



IBM Storage Solutions

Platinum
Business
Partner



Problems faced



Data is growing rapidly and is unstructured

Body Worn Video captured by
MPS in a single day = 52TB



Large amounts of Data that must be kept for a long time but not necessarily accessed

Assume 7% of police video is evidential

MOPI says keep for 7 - 99 years

Evidential BWV from MPS
alone will be >100PB by 2022

By 2026, digital evidence store
will be approaching 1 EB



Spiralling costs of storing and managing this data

Using current Police approach
for storing, managing & sharing
this would cost ~£500M/year

Digital evidence requirements

**Collection & Ingestion –
Officers, Public, CCTV,
Social Media, etc.**

**MOPI Rules – keep for 7-99
years, delete at the right time**

**Auditing –who’s seen it, did
anyone mess with it??**

**Security – only the
right people can see it**

**Share with interested parties –
Investigators, CPS, HMCS,**

**Standard formats –
to facilitate sharing**

**ONE safe version of the truth –
master copy, with backup**

**Available and
Resilient capability**

**Oh – and it’s much
bigger than you think**



IBM Solutions – IBM Spectrum Software

Platinum
Business
Partner

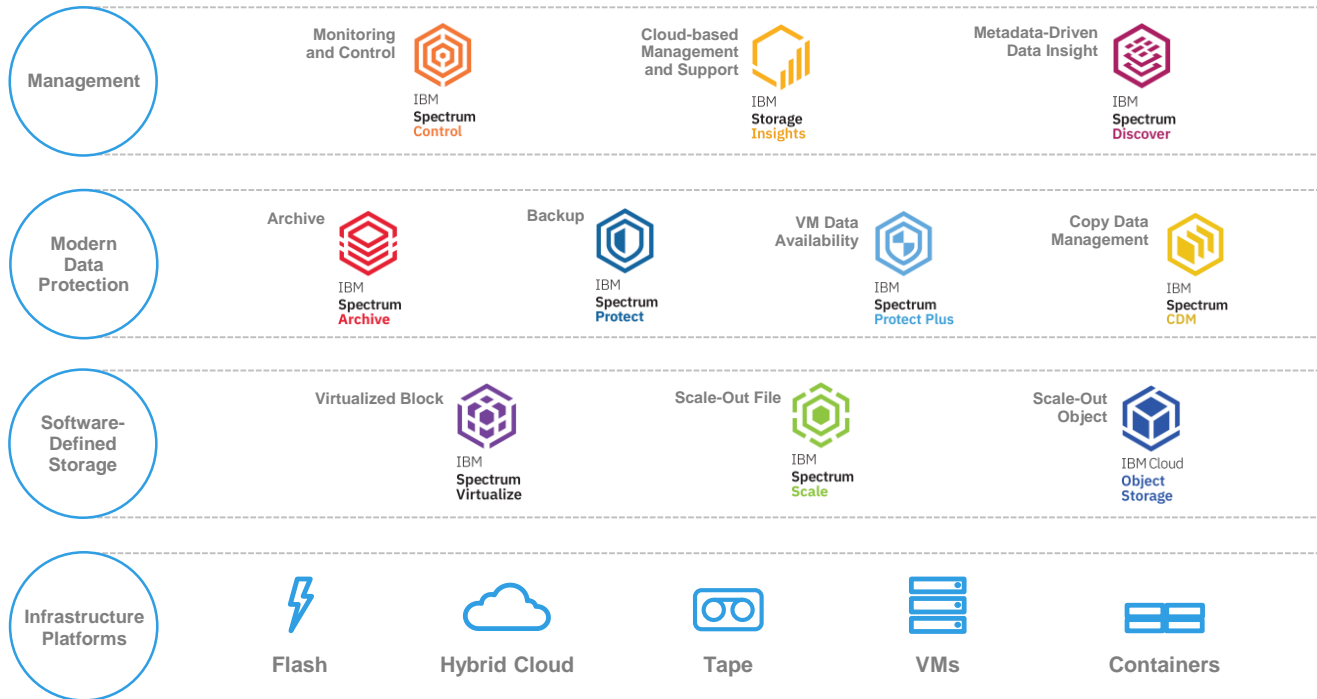


scc.com

IBM Spectrum Software



Platinum
Business
Partner












IBM Spectrum Software



Platinum
Business
Partner

IBM

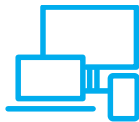


	IBM Spectrum Control	Integrated data and storage management software that provides monitoring, automation and analytics for storage
	IBM Spectrum Protect	Scalable hybrid cloud data protection for physical file servers, applications, and virtual environments.
	IBM Spectrum Protect Plus	Complete VM protection and availability that's easy to set up and manage yet scalable for the enterprise
	IBM Spectrum Virtualize	Virtualization of block storage environments on-prem and public cloud to improve efficiency, reduce cost, and simplify management
	IBM Spectrum Archive	Direct, intuitive and graphical access to data stored in IBM tape drives and libraries
	IBM Spectrum Discover	Modern AI workflow and metadata management software for exabyte-scale file and object storage with hybrid multicloud support
	IBM Spectrum Scale	Advanced storage management of unstructured data for cloud, big data, analytics, objects and more
	IBM Cloud Object Storage	Flexible and economical scalable hybrid cloud object storage with geo-dispersed enterprise availability and security
	IBM Spectrum CDM	Modernize, simplify and automate data center copy management processes

IBM Spectrum Suite key use cases for Police Forces



IBM Spectrum control - Manage your data effectively – know where data is and how it's being stored



IBM Spectrum virtualize- Sweat existing hardware assets – repurpose spend on critical projects



IBM Spectrum Protect - Secure your evidential & other critical data



IBM Spectrum Archive – Utilise and manage low cost tape systems for secure long-term archival of data



IBM Spectrum Scale – Advanced management for body camera video data and other cloud object data



IBM COS- Flexible, secure and scalable storage for objects such as evidential CCTV data and body cam footage



IBM Storage Solutions

Platinum
Business
Partner



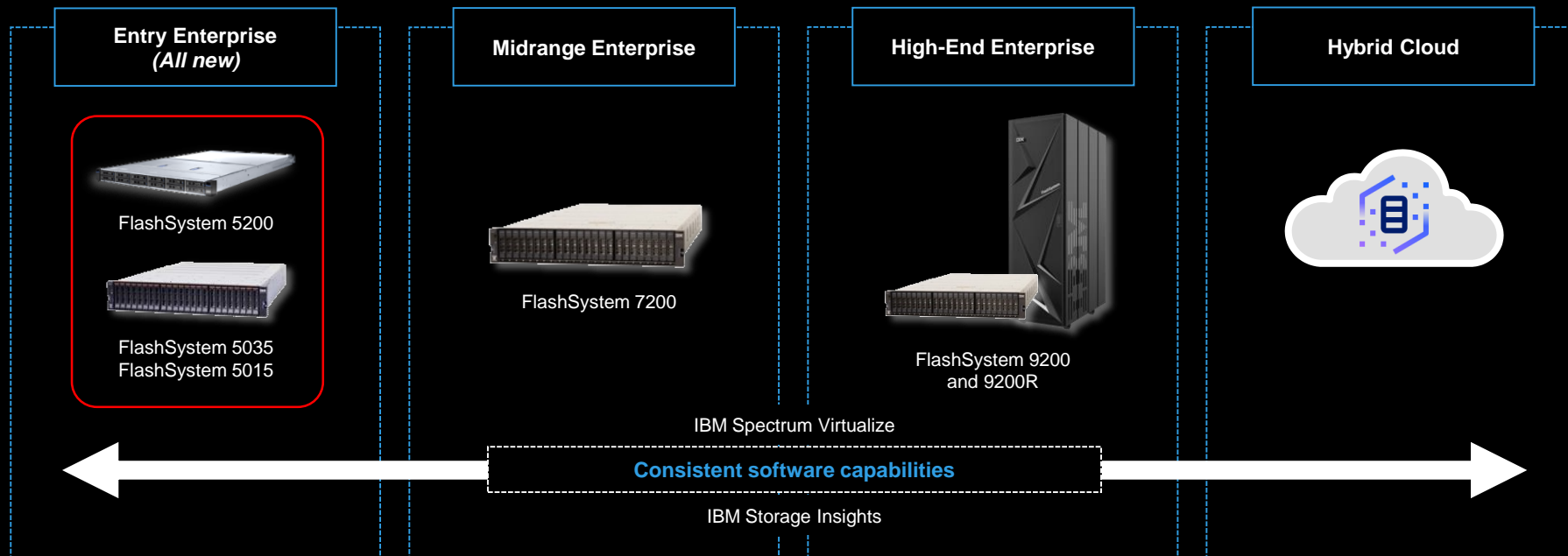
scc.com

IBM FlashSystem Family

Storage made simple for hybrid cloud

Watch the demo

ibm.biz/flashsystemdemo



Storage made simple



Platinum
Business
Partner

IBM

Reduce Cost

- Stop/Defer spending
- Remove wastage
- Repurpose assets and resources

Event Ready

- Data & application mobility
- 'New Normal' demands
- Cyber Resilient and Business Continuity

Never Compromise

- Deliver highest service levels
- Automate to optimize
- Enable the business



- Virtualise on premise and cloud
- Simplify data management & protection
- AI driven data mobility



- Do much more with less
- Make it bullet proof
- The fastest foundation



- Only pay for what you use
- Don't fall short of capacity
- All the performance always on

IBM | The importance of data tiering



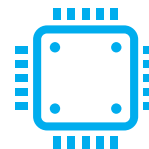
Secure critical evidential data with encryption and best in breed modern data protection solutions



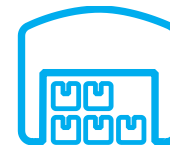
Reduce storage costs with automatic tiering of data whether on-premise or off.



IBM Cloud Object Stores for unstructured data- a cost effective way to store



No vendor lock-in. IBM Spectrum Suite Software works with over 400+ storage vendors



Utilise Tape to ensure air-gaps for security and lowest cost of storage.

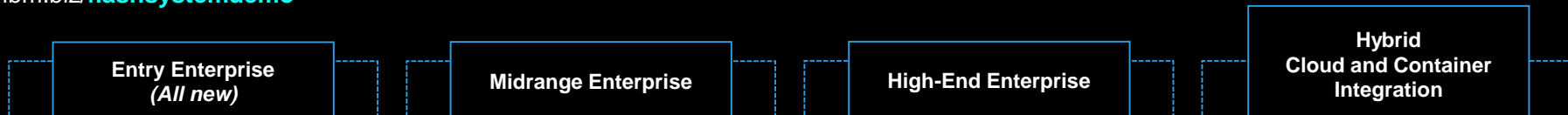
IBM FlashSystem Family



Storage made simple for hybrid cloud

Watch the demo

ibm.biz/flashsystemdemo



“With its new FlashSystem 5200, IBM has made a tremendous leap forward, packing impressive levels of performance and capacity into a 1U package. While capable enough for the data center, the form factor of the 5200 can offer transformational value for smaller organizations and edge locations.”

Scott Sinclair
Senior Analyst
ESG

Enterprise class storage made simple for Hybrid Multicloud



Platinum
Business
Partner

IBM

IBM FlashSystem Family

IBM Spectrum Virtualize Software

IBM Storage Insights (AI-based Monitoring, Predictive Analytics, and Proactive Support)



“Investments that lower IT costs are near the top of the spending list for organizations in 2021. It’s a powerful statement when one of the leading new cost-saving solutions is the IBM FlashSystem storage family, normally associated with high-end enterprise class functionality, data resilience, and performance. The new FlashSystem 5200 also allows the entry storage space to have access to an end-to-end NVMe solution, with low CAPEX options, very cost-efficient growth pathways, and comprehensive capabilities. This offering from IBM raises the bar for other vendor seeking to serve organizations that strive to substantially reduce their IT costs.”

Ashish Nadkarni

Group VP, Worldwide Infrastructure
IDC

Why IBM FlashSystem



Unmatched Performance

Unique use of QLC flash enables fastest high capacity NVMe drives on the market.

Inline compression and encryption with zero performance impact

Engineered to last 5X longer than standard NVMe drives.

Storage Class Memory drives available across the entire FlashSystem family

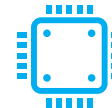


Total Visibility and Control

FlashSystem virtualization supports over 500 different controllers as well as public cloud providers so you can unify your entire storage pool.

Transparent Cloud Tiering means that cold data can be seamlessly moved to low cost object storage.

IBM FlashSystem integrates with RedHat OpenShift and comes with a library of Ansible modules for automation.



AI Driven Data Placement

EasyTier fully automated tiering and Storage Virtualization means that your entire environment can get the benefit of IBM FlashSystem.

EasyTier differentiates between NVMe flash and Storage Class Memory. Can benefit every application.

Automatic fault logging and best practice recommendations.

**IBM
FlashSystem;**

- ✓ Provides the fastest, densest and most reliable NVMe storage on the market.
- ✓ Leverages AI to boost performance, increase reliability and quickly resolve faults.
- ✓ Offers the opportunity to have single point of control for ALL storage assets

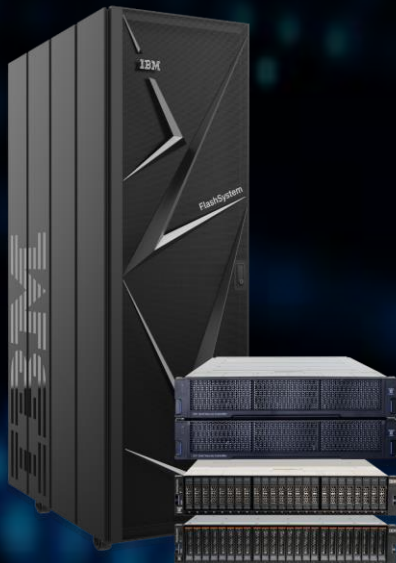
IBM FlashSystem



Platinum
Business
Partner

IBM

Driving improved outcomes



Application Owner

- Accelerate the performance of current applications
- Always get the consistent and sustained performance required
- Faster provision of new applications, both on-prem and in the cloud
- Promote line of business agility



Storage Administrator

- Provision high performance services at speed
- Simplified management - One tool to manage ALL storage assets
- Reduce maintenance time, as much as 65% of faults fix themselves
- Support data mobility with ease, enabling business agility



Finance

- Significantly reduce datacentre, software & power expense
- Sweat existing assets without limiting the business
- Improved ROI and reduced payback period on technology spend
- Program guarantees means no mid-life expense surprises

IBM FlashSystem



Platinum
Business
Partner

IBM

What customers are saying

"We achieved a compression rates that we estimate enabled us to avoid spending approximately £200,000. When you consider that we haven't compromised on performance at all – in fact, we've increased it considerably – these savings are even more impressive."

Peter Chase
zLinux & Storage Specialist
Met Office

"We saw something like a 100-fold performance increase, with our month-end batch processing cut by 71 percent, from seven hours to two hours, and day-end batch processing by 85 percent. We immediately sent the specialist team we usually have on standby away, and haven't had to call them back since, which represents a big saving."

David Bywater
Senior Technical Specialist
Coventry Building Society

"We constantly test other vendors and other storage, and we're always looking for alternatives—but we're consistently unsuccessful in finding anything that beats the IBM solution."

Owen Morley
Director of Infrastructure
Plenty of Fish

"IBM all-flash solutions are so cost-effective we can support all workloads with premium storage. With IBM HyperSwap, we can offer a true business continuity solution, with no interruptions to services even if one of our sites fails."

Michael van Doorn
Co-founder
TM-Solutions

"With IBM Storage behind us, we're confident that we can support the UK's growing digital economy while continuing to deliver exceptional value for money to the taxpayer."

Simon Navin
Senior Innovation Expert
Ordnance Survey

"With the FlashSystem connected, we can download and process images straight away with the ridiculously fast throughput we have."

Sean Wilson
AI Technical Lead
Advanced Manufacturing Research Centre



IBM Solutions | IBM Cloud Object Store

Platinum
Business
Partner



scc.com

IBM Cloud Object Store (COS)



Storage that scales with today's workloads- ideal for video footage & evidence



Reduce storage costs by up to 70%



Parallel concurrent accessible data from anywhere- ideal for sharing evidential data quickly between forces and other law enforcement organisations



Integrated real-time analysis w/ Spectrum Discover using continuous data and actions with customizable metadata



Cost effective efficiency and easy to start with TB starter configs and scalable to PB or even proven EB capacity



Stays online and easy to manage with extreme data durability and no downtimes or data migrations



Built-in security with inflight and at rest patented SecureSlice encryption and SEC 17a-4 compliant WORM immutable storage

IBM COS use cases



Platinum
Business
Partner

IBM



Optimized file access or remote file collaboration- Evidence sharing between forces and CPS



Primary storage for Big Data, video/image distribution, containers, and cloud storage- Body worn camera data and other unstructured data



Backup data always-on and lower cost access to data- cheaper and reliable backup of evidence to MOPI standards



Active archive for always-on and lower cost access to data- store more efficiently driving down future costs



IBM Solutions | Tape Storage

Platinum
Business
Partner



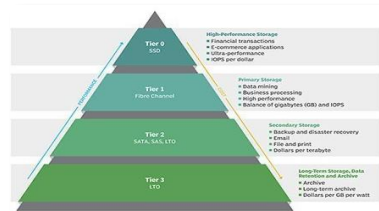
scc.com

IBM COS use cases

Simple

TIERED STORAGE

Simple policy based
data migration
Easy data access



Secure

SECURITY / AIR GAP

Encryption / WORM,
true offline data



Standardised

CUTTING COSTS FOR CLOUD & Hyperscale

Long term data retention
Easy data access



IBM TAPE use cases



Long term retention
of evidential data
adhering to MOPI
policies



Secure data -Air-gap
security, Encryption
and WORM



Cheapest method of
storage – reduce the
cost of storing in the
future



Scalable storage –
10TB per cartridge
now – 220TB in the
future- more storage
is less footprint

Where to begin

Client Storage Assessment

- **Reality:** A true reflection of your current storage environment: issues, configuration, capacity, consumption, utilisation and efficiency metrics.
- **A better option:** An optimised strategic configuration designed to deliver improved levels of service coupled with enhanced levels of capacity utilisation and efficiency
- **Business case:** A financial business case substantiating the savings that can be realised by aligning to a proposed strategic solution instead of continuing as-is today
- **Free of charge**
- **More information:** <https://www.ibm.com/sites/storage-made-simple/>

How to consume



Either

- **Pay up-front in the usual CAP-EX way**

Or

- **Pay as you consume, monthly for a solution that flexes with you**