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INDUSTRY LEADING DATA MANAGEMENT FROM SENTINEL PARTNERS

In this document you'll find more detail about...

1 How our platform works

2 Our modular, low code, no code approach to data engineering

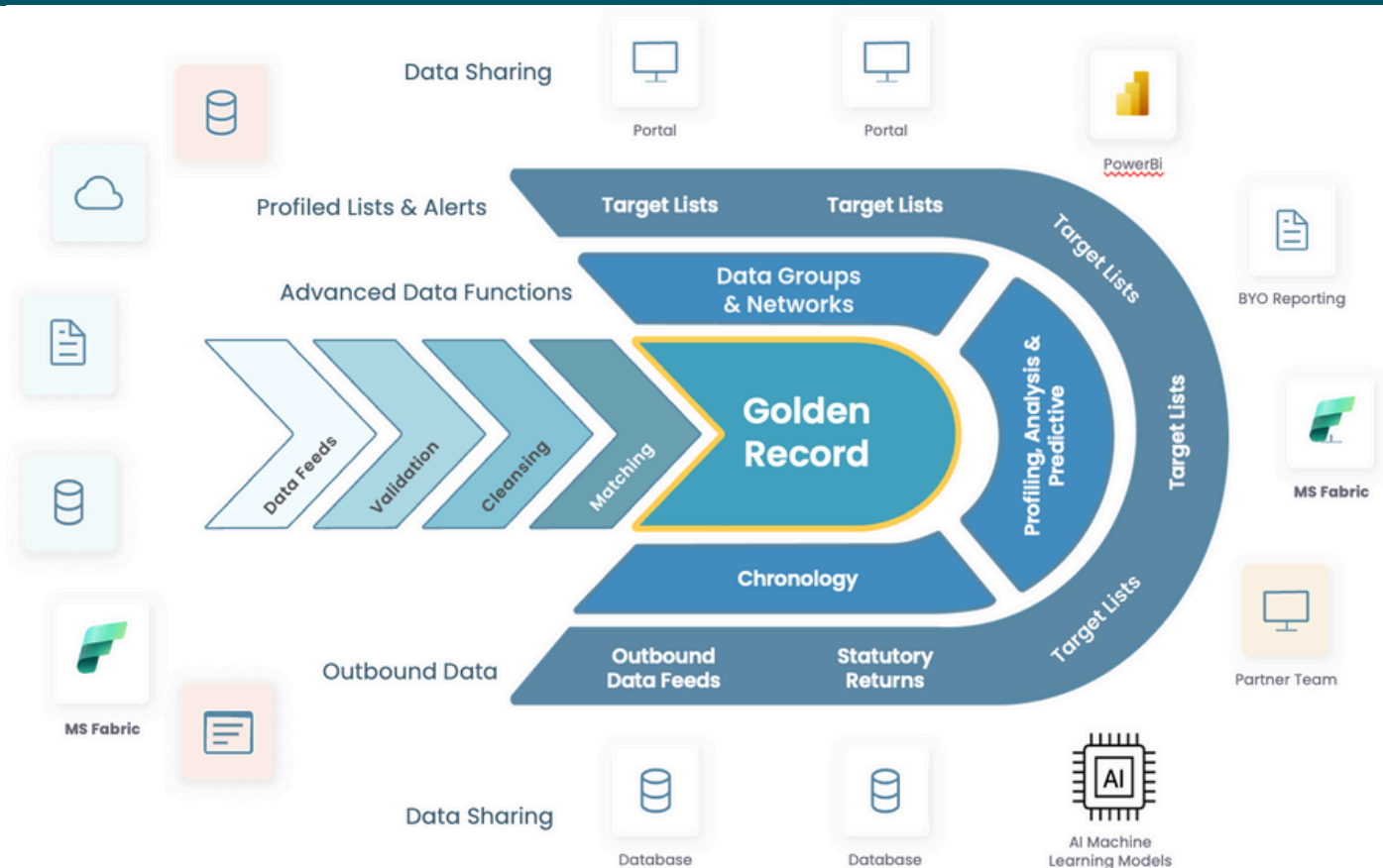**3** How can we fit in with your existing architecture

4 Security

5 Data quality

6 How our platform can accelerate your AI journey

Our Platform At A Glance

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Data Sharing — Portal — Portal — PowerBi

Profiled Lists & Alerts — Target Lists — Target Lists — BYO Reporting

Advanced Data Functions — Data Groups & Networks — Target Lists

Data Feeds — Validation — Cleansing — Matching — **Golden Record** — Profiling, Analysis & Predictive — Target Lists — MS Fabric

Chronology — Target Lists

Outbound Data — Outbound Data Feeds — Statutory Returns — Partner Team

MS Fabric

Data Sharing — Database — Database — AI Machine Learning Models

Key Features:

- A **corporate data platform,** provided via low-code / no-code solution.
- **Modular functionality**, providing end-to-end data management, or specific accelerators to fit around what already exists.
- Data matched into a **Golden Record** for any individual (person, property, or other data types).
- The result is a **cleansed and linked** corporate data repository to support BI, Insights and Innovation.

Advanced Data Functions are available to:

- Create families, groups and networks.
- Use rules-based data profiling to monitor for As-Is scenarios and risks.
- Use Machine Learning (ML) models to look for future vulnerabilities.
- Build chronology to show trends and performance.

An **integrated technology** combining a robust Data Hub with integrated portal layer.

Agile technology to enable **compliant data sharing** and **business accelerators**.

How It Works

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The Sentinel Data Platform is able to ingest any kind of data from any source, including structured and unstructured data. It's a rules-based system which can be applied on a modular basis depending on client requirement. Here's how it works:
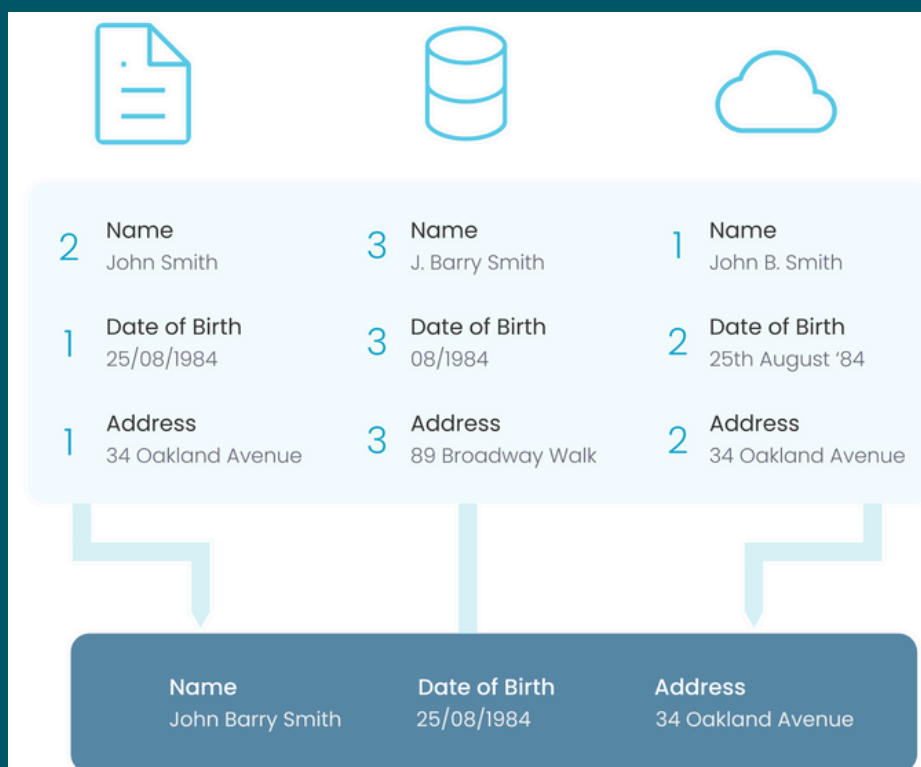
Our data pipeline capability, built in accordance with data protection by design principles can validate the use of each field (to ensure that it is being used appropriately and as expected and to apply the client's Corporate Data Standards), data is then cleansed using one of our many rules. Once we have a comprehensive, cleansed data set, our platform can then match the data. We have hundreds of data matching rules which can match any field to any field, for example:

▷ We account for multiple names (e.g. religious names or gang member names etc).
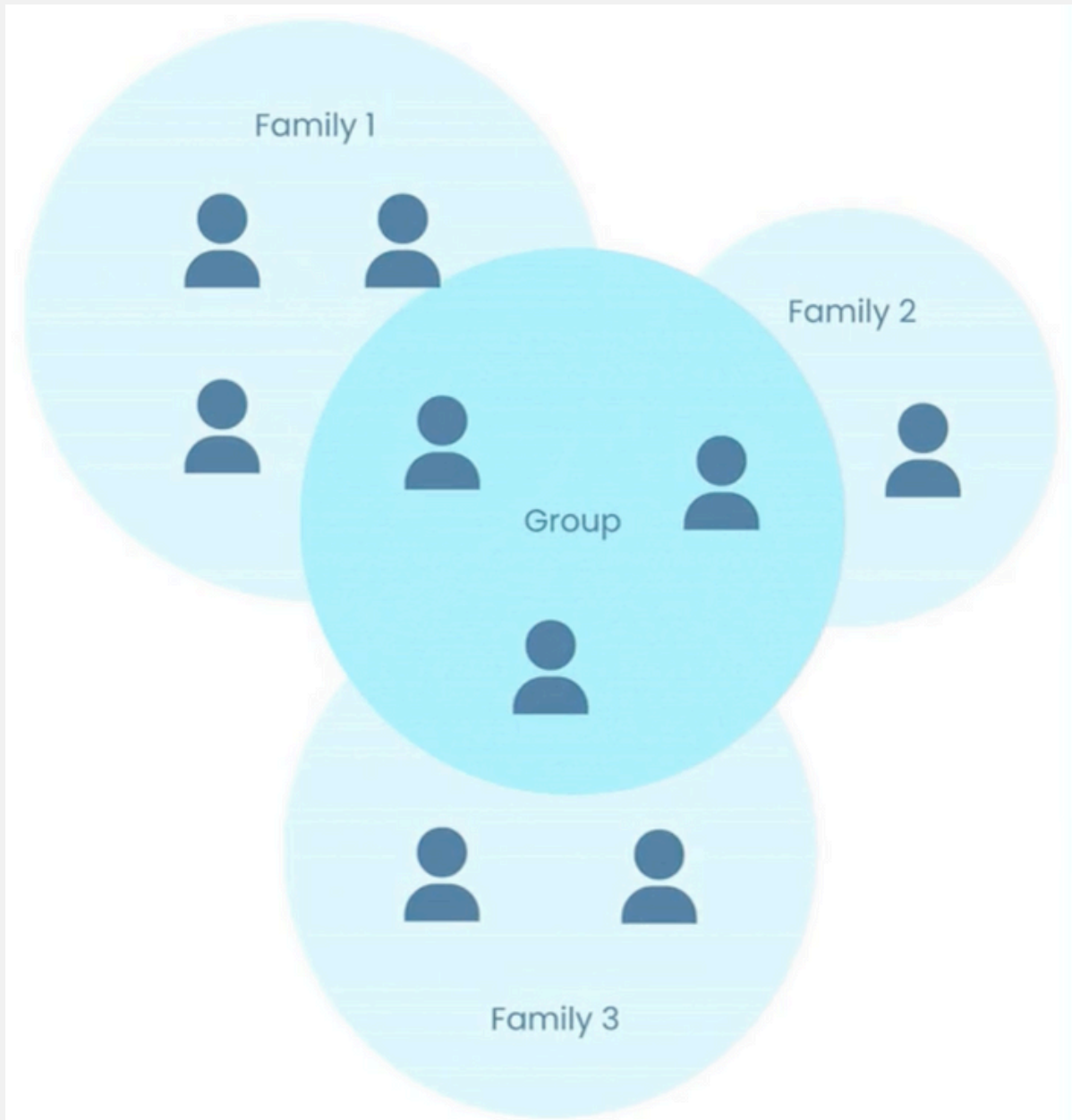
▷ Likely spelling errors (e.g. keyboard mis-strokes).

▷ Conduct phonetic and multilingual matching.

...and the list goes on!

	2 Name	3 Name	1 Name
	John Smith	J. Barry Smith	John B. Smith
	1 Date of Birth	3 Date of Birth	2 Date of Birth
	25/08/1984	08/1984	25th August '84
	1 Address	3 Address	2 Address
	34 Oakland Avenue	89 Broadway Walk	34 Oakland Avenue

Name	Date of Birth	Address
John Barry Smith	25/08/1984	34 Oakland Avenue

We also provide specialist address matching logic to cater for varying address line usage (matching a 3-line address to a 6-line address) and to standardise addresses to national reference datasets such as PAF and address-base. We can automatically match data or quarantine it for checking depending on client needs. All of our matching functionality is based on the ICO principles of Data Protection by design to ensure a high confidence in the matching of personal data, to avoid false matching and data breaches.

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Once the data engineering work has been done, we create a holistic record based on the most trusted information drawn from each source. We call this the 'Golden Record'.

At this stage, we can start to get creative with the data, as this is where all the benefits begin! Our system can arrange data by logical groupings (e.g. people linked to families, transactions made by a particular supplier, information items pertaining to a property). This allows us to understand a person, and product or an asset from multiple different angles and in its own context.

We have the ability to apply scoring rules and where appropriate AI driven profiling to help segment assets, people, transactions etc by e.g. risk, prevalence or cost. This means that organisations can better target their interventions and strategies – understanding where these are most likely to have a positive impact on the organisation and the services it provides. We can also provide a view of transactions or events over time, providing insight into customer activities, buying trends and product performance.

The data can now be used to deliver business insights. Where required, our platform can feed information into Microsoft Fabric where it can be used to improve decision making using the capabilities provided by Fabric (e.g. Microsoft Co-Pilot and PowerBI), or into other reporting tools. Our in-house data scientists can support organisations looking to use AI tools such as machine learning – safe in the knowledge that the data being used is of reliably good quality.

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We can also send high quality data back to source systems to improve data quality as part of an end-to-end Master Data Management solution.

Our platform also provides the ability to share information with other organisations using a series of secure data transfers or on-line portals which can be configured to ensure that suppliers or other agency partners can only see information to which they should have access. If new data collection channels are required, then the same portal capability can include on-line forms to collect data and uploaded documents directly from users.

Our system keeps a full audit trail of when and who has accessed which data to ensure compliance.

Data Encrpytion

Strong Password Requirements

IP Blocking

Mulit-Factor Authentication

GDPR and DPA 2018 Compliant

Role Based Access Control

Audit Log

Least Privilege Access

Platform Benefits

Integrate and transform

Manage and control data migration and integration from legacy systems to new, creating an enhanced repository of high-quality data for AI and analytics.

Compare and combine

Compare data across multiple profiles and systems to generate a unified record, combining the most relevant, recent, and high-quality data to create a single source of truth.

Score and profile

Unlock valuable insights about an asset or customer, making it easier to identify opportunities for improved service or efficiency.

Analyse and report

Configurable dashboards help you increase business agility, shorten response times and optimise processes to make better business decisions.

Improve and extend

Create new online data collection and customer interaction channels with in-built validation for collected data.
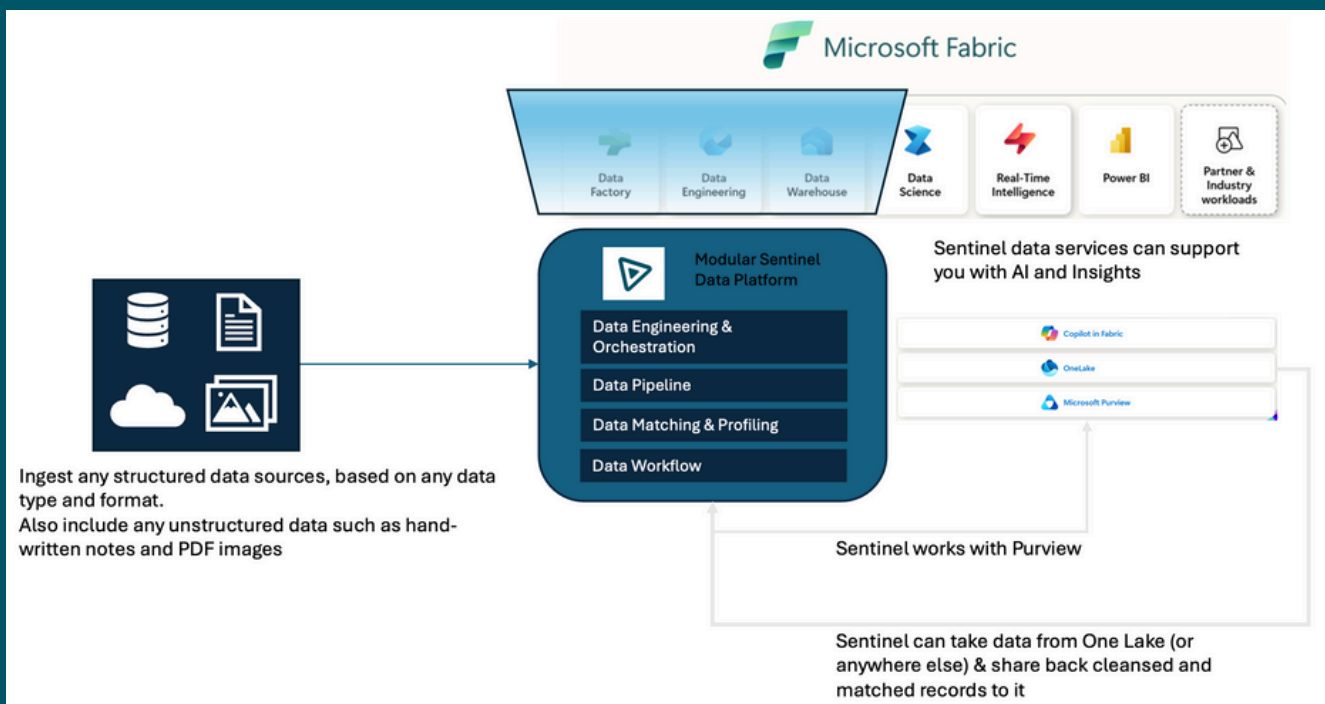
Migrate and consolidate

Collect, read and migrate data from data sources or structures such as SQL or NoSQL databases, Data Lakes or XML files, or unstructured or handwritten data.

Create high-value corporate data assets by transforming senformation into rich unified records (often called 'golden records'), created and stored on the Sentinel Data Platform. Use them to drive more targeted services, enhance reporting, and set the stage for AI innovation.

Azure and Fabric Ready

We are proud to partner with Microsoft and we use the best of Microsoft's Azure toolkit within our platform.

Our platform fits seamlessly into Microsoft Fabric by providing an easy-to-use, user-friendly interface that simplifies the process of data engineering. Our data pipeline capability has been built with data protection legislation front and centre of the design process – so that you can stay compliant. Using Sentinel allows you to get insights from your data more quickly, unlocking the benefits of co-pilot and advantageous end user licensing faster.

As you'd expect, we can pull information from One Lake and also send fully validated, cleansed and matched data back to One Lake ready for data to be put to work – to deliver insights back to business users faster.

We can deploy onto your IT landscape (on prem or in the cloud) or if needed provide a hosted service.

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Secure your most sensitive data

Sentinel has extensive experience helping organisations that support vulnerable children and adults, so we understand the importance of data security and compliance. All our products have strict system access controls, a role-based security model to control what a user can do and see, and includes a full audit trail of user activities and data processing. We use the most robust Azure security features to ensure data is private and protected.

All of Sentinel's solutions have General Data Protection Regulation (GDPR) compliance as a standard feature and abide by the Caldicott Principles for the use and sharing of personal information.

Data quality

Using the Sentinel Data Platform allows you to better understand data quality challenges across different systems and departments – and to monitor how data quality is improving over time.

We can use the 'Golden Record' to send information back to source systems to update them with the best available information, whilst preserving an audit trail of changes so that you can keep up to date with the history too. Our technology provides data leaders with the information they need to work with system users to improve the way information is recorded at source.

Getting you (and your data) ready for AI

Our platform gets your data ready for AI. Most organisations are optimistic about the opportunities AI presents – for delivering efficiencies and improving commercial outcomes – but this cannot be realised without a concerted effort to improve data quality. Our system can identify areas where data quality is an issue, and supply source systems with the best available information held across the organisation.

Want to learn more?

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Interested in learning more about our data platform?
Click here for all the details!