

Enterprise Application Continuity for SAP

Purpose-built solution to maximize uptime of your critical SAP investments

Unplanned downtime costs can significantly impact an organization:

Average cost per hour of outage is \$740,357 and recovering from an unplanned downtime while preserving data integrity and avoiding data corruption is an industrious job.

Source: Ponemon Institute, Jan 2016, Cost of Data Center Outages

- HPE Enterprise Application Continuity for SAP is part of a portfolio of industry leading SAP solutions
- HPE and SAP have over 25 years of joint partnership
- HPE powers over 30,000 SAP customers
- HPE powers over 48% of SAP HANA installations globally

The enterprise application continuity challenges

Outages for critical business applications are extremely costly. Organizations deploying large-scale SAP environments struggle with establishing a comprehensive continuous availability strategy across their HANA and non-HANA database landscape. According to SAP, continuous availability of applications is one of the critical success pillars for enterprise-grade SAP deployment that organizations cannot ignore. Protecting and recovering mission-critical SAP applications is becoming increasingly challenging with growing application complexity, increasing data volumes, and rising business demands.

Key pain points in protecting SAP applications include:

- Meeting stringent recovery time objective (RTO) and recovery point objective (RPO) for SAP applications in case of system failures
- Minimizing business disruption by effectively managing planned and unplanned down time
- Keeping overall data protection costs under control

A holistic application continuity approach

HPE Application Continuity Solution for SAP takes into account a holistic approach to minimize business disruptions due to application outages by focusing on the following areas:

- 1.Data persistence:** The first step in preserving application continuity is to persist the data onto non-volatile storage to prevent loss of data in case of database failures. Data persistence allows restoration of applications from save points and log data. This is critical for in-memory databases such as HANA, but it applies to all databases supported by SAP
- 2.High availability (HA) and failover:** Next, setup your SAP landscape with high availability in mind. One must be able to quickly and reliably failover and failback the entire landscape, applications and database, to meet the RTO/RPO requirements
- 3.Data protection:** To further protect against data loss and as a second line of defense, backup to and recover from a secondary media while delivering stringent up-time SLA
- 4.Disaster recovery:** Finally, guard from catastrophic failures via copy to a disaster recovery location

HPE solution overview

HPE Enterprise Application Continuity for SAP solution (EAC) combines HPE's high performance flash-optimized 3PAR StoreServ Storage, HPE's flexible federated StoreOnce data protection solution integrated with multiple backup software tools and SAP databases with a disaster recovery capability, and featuring HPE's industry leading fully automated failover and failback Serviceguard software for SAP to provide the comprehensive coverage for application continuity.

Flash-optimized storage with exceptional performance

HPE 3PAR StoreServ is the industry leading all-flash array offering exceptional features and performance in support of an enterprise-grade SAP deployment. Key benefits include:

- **Resiliency** – offers 99.9999% data availability guarantee program for mission critical applications. This translates to only 32 seconds/year maximum downtime
- **Speed** – one of the fastest flash-optimized storage servers in the market to deliver the most optimal application performance
- **Affordability** – thin technologies and deduplication for lower TCO
- **SAP Certified** – deployed in a large number of critical SAP installations

Integrated enterprise-class data protection

HPE StoreOnce System integrates with HPE 3PAR StoreServ to provide an enterprise grade backup/ recovery solution for SAP HANA and non-HANA databases. It can be used with flash-integrated HPE Recovery Manager Central (RMC) or other backup software. Key benefits include:

- **Lower TCO** – Industry leading compression technology reduces storage footprint by up to 20:1
- **Performance** – Speeds up backup and restore by eliminating media server and backup software via RMC
- **Simplicity** – API/plugin enables native application integration
- **Implementation Services** to deliver the infrastructure, software and application deployment of EAC
- **Support Services** to ensure long term sustained performance

High availability & disaster recovery

Databases like SAP HANA provide HANA System Replication. However, to deliver low RTO and RPO you also need robust failover and failback capability for the entire SAP landscape. HPE Serviceguard extends the HANA System Replication to fully automate failover of SAP landscapes. HPE Serviceguard is the only SAP certified high availability solution. Key benefits include:

- **SAP certified** – 25+ year as industry leading SAP certified HA solution. This is the only automated failover and failback capability available in the industry and is deployed in the most complex SAP installations
- **Full coverage of SAP landscape** – Monitors and automatically fails over all processes including hardware, software, OS, VMs, network, storage, and databases

End-to-end services

HPE offers an end-to-end support to help customers ensure application continuity. Our consulting services offer:

- **Advisory and planning Services** to anchor future success

Customer benefits

Simply put, when you engage with HPE for SAP application continuity, you enjoy the collective benefits offered by the leading SAP partnership in the world.

- Meet your most stringent RTO and RPO. HPE powers the largest mission critical SAP systems in the world
- Minimize the impact of planned and unplanned down time with an integrated end-to-end application continuity solution
- Ensure your success during and after the implementation with an end-to-end service portfolio
- Access our Centers of Excellence and over 27 years of joint co-innovation experience with SAP

Getting started

Find out how HPE can help you ensure application continuity for your SAP landscape. Get an assessment to understand where you are today with respect to ensuring the availability of your mission critical SAP landscape.

Learn more at hpe.com/partners/sap



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