



## Tessella Safety Deposit Box

Tessella, the world leader in digital archiving technology, has developed a 'Safety Deposit Box' to provide services to allow you to store and preserve critical digital information in a highly reliable yet accessible manner.

### What Does SDB Mean?

**Safety:** The information managed can always be found, whatever technology changes occur in the future.

**Deposit:** Acts as a storage system where digital knowledge is written, not manipulated. Accidental deletion or changes are not possible.

**Box:** Is separate from your existing operational systems. It is scalable from small departmental servers to vast silos.

### Key Features:

- Compliant with the Open Archival Information System (OAIS) reference model
- High throughput ingest including file format recognition, technical metadata extraction and virus checking
- Storage adapters for bulk storage from major suppliers
- Data management tools for full control of the archive content
- Comprehensive administration and reporting tools

- Unique Active Preservation Service combining Preservation Planning based on PRONOM and Preservation Action using third party tools
- Browsing, searching and retrieval tools
- Seamless integration into operational systems
- Scalability from small departmental archives to massive mass storage knowledge silos
- Tuneable workflows to meet your specific needs

### Modular Architecture

It can be used as a complete solution or in component parts. For example, the Digital Preservation Toolkit can link into existing systems whilst retaining responsibility for storage, or storage can be delegated to SDB whilst maintaining original resource discovery systems.

### Knowledge Management

SDB is set up to manage information in any format you want to throw at it – documents, spreadsheets, multimedia, raw experimental data, databases, emails, design information, and many more. It understands individual and hierarchical data and



also maintains a wide range of flexible metadata, metadata, security and retention information.

### Ingest Automation

Whether SDB is responsible for storage or not, it contains a wide range of tools that automate the identification and characterization of digital information as it arrives. This allows the metadata to be automatically extracted and basic safety checks such as format validation and virus checking to be performed. This needs to be performed whether the data is stored within SDB or another system.

### Storage Services

SDB provides capabilities to store either or both metadata and digital objects in a highly secure manner. These data stores are highly integrated to ensure consistent storage management. The storage is also constantly crawled to ensure bit level validation of the digital objects within the store. It is also highly scalable, from small departmental systems to massive 100Tb systems, and can work with third party bulk storage management systems.

### Resource Discovery

A massive information store like SDB comes with a range of tools allowing both the metadata and content to be searched and navigated. This can be used directly by users or from within a linked operational system.

### Active Preservation System

Tessella SDB contains a framework under which advanced preservation tools are being integrated. Based on the emerging standards encapsulated in PRONOM, this includes:

- Factual information on file formats and the software that can read and write them

- Policy information on how to establish the risk of keeping information in a file format and what can be done to migrate it
- A range of migration tools to transform formats from the old to the new

This unique approach implements both the Preservation Planning described in OAIS and Preservation Action within a flexible and updateable framework.

Tessella is also working on several research projects such as Planets to add specific tools to make SDB the most advanced preservation system in the world. These initiatives will deliver the tools to enable successful file migration or to perform other activities to keep the information alive. The tools will fit easily within the Preservation Framework.

### Integration with operational systems

The SDB framework can be integrated with operational systems such as document management, email, lab systems, design workflows, finance etc in a wide variety of configurations to suit individual needs. The links are always automatic to allow seamless interoperability wherever archive responsibility is delegated to. Tessella will provide full support to configure the system as required for each situation.

### Real practical experience

SDB is in use at 7 major archives and libraries at national, regional and academic level. By using SDB you will be joining a community of flagship organizations that are facing the problems of long term archiving together and sharing joint solutions to these challenges.

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