



# Protect & Optimize Your Storage Solutions

Over the past few years, cybersecurity and regulatory compliance have come into sharp focus for businesses and organizations as sensitive areas of concern and continuing research. Whether they are caused by human error, system glitches, or malicious criminal acts, data breaches are among the gravest and most expensive threats to today's businesses. Organizations affected by a breach also run the risk of having their normal business operations disrupted, as well as losing valuable data, customers and reputation within their industry.

IT organizations require a systematic approach to security today to meet the new challenges posed by pervasive security threats. Leading enterprises are adopting innovative storage technologies such as safeguarded copies. They're also leveraging existing, highly effective physical air gap methods to thwart threats and deliver on their business expectations. The key to executing on such approaches lies in successful risk management.

## An effective line of defense against cyber attacks

Safe storage is a cornerstone of cybersecurity. Where and how businesses store their data is important not only to protecting their own data, but that of their customers, too. To that end, IBM's FlashSystem has added a new protection mechanism called Safeguarded Copy.



## Upscale your enterprise data security. Maintain industry relevance and cutting-edge.

- Creates immutable copies of data for Logical Corruption Protection
- Enables hidden, nonaddressable backups for more robust security
- Can be integrated with IBM Security QRadar platform for security monitoring.
- Provides simple, common implementation across IBM FlashSystem offerings
- Merges effortlessly with many high-availability (HA) and disaster recovery (DR) environments

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Key items about IBM Safeguarded Copy, which is based on technology from IBM's DS8000 storage portfolio:

## **SGC Backup Capacity**

Storage capacity is set aside for the creation of Safe Guarded Copies (SGC) of customer data. The space required varies based on the frequency and duration that backups are created and kept for. The backup capacity is thin provisioned for maximum efficiency. The backups are then taken offline by the IBM FlashSystem hardware under the direction of the Cope Services Manager (CSM) software product.

## **Production Volume(s)**

Production volumes continue to operate as usual. With remote replication, copies are created at an established DR site, either on-premise or in the cloud. These are used for traditional business recovery (site failure, natural disaster, etc.).

For a single site customer, the SGC backup capacity is placed at the production location. In a dual site environment (Production and DR locations), the SGC backup capacity is typically placed at the DR site.

## **Recovery Volume(s)**

These are used in the event of a cyber attack. SGC backups are restored to recovery volumes to allow customer staff to perform forensic data analysis, or to recovery their system to a previous point in time SGC backup. This allow them to be used without impact to current production volumes.

## **Hybrid Cloud Storage**

the storage mentioned above can be on-premise, in the cloud, or a hybrid of both. Further, FlashSystem storage is available with either traditional (CapEx model) financing, or Storage as a service (OpEx model) financing.

## **Tape Storage**

With or without the use of Safe Guarded Copy, customers also have available the purest air gap protection option available with the use of physical tape, and tape cartridges taken offsite and out of robotic libraries. Tape remains truly the last line of defense against cyber threats.

## **Think: 3-2-1**

A new catch phrase is starting to be heard in recovery circles: Think: 3-2-1. Keep at least three copies of your data, on at least two different types of media, for the single best data protection available.

Safe Guarded Copy and Tape Air Gap protection, the most robust availability combination.



Contact us to learn more about proactive approaches or to schedule an assessment of your exiting security environment and roadmap for improving it.