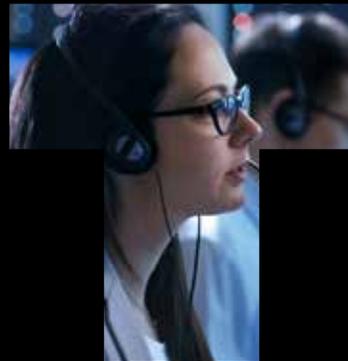


Access For All

Giving UK police forces access to IBM i2 analytical software, for tracking criminal activity



Modern technology has transformed the law enforcement landscape, allowing criminals to organise themselves in unprecedented ways—creating an environment of asymmetric threats designed to disrupt and place overwhelming pressures across physical and cyber domains.

Tasked with helping the law enforcement community reduce costs and improve use of technology, the Police ICT Company set out to create a common IT framework with shared standards. The goals were to unify data analytics systems across stations, facilitate streamlined communications and give officers better tools to do their jobs.





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In 2015, IBM and the Police ICT Company accomplished a major unification of UK police systems when it consolidated 122 separate IBM i2 software contracts into one master agreement, called IBM Access for All. UK police forces have been using IBM i2 software in various capacities since 1992.

Now, all 43 polices forces across England and Wales, plus Police Scotland, PSNI and other government entities such as the MOD, SFO, and NCA, have access to a wide range of IBM i2 software as well as the ability to integrate IBM Cognos and IBM SPSS software.



Make smart,
informed decisions



Increase
efficiency



Improve
situational
awareness

These data analytics tools allow police officers and police staff to target major crimes and organised crime networks more effectively by providing visibility into crucial evidence such as telephone records and bank account activity. Using i2 software, police forces can collate, analyse and visualise large sets of data for a single view of custody records, intelligence and criminal activity across multiple systems.

This visibility can illuminate complex criminal networks and relationships, helping law enforcement agencies solve cases faster and spot emerging threats earlier. The solution can also make it easier for officers to make decisions, providing performance indicators for operational oversight and situational awareness.

Software available under Access for All:

Enterprise insight analysis

IBM i2 Enterprise Insight Analysis helps police forces turn overwhelming and disparate data into actionable insight and intelligence in near real-time, providing an enhanced reporting capability:

- Provides advanced analytics and visual analysis capabilities to help expedite data processing and manual tasks so you can spend more time on analysis.
- Integrates with third-party software, and features open-source data connectors to leverage existing data and systems, collect new data and securely share your intelligence.
- Designed to be scalable and interoperable, the software can be extended with add-on capabilities. Benefit from a cost-effective solution that reduces training, maintenance and deployment costs.



IBM SPSS Modeler

IBM SPSS Modeler software enables predictive analytics to help uncover patterns and improve decision making:

- See patterns and trends, connect data to effective action and apply insights throughout your operations
- Understand cause and effect of crime variables and actions taken
- Identify predictors of threat and fraud

Analyst's notebook

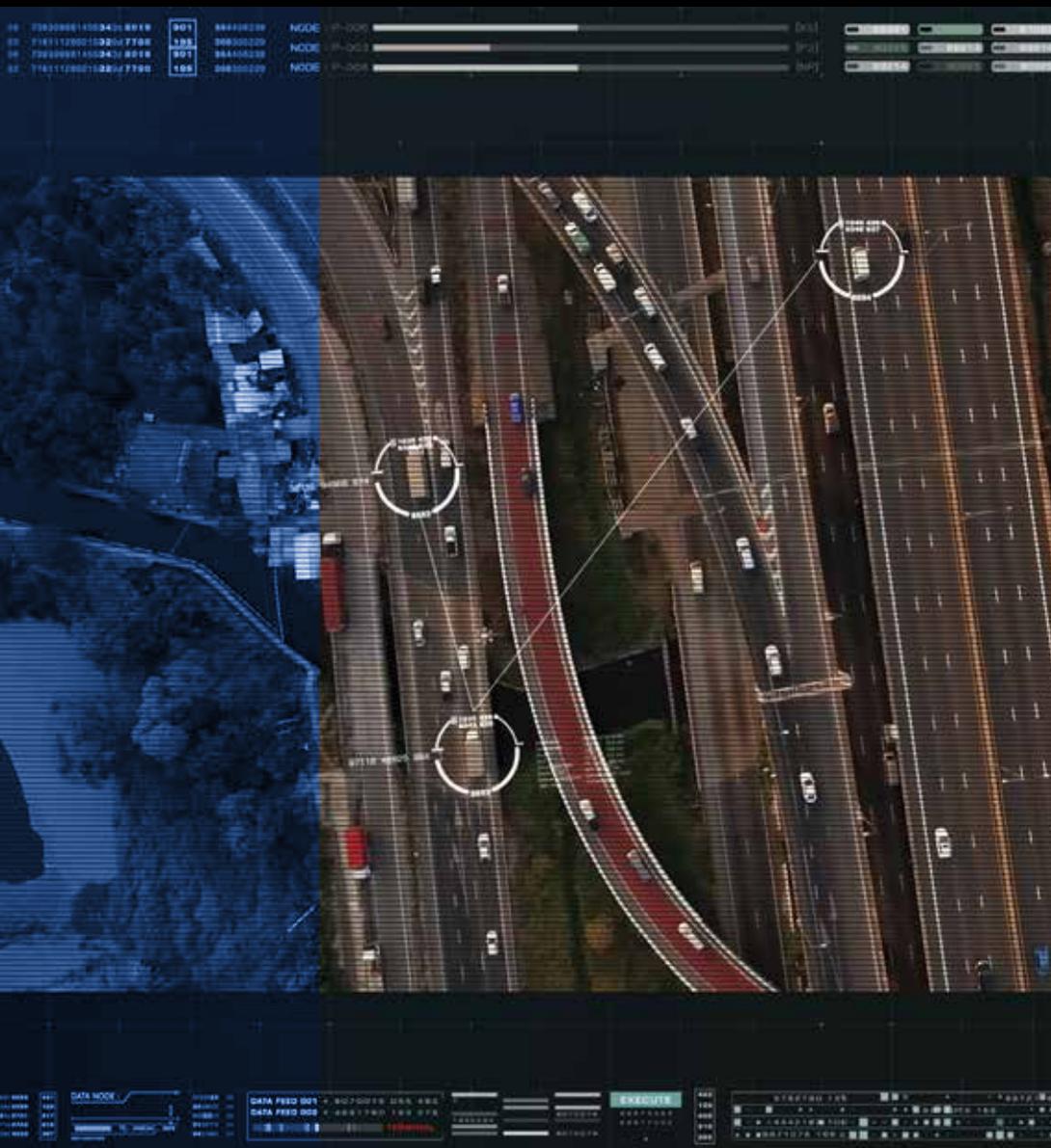
IBM i2 Analyst's Notebook software uses connected network visualisations, social network analysis, and geospatial or temporal views to help uncover hidden connections in the data:

- Perform analysis of a wide range of data types with a flexible data modelling and visualisation environment.
- Gain insight into and deeper understanding of data using multiple analysis views including association, temporal, spatial and statistical views.
- Use integrated social network analysis capabilities to increase understanding of the structure, hierarchy and method of operation of criminal, terrorist and fraudulent networks.

iBase

IBM i2 iBase software enables collaborative teams to capture, control and analyse intelligence data from multiple sources:

- Gather, structure and process disparate data into a single repository for improved management.
- Security-rich data access, built-in collaboration tools and user notifications increase team efficiency and awareness.
- Rapid out of the box deployment, a flexible data model and intuitive user design help teams experience the benefits of i2 iBase quickly.



iBase plate analysis

IBM i2 iBase Plate Analysis software integrates with existing automatic number plate recognition (ANPR) systems to monitor criminal activity, including lifestyles, movement patterns and profiles.

- Geographical profiling enables you to find vehicles, captured by an ANPR system, that were detected in the vicinity of an event.
- Convoy Analysis allows you to search for vehicle co-occurrences.
- The Find Common Vehicles function allows you quickly to discover which VRMs are common to specified sets, allowing you to establish connections.

Other tools include:

- i2 Analyst's Notebook Premium
- i2 Analyst's Notebook Connector for Esri
- i2 Analyze
- i2 Enterprise Insight Analysis Collaborate
- i2 iBase GIS Interfaces
- i2 iXa Search AN
- i2 TextChart
- IBM SPSS Amos
- IBM SPSS Advanced Statistics
- IBM SPSS Statistics Base
- IBM SPSS Categories
- IBM SPSS Custom Tables
- IBM SPSS Decision Trees
- IBM SPSS Exact Tests
- IBM SPSS Forecasting
- IBM SPSS Regression
- IBM Cognos (IBM Performance Management Suite) TM1

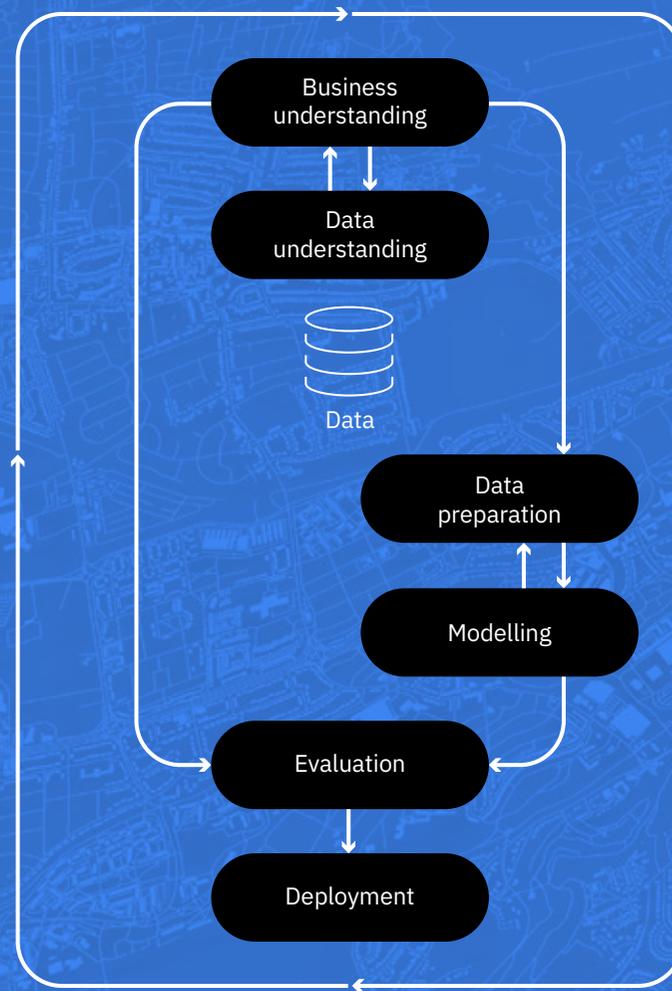
Case Study

IBM and Avon & Somerset Police Crime Prediction and Prevention

SPSS Modeler has enabled the constabulary to build and deploy risk-based predictive models within key business areas by mining large volumes of data in ways not previously possible.

Used operationally to help tackle burglary:

- Identify high-risk unmanaged offenders
- Automatically generate potential suspects list
- High-risk burglary areas are identified with a given confidence and accuracy
- Models are run daily based on millions of data records. The outputs are made available at the start of the day to inform intelligence briefings, investigations and directed patrols.



“The value of the burglary model outputs is significant as they provide automated and timely insight to help understand current burglary issues. The products extend our capability to make sense of the vast quantities of data beyond what traditional intelligence analysis could achieve on its own.”

– **Sean Price,**
Head of Performance at Avon
and Somerset Police.

Elearning modules hosted by the police college (NCALT)

Introductory modules

Social network analysis

Filters & histograms and heat matrix

Activity views

Import function

Mapping through iBase GIS

Alerting

360 searching in iBase

Data miner

Conditional formatting

ANPR plug in

Data-on-demand feeds direct into ANB

Find path

iBase query

iBase charting schemes

Advanced modules

Social network analysis advanced

Building a chart to make the most of analytical features

Import function advanced

iBase query advanced

Version 9 ANB

New modules

Timeline importing

Using association style charts for chronological analysis

Find connecting networks

Getting data out of a chart

Find matching entities

Follow the flow

IBM is a globally integrated enterprise operating in over 170 countries, bringing innovative solutions to a diverse client base to help solve some of their toughest business challenges.

In addition to being the world's largest IT and consulting services company, IBM is a global business and technology leader, investing £4bn a year on research and development to shape the future of society at large.

IBM's prized research, development and technical talent around the world partner with governments, corporations, thinkers and doers on groundbreaking real-world problems to help make the world work better and build a smarter planet.



The pressure on governments to make better choices, deliver results and demonstrate accountability is intensifying. IBM can provide new insights to help government organisations make better decisions, optimise ways of working, measure progress, impact and performance and capitalise on new opportunities.

Access for All can be used to develop intelligence to build lines of enquiry helping to drive investigations and target criminal activity that is causing harm to the most vulnerable people in society.

This software can be used to help tackle county lines, gang crime, child exploitation and slavery; at local, regional and national levels.

IBM is also responsible for delivering the core of the National Law Enforcement Data Programme, integrating the existing PNC & PND into a single modern, joined-up solution.

IBM is currently looking at ways of integrating the Access for All agreement into NLEDP to provide even better capability in the future.

IBM is committed to the success of the utilisation of the products within the agreement; as such, a number of elearning modules were developed by its subject matter experts and hosted through the College of Policing. These elearning modules have been incorporated into some forces' Career Development Framework.

This software is freely available for you to download from the Police ICT Company, and IBM can work with you to alleviate the challenges and pressures faced by local IT departments and legacy infrastructure.

To learn more about how IBM can support you, please get in touch with your IBM representative or the Police ICT Company.



New Product Included in Access for All

IBM i2 Enterprise Insight Analysis Investigate Add On

Fast and easy online access to carry out quick target investigations

Overview

With the IBM i2 Enterprise Insight Analysis (EIA) Investigate Add On, you can do more with your existing IBM i2 EIA data and insights by giving more users fast and easy online access to the power of i2 for conducting quick target investigations. And users get up and running quickly with little to no training required, accelerating time to value and return on investment.

The Investigate Add On puts the power of i2 in the hands of a whole new group of users who can gain access to mission-critical data and insight for further exploration and investigation. More users leveraging i2 means greater collaboration and information sharing across your organisation and across silos. This helps investigators and analysts catch more bad guys faster.

To understand how your force can make the most of EIA Investigate, please contact The Police ICT Company or your IBM representative.



About IBM i2

Trusted for the most critical missions. What's yours?

IBM i2 is committed to helping ensure a safer planet by arming analysts, investigators and other users around the world with advanced analytics and intelligence analysis capabilities to detect, disrupt and defeat advanced physical and cyber threats.



Ingest, Fuse,
Analyse



Supports
interoperability



Modular,
cost effective

Benefits

The Investigate Add On empowers analysts and investigators to:

Get fast and easy online access to mission-critical data and insight

- Give users across the organization, and across silos, access to the mission-critical data and insight they need to catch the bad guys.

Carry out quick target investigations

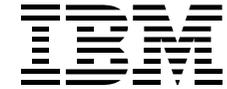
- Fast and easy access helps analysts and investigators gain rapid insights and take action at mission-critical speed.

Unlock the power of i2 for more users

- Our new web client makes it easy to extend access to more users across your organisation and across silos for greater collaboration.

Little to no training required accelerates time to value and return on investment

- Users are up and running quickly, which means you can achieve rapid time to value and accelerated return on investment.



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