



# *Sygnos* **DB**

**An Intelligent Database**

**Data Sheet.**

## **Rich Profile Activity Log Management**

In small databases, changes have little effect to overall database performance. As the complexity of a database system increases along with the size of managed data, there's a need for a monitoring system to ensure the changes happening inside the database didn't affect other systems adversely.

Our log management system, built on top of our search and indexing system, simplified the process by keeping a log of changes happening inside the database, and automatically optimise the structure of the graph database as it changed. This automation process allowed the database to continuously expand without sacrificing ontological integrity.

## **Handling User-Driven Changes**

When a data steward or an analyst made changes to the data managed in the database, the systems logged the changes and self-optimised to adapt to the changes so that it will maintain the optimal graph structure.

## **Self-Learning Database**

As new objects, properties, and relationships were inserted in the database, the database system will learn about the changes and optimise the structure for optimal search and query. Some of these changes could trigger the system to retrieve more data from the data sources to ensure that the new changes were consistent with what the database system has learned about the patterns of data it managed.

## **Flexible Scalability**

As the system self-monitored itself, the log of these changes can be queried and retrieved for scalability and flexibility analysis. In fact, this process is what the system was already doing when it maintains structural integrity of the graphs it managed. When required, users can query the changes on the graph that they deem important, and the inputs that made the changes. This capacity, adapted from Blockchain technology, allowed the system to ensure that every data stored in the system will remain persistent as the database expanded.

For Further Information, Please Contact:



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