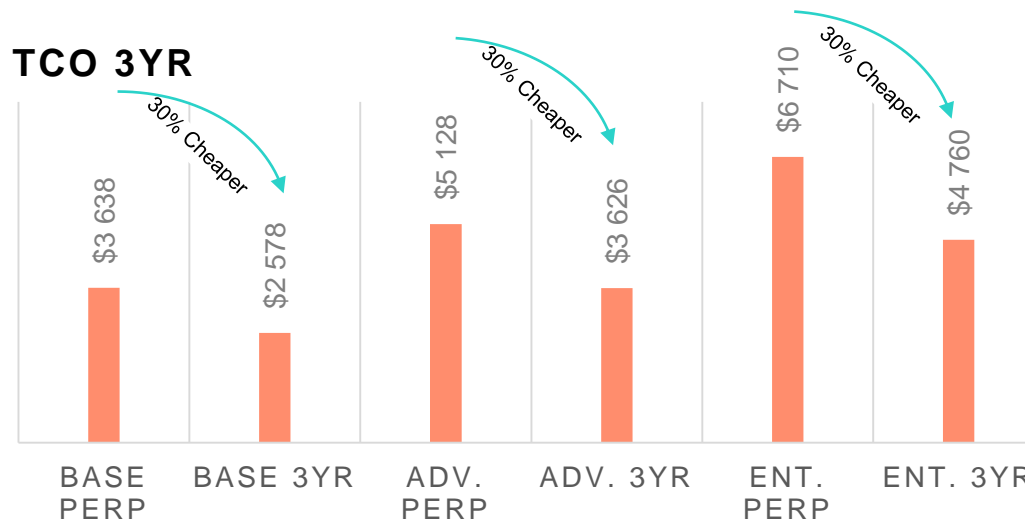
Simplified ordering process with bundled support

#### Entry cost



### 60% Lower Entry Point

#### TCO 3YR



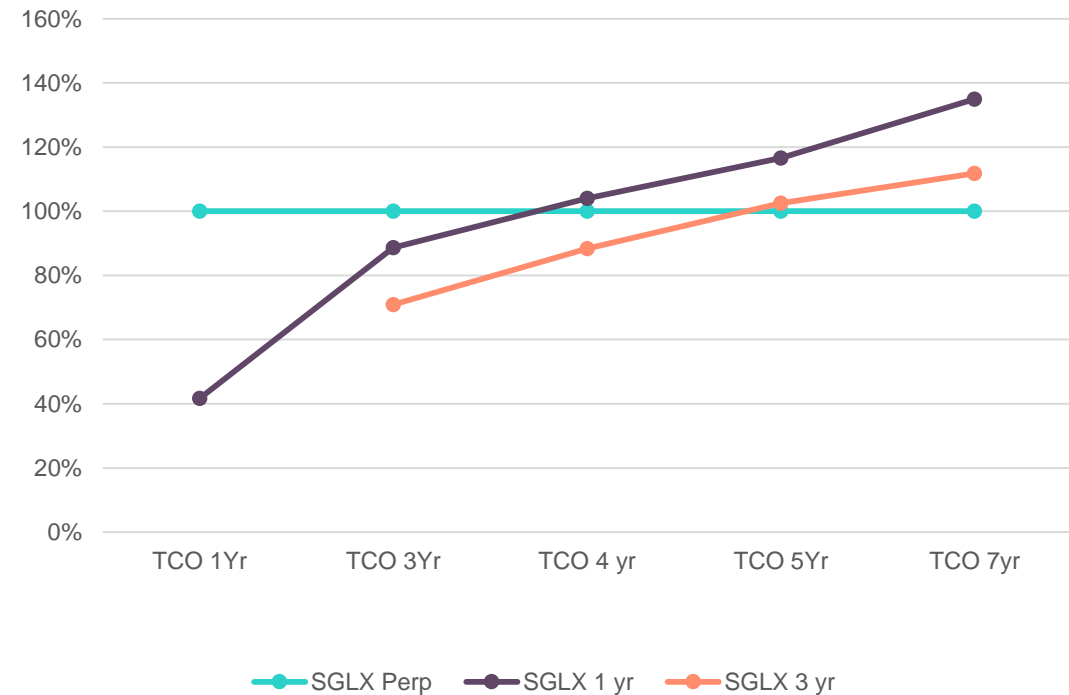
### 30% lower cost than perpetual at 3 Yrs.

# Serviceguard for Linux Solutions – New Subscription Offering

Choose the right offering based on your lifecycle requirements

Offering	TCO 1yr	TCO 3yr	TCO 4yr.	TCO 5yr	TCO 7yr
Existing Perpetual	100%	100%	100%	100%	100%
New 1Yr	42%	89%	104%	117%	135%
New 3Yr	71%	71%	88%	103%	112%

Perpetual Vs 1 Yr. Vs 3 Yr.



# Serviceguard for Linux Solutions – New features

Support for new OS, improved manageability and smarter arbitration

Support for  
2<sup>nd</sup> Gen Intel Xeon

**Support for 2<sup>nd</sup> Generation Intel Xeon Scalable processors:** SGLX solutions now available on platforms based on 2<sup>nd</sup> Generation Intel Xeon Scalable processors



Deploy SGLX  
With Oracle Linux

**SGLX now available on Oracle Linux 7** platforms in addition to SLES and RHEL.



Simplified  
Management

**New GUI functionality** to manage SAP Landscapes and Oracle ASM Mirroring DR solutions  
**New composable solutions** for Microsoft SQL Server on Linux running on HPE Synergy

Other  
Enhancements

Support for **SLES 15, SLES 12 SP4, and RHEL 7.6**  
Now deploy **SGLX HA Solutions** with **HPE SimpliVity 380 Hyperconverged** platforms  
**Smarter arbitration to maximize availability:** New cluster heartbeat health check during arbitration

# Thank you

