

Product Brief: ANPRrecision Infrastructure Health Check Tool

About IPL

IPL is a software & IT services company specialising in the delivery of intelligent business solutions. We help our clients to exploit corporate information assets to yield tangible business benefits.

IPL's consulting is renowned for its quality and value. We consistently exceed our clients' expectations through a combination of imaginative thinking, managerial and technical expertise and many years of systems engineering experience.

IPL's track record in end-to-end software solutions development is exceptional. Our proven development methodology allows us to cut through technical complexity, manage risk and completely focus on delivery. We always deliver reliable, efficient and accurate systems to a precise schedule.

IPL is certificated against three international standards:

- ISO 27001:2005 (Information Security)
- ISO 9001:2008/TickIT (Quality)
- ISO 14001:2004 (Environmental)

The company has a permanent workforce of 260, revenues of ca. £29M p.a. and 40,000 sq ft of secure office space in central Bath.



Monitoring your ANPR infrastructure

Background

ANPRrecision has been developed to enable police forces to effectively manage their camera network and ensure that these valuable assets are used efficiently. The Home Office has identified that the use of ANPR on the strategic road network is one of a number of methods for forces to collaborate at the regional level.

As mandated by Chief Constables' Council, the National ACPO ANPR Standards (NAAS) form the basis for a consistent approach to ANPR operation, across the UK police forces. Together with technical data standards, NAAS also specifies ANPR system performance requirements. Furthermore, all forces are required to self-certificate NAAS compliance.

The Home Office and the National Policing Improvements Agency (NPIA) are piloting an ANPR collaboration project in the East Midlands. This project aims to deliver added benefits to intelligence analysis, post-incident investigation and real-time vehicle intercept operations by integrating ANPR reads, intelligence information and crime data in the five forces.

ANPRrecision has been delivered to all of the East Midlands police forces, providing valuable operational information about their ANPR networks. Up-to-date reports allow forces to quickly address the following issues:

- Faulty ANPR equipment.
- Ineffective ANPR equipment utilisation.
- NAAS non-conformance.

IPL's product

ANPRrecision gathers camera reading information and analyzes it to derive ANPR performance statistics for individual cameras and the data network.

Trend analysis and threshold comparisons can be performed on the derived information to identify NAAS compliance issues, ANPR equipment faults and imminent maintenance needs.

ANPRrecision provides officers with access to a suite of reporting tabular and graphical reports. It is also possible for significant issues to be reported directly (e.g. by email) to the appropriate ANPR administrator.

ANPR camera monitoring

By analysing the readings taken by individual cameras, ANPRrecision provides administrative officers with useful status information in a manner that can significantly reduce the need to visit equipment in remote, hazardous or sensitive locations.

ANPRrecision's fault monitoring facility detects issues with the camera, the infrared illumination and GPS receiver. Component failures and routine maintenance needs are identified. Equipment configuration problems can be also resolved before they impact other systems.

Performance monitoring, by ANPRrecision, of operational equipment simplifies the network optimisation tasks. By comparing reading rates and hit percentages it is easy to identify underutilised cameras.

NAAS compliance

NAAS requires that, following capture, ANPR readings be inserted into the force's database within a specific period of time.

To perform the necessary analysis manually, across a force's ANPR network, would be a long-winded process. Even backed by suitable database reports and other tools, it remains a resource hungry activity.

ANPRrecision continuously monitors reading insert times, checks them against thresholds and reports averages and trends. ANPR system administrators are informed of exceptions, which can then be further investigated by referring to detailed reports.

Flexibility and usability

ANPRrecision is based on a powerful query engine provided by a proven off-the-shelf platform, with user authentication and authorization facilities.

A tiered system architecture supports a suite of standard ANPR reports and the option to configure reports to meet specific needs.

Reports may be viewed via a web-based 'folder' view. They can also be delivered as files or emails of various formats (e.g. Excel spreadsheet and charts, CSV and XML text files and PDF documents).

IPL's experience

ANPRrecision provides an excellent example of IPL's ability to rapidly understand the problems that its clients have to face, and to translate them into practical and beneficial solutions.

We can draw on experience gained across a broad customer base. Our highly qualified consultants have the blend of domain knowledge and technological experience to enable IPL to successfully deliver products, such as ANPRrecision, in a reliable and repeatable form.



SQL Server Reporting Services
Home > ANPR HC > Reports > Camera_Exception

Home | My Subscription

Search for:

View Properties History Subscriptions

New Subscription

Exception Date: 10/08/2009 CameraType: All

100% Find | Next Select a format Export

ANPR Camera Network Health Check System

Camera Exception Report

NPR	Camera Name	Type	Camera Groups	Reads / day	%NO GPS	%GPS fail	Insert Time	Daytime reads	Night reads	Confidence	Plate size (K)	Over-view size (K)	%No Plate	% No Over-view	Num Hits	Hit %
3	camera_108022	Static	All Cameras,CCTV Cameras,NC CCTV,NK CCTV	111	100 %	0 %	19.02	111	0	94	1.11	5.47	0 %	-8 %	2	0 %
1	camera_151286313	Static	All Cameras,CCTV Cameras,NN CCTV,Op Uncanny	374	100 %	0 %	18.10	334	40	81	0.97	9.65	0 %	-15 %	5	0 %
2	camera_1583123	Static	All Cameras,CCTV Cameras,NK CCTV	2265	100 %	0 %	19.70	2014	251	92	0.98	4.21	0 %	-4 %	48	3 %
2	camera_1583214	Static	All Cameras,CCTV Cameras,NK CCTV	1207	100 %	0 %	18.84	1207	0	96	0.86	7.40	0 %	-8 %	17	1 %
1	camera_187879	Static	All Cameras,CCTV	614	0 %	100 %	18.69	614	0	93	1.09	13.22	0 %	-7 %	17	1 %

Contact Information

IPL Information Processing Limited
Eveleigh House
Grove Street
Bath
BA1 5LR

Tel: +44 (0) 1225 475000
Email: emergencyservices@ipl.com

IPL - Emergency Services
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