

iBase Plate Analysis

ANALYSING AUTOMATIC NUMBER
PLATE RECOGNITION DATA



Accelerating Your Mission.

iBase Plate Analysis, part of the i2 Intelligence-Led Operations Platform, maximises your investment in automated number plate recognition (ANPR) systems by analysing collected data and comparing with data from multiple available sources in a secure environment to quickly identify critical intelligence.

At the heart of *iBase Plate Analysis* is a dedicated analytic environment that manages every aspect of ANPR analysis. As an add-on component to i2's award winning products *iBase* and *Analyst's Workstation*, *iBase Plate Analysis* has been specifically developed for organisations seeking to maximise the benefit of ANPR data and their investment in camera technology. As an *iBase* module, *iBase Plate Analysis* integrates effortlessly into an environment existing customers will be familiar with and new customers will quickly master. Deployment will provide seamless integration with existing infrastructure and security. Other elements of the solution provide data extraction, transformation and loading (ETL) from ANPR source systems into *iBase* or *Analyst's Workstation*.

ANPR data is a rich source of information that adds considerable value to post-incident and proactive investigations. It's full potential can only be unlocked when it is analysed in the context of other data obtained from crime, intelligence and incident databases. The layering of these data sources can help to create a vivid picture of criminal lifestyles and patterns of movement, assist with the profiling of problems, and contribute to the efficient and effective deployment of valuable law enforcement resources.

The easiest way to integrate information-rich ANPR data with intelligence and investigative analysis environments

- Deploy the system quickly on top of major ANPR back office systems for instant ROI
- Eliminate multiple manual time-consuming and error-prone processes typically used to import ANPR data into analytical systems



Harness the power of your number plate data with i2's dedicated analytic environment

The screenshot displays the 'Plate Analysis Task Manager' interface. It features a network graph on the left showing connections between various data sources and entities. A detailed profile for a 'VOLKSWAGEN GOLF 5 SDI AB12CDE' is highlighted, showing its location at '603234 265887' and source as 'Plate Read'. The interface also includes a 'Geographical Profiling' window with a table of search results.

From	Offset	To	Offset	North	South	East	West
14/09/2008 14:00:00	0m	14/09/2008 14:00:00	45m	5000	5000	5000	5000
21/09/2008 14:00:00	0m	21/09/2008 14:00:00	45m	5000	5000	5000	5000
14/09/2008 14:00:00	0m	14/09/2008 14:00:00	45m	5000	5000	5000	5000

Uncover hidden links and discover new associations from cross-referencing number plate information with intelligence data

Maximises number plate recognition and intelligence system investments

- Plate recognition data can hold the key to investigative analysis when combined with other known intelligence obtained from crime, intelligence and incident databases that are stored in *iBase* or in *Analyst's Notebook*
- Increases the value of both existing number plate recognition systems and intelligence systems
- Aids in the efficient and effective deployment of valuable law enforcement resources

Delivers powerful and unique new analysis capabilities for:

- **Convoy Analysis**
Compare a target list of vehicles to ANPR records to discover instances of vehicles travelling together. Convoy analysis will help analysts identify suspicious vehicles, spot where cash-in-transit vehicles are being followed, and highlight the possibility of compromised undercover operations.
- **Geographical Profiling**
Compare ANPR reads around specified days and times at any number of incident sites to identify suspicious vehicles.
- **Find Common Vehicles**
Analyse sets of ANPR reads to find vehicles common to more than one data set.
- **Merge Vehicle Data Sets**
Select any number of data sets to analyse at a single click of a button.
- **Retrieve Image**
Call up an image from the source ANPR system, displaying it in read-only mode for the analyst to view.
- **Make, Model and Colour Cross-Referencing**
Cross-reference ANPR data with existing information about vehicle makes, models and colours.

The screenshot shows the 'Plate Analysis Task Manager' window with a 'Convoy Analysis' table. The table displays co-occurrences for a target license plate '321 NML' between 05:00:00 and 06:02:00 on 06/02/2009. The table has columns for 'Licence Plate', '321 NML', '654 XWV', and '109 FED'. The rows show various camera sightings with time offsets relative to the target vehicle.

Licence Plate	321 NML	654 XWV	109 FED
12/10/2009 10:00:16	Camera 1 10:00:16	Camera 1 -8 Seconds	
12/10/2009 10:30:16	Camera 9 10:30:16	Camera 9 -4 Seconds	
12/10/2009 10:45:16	Camera 8 10:45:16	Camera 8 -9 Seconds	
12/10/2009 11:00:16	Camera 10 11:00:16	Camera 10 +10 Seconds	Camera 10 -4 Seconds
12/10/2009 11:15:16	Camera 5 11:15:16		Camera 5 +8 Seconds
12/10/2009 11:30:16	Camera 6 11:30:16	Camera 6 -7 Seconds	Camera 6 +8 Seconds
12/10/2009 11:45:16	Camera 7 11:45:16		Camera 7 +8 Seconds
12/10/2009 12:00:16	Camera 2 12:00:16	Camera 2 -2 Seconds	Camera 2 +10 Seconds
12/10/2009 12:10:16	Camera 3 12:10:16	Camera 3 +8 Seconds	Camera 3 +2 Seconds
12/10/2009 12:25:16	Camera 4 12:25:16	Camera 4 -3 Seconds	

Use Convoy Analysis to reveal vehicles travelling with target vehicles

iBase Plate Analysis Key Capabilities and Benefits

- Quickly and easily deploy the solution to major back office systems for fast ROI through off-the shelf connectors
- Increase the value of both existing camera infrastructure and intelligence systems
- Combine ANPR data with other intelligence sources to realise the full potential of your ANPR data and reveal hidden patterns and links
- Enrich and strengthen ongoing investigations by discovering the power provided by combining ANPR data with data from others sources
- Leverage data already being collected by number plate recognition systems with no additional data collection costs
- Enable sophisticated analytical capabilities including convoy analysis, geographical profiling, and the ability to indentify common vehicles from multiple data sets and camera locations
- Merge multiple independent sets of data at the click of a button to instantly identify common vehicles from numerous camera sites

For more information see:
www.tovek.com



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www.i2group.com

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