



## EMIS-X Analytics Explorer

A data analytics solution which takes data from patient records to support better health outcomes for the population

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# Introduction and key benefits

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Insights derived from clinical data interrogation are fundamental to the delivery of timely, appropriate and value driven personalised care models. They are essential to building a healthcare system that continually learns from and improves upon the care delivered.

To transform healthcare, data needs a broader and more flexible infrastructure that is accessible to multiple collaborators. That infrastructure needs to be capable of surfacing information quickly and at scale, combining open-source technologies, application program interfaces and cloud storage architecture.

EMIS-X Analytics is a cloud-based analytics suite of tools and includes Explorer. This product enables Data Engineers and Business Intelligence Analysts to query data at scale and speed to help organisations optimise healthcare delivery.

## Key benefits

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- In depth data analysis at speed and scale
- Efficient reporting, intelligence and population health insight
- Access through a trusted, safe and secure cloud environment

# Product description and functionality

The Enlivo advisory team has a track record of supporting practical, data-driven, and technology-led transformation. We work with local teams to upskill them to make best use of our technology, making transformation meaningful, scalable and sustainable.

Enlivo can provide transformation, programme management and change management support as required to wrap around our products, enabling you to leverage insights, achieve maximum benefit and make tangible improvements to the way that care is delivered for your population.

## Key Principles of EMIS-X Analytics:

- **Unified data access patterns:** simplifying data retrieval and analysis.
- **Unified data models and modelling principles:** ensuring consistency and coherence in data analysis.
- **Minimised data processing:** by promoting analytics in place/at source, unnecessary data movement and processing are minimised, enhancing efficiency.
- **Data MESH pattern:** facilitating seamless data linkage while limiting data movement.
- **Anonymisation and opts outs:** ability to apply at source, safeguarding sensitive patient information while enabling researchers to access and analyse anonymised data responsibly.
- **Security & compliance:** strict adherence to IG and GDPR principles are at the heart of the platform.

We are making it easier than ever before to query securely, explore and analyse patient data efficiently. Explorer enables fast and reliable access to complex data sets at source that will help you to optimise healthcare delivery.

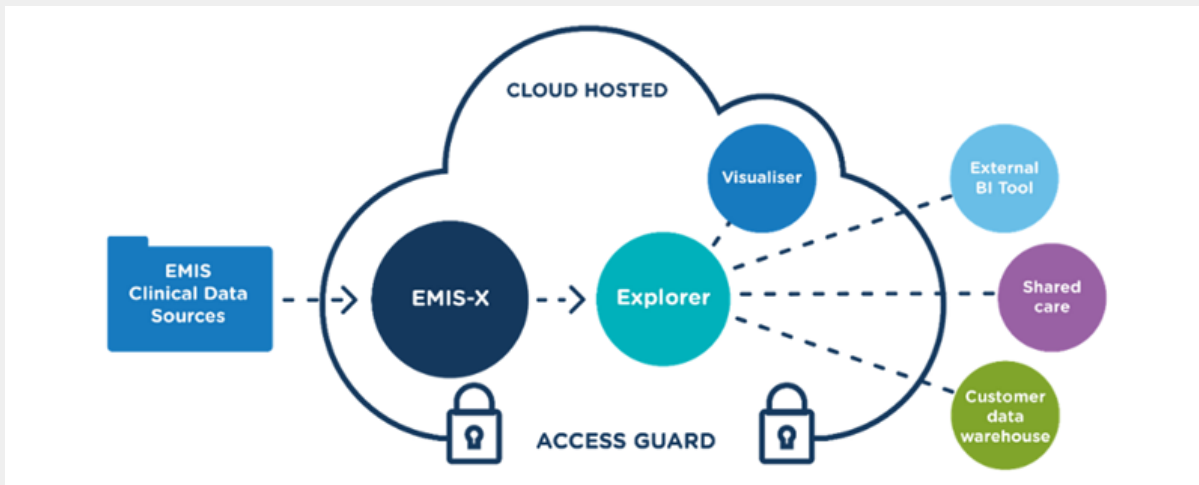
The first product in the EMIS-X Analytics suite, Explorer will deliver self-service business intelligence for healthcare by enabling users to query, analyse and visualise data.

Explorer is a query engine, connecting users directly to data held within EMIS-X.

Access guard is a policy control engine that automatically identifies and verifies the user and applies the relevant user and organisational sharing agreement rights. This ensures that only permitted data is surfaced appropriate to that user.

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Queries can be run manually by authenticated analysts, or programmatically via direct machine > machine connection (Java Database Connectivity / Open Database Connectivity).



Users are able to connect their BI tool of choice to Explorer. For users without existing BI tools, Visualiser is available as a bolt on to allow dashboards or reports built by the customer.

Visualiser is our bolt-on data visualisation tool. Used in combination with Explorer, users can visualise their data by creating personalised dashboards or reports, for onward use by healthcare professionals helping bring the data to life for non-technical users.

Functionalities include:

- Direct access to EMIS Web (Primary Care and Community) data – on-demand and being continuously replicated from Enlivio Clinical Data Sources
- ‘Analytics-friendly’ Integrated Patient Care Views (IPCVs) – pre-joined set of views adhering to the Fast Healthcare Interoperability Resources (FHIR) standard
- Easily obtain only ‘what’s changed’ – the daily delta, or since last queried
- Set up an automated data pipeline to schedule queries and fire at data to suit use case

Leave the data where it is and query at source

- Direct connection between Enlivio’s source data and end-user’s preferred business intelligence tools.
- Ability to upload customer's external datasets into private schemas to enable large-scale analytics.

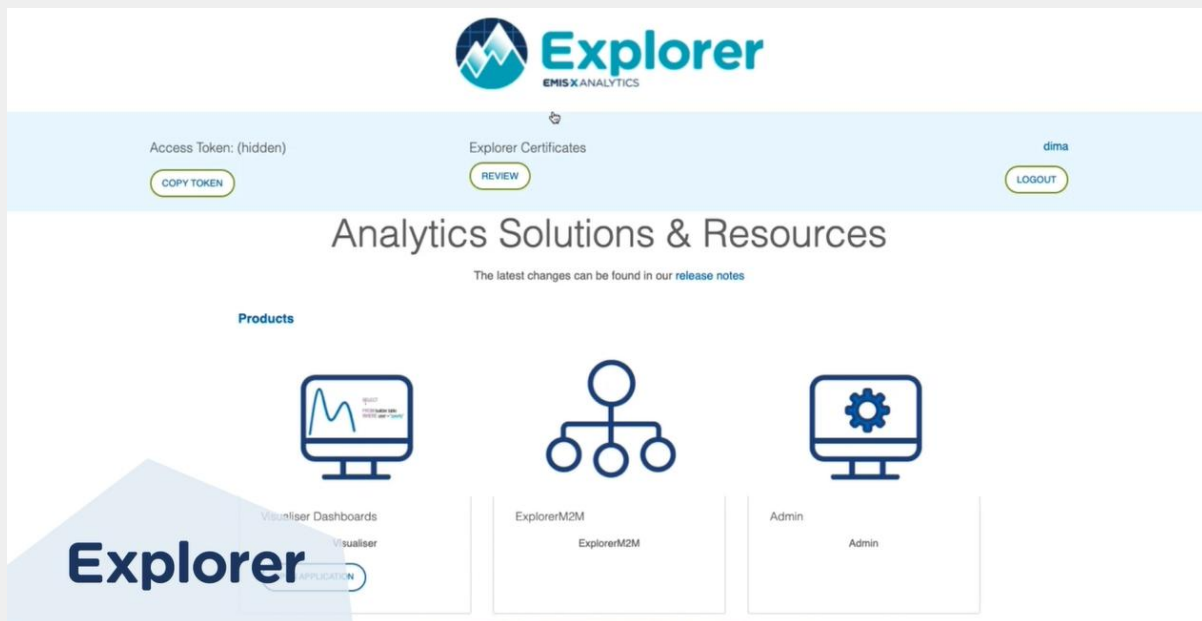
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# Benefits of the Product

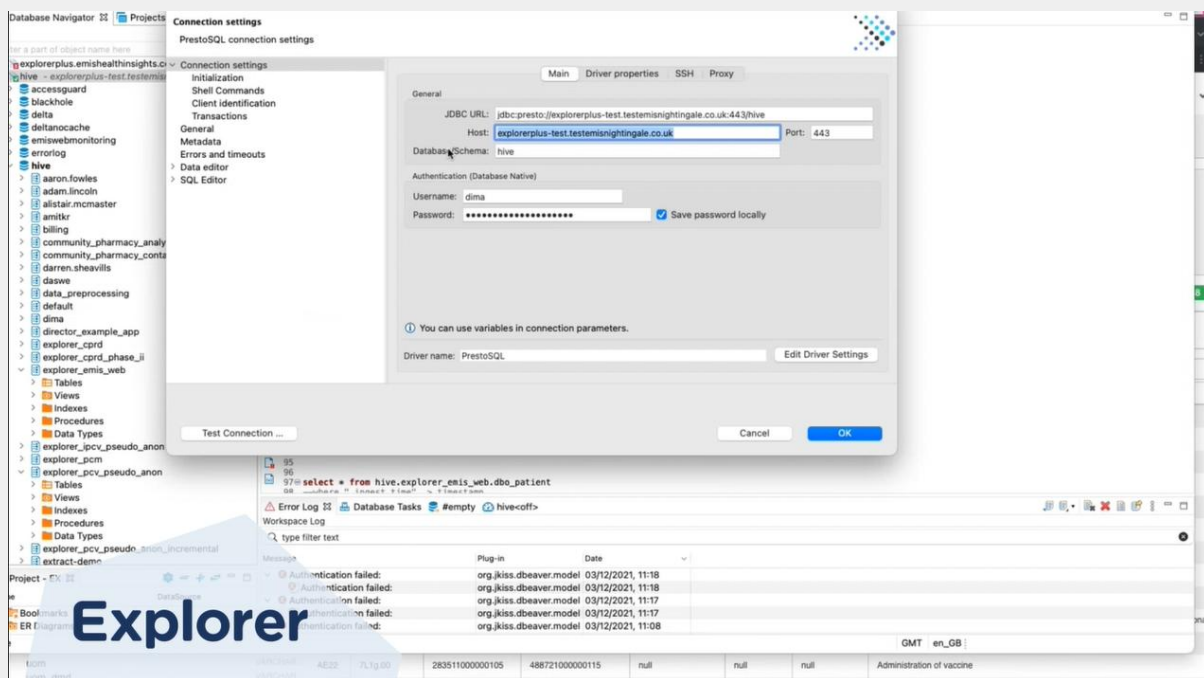
- **Scalable** – Data Lake scales dynamically in size to suit all future requirements (currently storing over 1.5 trillion items of patient data). Will execute any analytical query of reasonable complexity up to a national scale.
- **Fast** – Using the latest stack technology to facilitate fast data access to complex large scale data sets.
- **Secure** – Our Access Guard policy control engine is a trusted, safe and secure cloud source. We grant users access through role-based controls - ensuring each user can only view what a Data Controller permits.
- **Accessible** – Direct access to the full complex data source to facilitate a wider and more detailed range of use cases.
- **Continuous sync** – Flow of data from near-real-time live health systems to provide users access to latest patient records.
- **Interoperability with clinical systems** – Integrate Explorer with EXA Product Suites such as EXA Pathway to identify at-risk patient cohorts for clinical intervention and EXA Recruit for efficient patient identification in clinical research recruitment, enhancing research opportunities and patient outcomes, bridging the gap between healthcare, research, and life science to deliver actionable insights for better patient outcomes.

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# Screenshots of the Product at work



## Explorer – Setting up a machine-to-machine connection



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## Visualiser – SQL Lab

The screenshot shows the EMIS SQL Lab interface. At the top, there's a navigation bar with 'Security', 'Manage', 'Sources', 'Charts', 'Dashboards', and 'SQL Lab'. Below this, the 'Untitled Query' section shows a query editor with a dropdown for 'Database: Nightingale' and 'Schema: explorer\_emis\_web'. The query editor contains a simple SQL query: `SELECT * FROM WHERE`. Below the query editor, there are buttons for 'Run Query', 'Save Query', 'Share Query', and a 'LIMIT 20000' option. To the left of the query editor, there's a list of tables in the 'dbo\_patient' schema, including columns like '\_deleted', '\_ingest\_time', '\_primary\_key', '\_record\_version', 'age', 'agedescription', 'alternatecorrespondenceformat', 'archived', 'birthsurname', 'callingname', 'isconfidential', 'confidentialitypolicyid', 'dataarchived', 'dateofbirth', 'dateofdeath', 'dateofregistration', 'daterecorded', 'datetimerecordupdated', 'deceased', 'displayname', 'externalid', 'externalid2', 'forename', 'guid', 'gestatondaysatbirth', 'givenname', and 'interpretrequired'. Below the query editor, there's a 'Results' tab and a 'Query History' tab. The 'Results' tab shows a preview of the 'dbo\_patient' table with columns: '\_deleted', '\_ingest\_time', '\_primary\_key', '\_record\_version', 'age', 'agedescription', 'alternatecorrespondenceformat', 'archived', 'birthsurname', 'callingname', 'isconfidential', and 'confident'. The table contains 10 rows of data.

**Visualiser**

**Flexible – query data directly**

## Visualiser – Dashboards



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# Case study

An ICS is using advanced data analytics to ‘wrap its arms’ around over-stretched GP practices by identifying patient behaviours that are driving increased demand.

Among the trends identified by Frimley Health and Care Integrated Care System (ICS), which is responsible for 800,000 patients in the South of England, are:

- A 17 per cent annual rise in demand for primary care services, with demand increasing across all patient groups, not just the elderly or those with acute conditions.
- A specific trend among 18-35-year-olds classed as ‘generally well’ to bypass primary care and instead present directly to Accident & Emergency services.

The insights have been delivered by EMIS-X Analytics – an advanced data analytics platform from leading primary care software provider Enlivio – using data drawn from the local shared care record and population health tools.

Chief information officer at Frimley ICS, Mark Sellman, said:

*“The population demand we’ve identified is not isolated to deprived areas, from patients who have acute health concerns or those who are elderly, it’s an increase across the board.*

*“When you combine this with a reducing workforce and teams that have worked flat out during the pandemic, it’s perhaps not surprising that our GP practices are struggling.*

*“We want to wrap our arms around GP practices and use data to help. We want to do things differently to make it better for our practices and our patients.”*

Mark Sellman, chief information officer at Frimley ICS added:

*“We have too large a number of patients for the number of primary care appointments we have available, which is leading to a doubling of other patients going to A&E. The data we’ve been able to analyse through EMIS-X Analytics has given us insight that each PCN can directly respond to.*

*“Next, we’re going to analyse what is causing the ‘generally well’, who should initially be treated within a primary care setting, to arrive in urgent care and what interventions we can put into place.”*

Alex Barnett, head of analytics for Frimley ICS, said:

*“EMIS-X Analytics is opening a world of possibilities for our population health management programme – we are using this data to quantify in a meaningful way how*

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*demand from different segments of the population has changed over the course of the pandemic.”*

Alex Barnett, head of analytics for Frimley ICS

*“Most importantly, the insights we are generating resonate with the experiences of our clinicians on the ground and are inspiring a wealth of innovation.*

*“Alongside the wider EMIS ecosystem this also means that we can take important strategic insights into the population and deploy them back to our front-line clinicians as part of the patient record.”*

Alex Barnett, head of analytics for Frimley ICS

*“For example, we have been able to work with EMIS to deploy population health segmentation models into front line records, which has helped to improve access for all patients and reduce barriers for patients with the most complex needs.”*

Frimley ICS is one of the first NHS organisations to use EMIS-X Analytics, a cloud-based analytics suite of tools.

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# Product FAQs

A full set of FAQs are available on the EnlivioGo Product Page - (requires an account to be set-up).

[Home](#) > [Knowledge](#) > [EMIS-X Analytics \(Knowledge Base\)](#) > [EMIS-X Analytics Explorer](#)

Search

## FAQs on logging in

- How do I set up MFA?
- How do I connect to Explorer?
- How do I connect to Explorer from a Microsoft environment or software?
- I can't login to Explorer but it was working before.
- What is my username?
- Is my login the same for Visualiser and Explorer?
- How often does my token code change?
- Is my login for production and test the same?
- I don't understand some of the naming conventions.
- I can't login as it says "User not confirmed" when I try.
- Can I connect via Python?

## FAQs on writing queries

- How do I write a query for a view?
- How do I write a query for a table?
- How can I see a list of all the tables I have available in the schemas?
- Why am I getting time out issues?
- Can I export my data to CSV?

## FAQs on the data

 Data quality - we are reliant on what data has been input and we cannot change this.

- How does the extract/EMIS Web data/EXA tables change when a patient has been deleted?
- Can we be sent a list of pseudo IDs for all deleted patients?
- How would we know a practice has left the services or dissented?
- What happens to deregistered patients?
- What happens when two practices merge?
- What happens when a patient dies?
- How are we informed of a removal of something from a patient's record?
- Does ingest time flag the records we need to update and add?
- How do we deal with relational data arriving in the wrong sequence?
- Does a patient's ID change when it moves practice?
- Why does a patient have multiple registration dates?
- Do I need an ODBC /JDBC driver?

## FAQs on the service

### Monitoring

- Can I run a check to see if the service is running?

## FAQs on patient status

- We need to know if a patient has left a practice?

## FAQs on Appointments

- I need to identify which table.column has the data for Usual GP (Extended Services)'s National Practice Code & Appointment Date/Reason?

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