



**VSST
TASSA**

Future Policing

Systems Database

- Public Safety
- Tactical Options
 - Tracking
 - System Type
 - System Options
 - Surveillance
 - Pursuit
 - Health & Safety
 - Liability





- Underpinning police policies,
- Tactics and Training.
- Health and Safety





SUPPLIERS & SERVICES



"Our Mission is Finding the Right Solution for the Right Problem"



The Problem

Making thieves Work harder to steal vehicles



Used by :

- Police Sweden
- Insurers Sweden

Under trials with

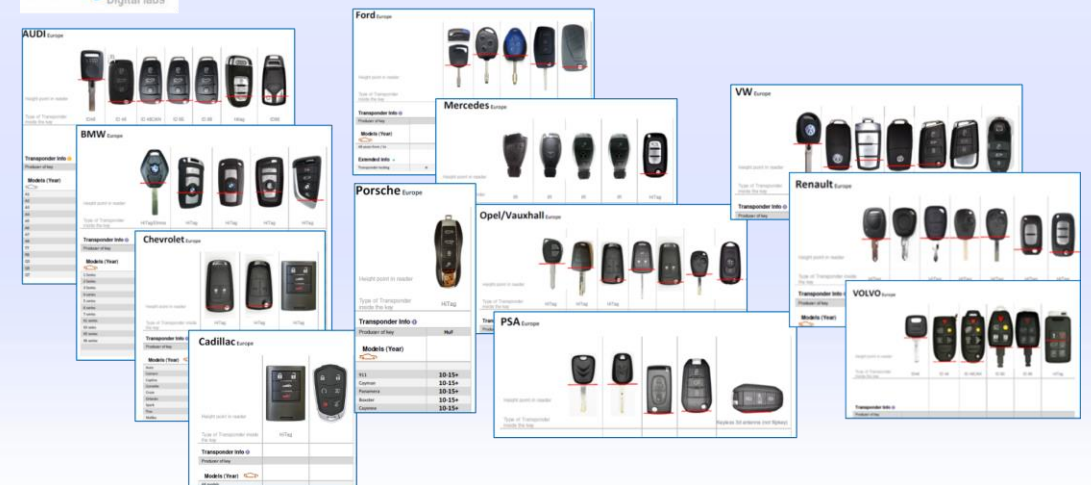
- Police Scotland
- Police England and Wales (DSTL & MET)

Insurer claims tool

- Under new trials by some UK Motor Insurance companies



Betfjord
Digital labs



Chronos Technology receives Royal Institute of Navigation Award



THE INCREASING USE OF GPS JAMMERS BY CRIMINALS FOR CHOP SHOP OPERATIONS

USING GPS JAMMING DETECTORS TO PINPOINT CHOP SHOPS



GPS jammer which plugs into car cigarette lighter, jamming the signal up to 250m radius, and costs less than £50 on the internet

GPS jammers are increasingly being used by criminal gangs in the UK to facilitate the theft of high-value vehicles which are subsequently taken to "chop shops" where they are illicitly disassembled, and the parts sold on.

Readily available and relatively cheap to buy online, GPS jammers have made vehicle theft more accessible by disabling the GPS based tracking technology of vehicles which interferes with the system's capacity to lock on to the GPS signal causing a loss of connectivity.

As a leading international authority on GPS jamming detection and location technology, Chronos has been working with law enforcement agencies for several years to tackle the threat from criminal jamming. Our handheld jamming detectors have successfully been used in a variety of chop shop raids, identifying both that jamming was taking place and pinpointing the source.

The detectors were used in chop shop raids in the Home Counties for an operation that involved around 450 police officers investigating the thefts of up to 90 luxury cars including Mercedes, BMWs, and Range Rovers worth an estimated £5m. The police forces had been issued with two Chronos jamming detectors due to the high volume of vehicles being stolen and the inability to track them due to jamming. The two devices were used to detect potential chop shop locations and to prioritise search locations. Two multiband jammers were recovered during the raids, the presence of such devices is usually a good indication that other radio frequency signals are likely to be affected or denied altogether, including Airwaves, 3G, 4G, GSM, WiFi, wireless CCTV and many more as well as Police Tetro Radios. GPS Jamming Detectors can give a pre-warning of other signals being jammed closer to the scene.

Easy to operate, the handheld GPS interference detectors use a filtered antenna to monitor the GPS signal. The strength of the interference is visualised with LED lights which indicate the power or proximity of an active jammer. The CTL3520 uses two antennas to calculate the direction of the jamming signal, which is viewed on a backlit screen to identify the source of jamming. If you have any questions or would like more information, please contact the Chronos team who will be happy to help on 01594 862200 chronos@chronos.co.uk



The handheld CTL3520 from Chronos detecting jamming.

Follows us

LinkedIn: <https://www.linkedin.com/company/gps-world-616-from-chronos-technology>
Twitter: <https://twitter.com/gpsjammingdata>



WWW.CHRONOS.CO.UK



Keeping driving staff safe



Systems operating Centre Statistics

July 2021

10,924
Vehicle checks

100%
Stolen vehicle recovery
rate

£606,390
Value of stolen vehicles
recovered

Do you have a vehicle tracking device ?
If not dont worry we can help, call us to discuss

020 8305 2561

PATROLLINE



Mercedes-Benz

VEHICLES COMPATIBLE:



PATROL LINE – CAN-BUS
Future in the present

PATROLLINE

PATROLLINE

PATROLLINE CAN BUS

Installation car alarm
with PIN to PIN cable
ZWW-020490-0

AUDI

THE NEW STEP CLOSER TO THE PATROLLINE!

Now PATROLLINE CAN BUS alarm system are installable, with cable **PIN to PIN**, ZWW-020490-0 to the most of cars of the AUDI brand, showed into the compatible list.



INSTALLATION

The installation became simple and so fast, it's necessary to find and disconnect the radio connector and series link PIN to PIN connectors of the alarm cable: Positive, negative and CAN BUS are already connected.

- Only the rest two wires has to connect by soldering:
- Blinkers
 - Horn

PATROL LINE – CAN-BUS
Future in the present

PATROLLINE



VEHICLES COMPATIBLE:



PATROL LINE – CAN-BUS
Future in the present

Nickleby was formed in 2015 as a result of many years of working within the automotive supply chain sector, servicing OEMs across Europe.

Our mission is to create a unique relationship with your company; to propose a tailor-made strategy of business development and help your business achieve its aspirations and ambitions.

With its offices in the UK and the Netherlands, Nickleby is in prime position with its network of manufacturers to assist your company drive those important areas of Business Development, Company Profiling, Marketing and Sales.

Our small team of experts are complimented by our partner Lenstrat Automotive Consultants, offering a unique and highly flexible proposal that fits your company budget.

Whether you have a single goal or target to achieve, or a general strategy of organic growth, Nickleby can advise and act on its proposal. Our clients range from single unit SMEs to global manufacturers, as well as accessory providers.

They cover volume production parts to bespoke creations. Many of our partners enjoy a relationship that lasts for years and is testament to the trust and faith that they place in us. Let us be part of your journey!

Unlocking Growth Optimised Strategy

We offer profiling, marketing, partnership creation, and importantly access to key customers



In addition to maintaining details on the ISR of vehicles and other valuable assets marked with our system, we also host data on behalf of third-party organisations.
Current customers for these services:



Details of how we operate for these customers are, of course, confidential but we believe our credentials for providing secure data services are second to none:

- Over 30 years' experience in handling data securely
- Data is maintained on in-house servers, not in the cloud
- We have our own IT Department – no outsourcing
- A powerful generator enables us to maintain services in the event of a power cut
- We have our own back-up site (3 miles from the ISR building) which can be operational within less than an hour
- The ISR operates 24/7/365
- The ISR is accredited to: ISO/IEC 27001:2013 and Thatcham TQA for secure database management
- BSI Quality Standard ISO 9001:2015 - The scope for the BSI quality standard covers "The provision of security marking, registration and verification of items of value". Certificate number FS 35576
- Security Vetting - ISR staff are vetted/screened to BS7858. We also run additional checks according to our own strict protocols
- Our Certificate Number under the Data Protection Act 2018 is Z7526962



The most secure wheel lock on the market

- No access to the bolts
- High security lock from Assa Abloy
- Extreme resistance to manipulation and picking.
- Made from highly resistant 6082 aluminum alloy
- Performance tested by Thatcham Research
- Quality tested by TÜV
- Anti-theft tested by RISE





PROTECT YOUR ASSETS!

Smart-Lead Innovation

- ✓ Immobilise if stolen
- ✓ Virtual security fence
- ✓ GPS trackers 'Built-in'



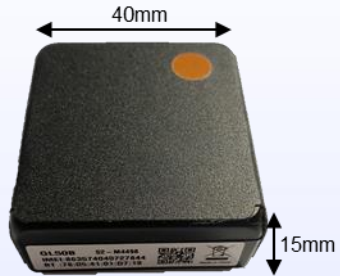
www.sentrysl.com



ncc
www.ncc.co.uk

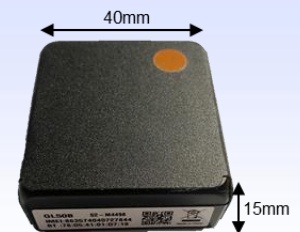
TASSA
The Association of Trade Security Specialists






Trac360 offers various tracking solutions, which will work in conjunction with many anti-theft measures, for a wide range of Vehicles and Assets.


Trac360 wish to help maintain your resources by extending many promotional offers on the reasonable priced hardware, as well as supplying a low cost annual or monthly subscription for the various tracking platforms we provide.







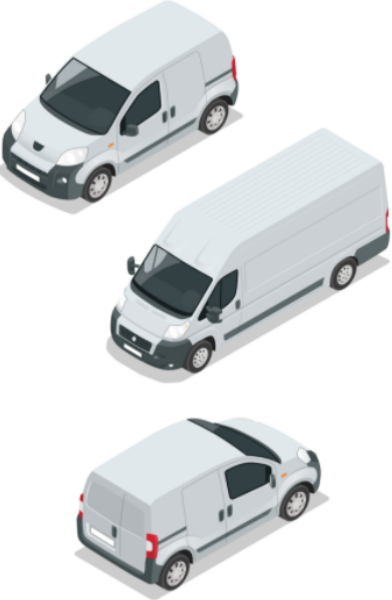
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High Security Secondary Locks

It's where we started! Our in-house R&D team have developed industry-leading lock and key systems, vehicle mortise locks, slam locks. Simple to use. TASSA attack tested.

[Read more >](#)






Preventing Vehicle Theft

We know how modern thieves work and have developed a range of physical and electronic protection for your vehicle. Just as importantly, our anti-theft solutions don't get in your way.

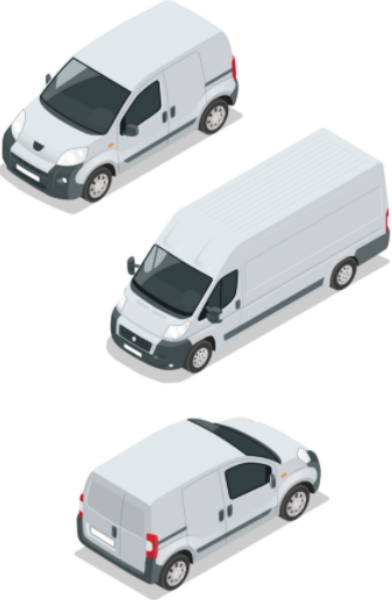
[Read more >](#)




Load Area Protection

Protect the contents of your commercial vehicle with practical, fuss-free solutions designed and manufactured by ourselves. From deadlocks to ArmourShells to RepHandles, ProtektaPlates, ProPlates and more.

[Read more >](#)






OEM Upgrade

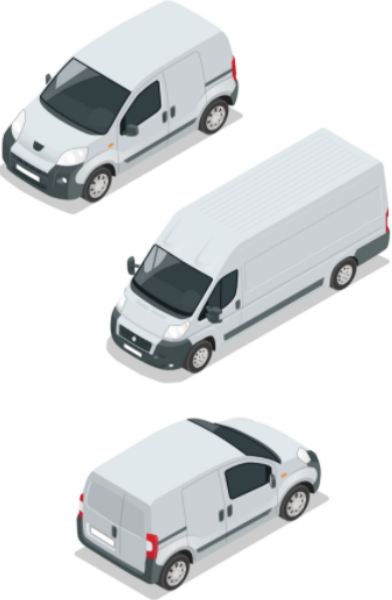
We supply our physical and electronic van security systems to specialist approved fitment centres and as a production line fitment to major vehicle manufacturers. Our upgrades are direct replacements of standard parts.


[Read more >](#)



Protect Components & Accessories

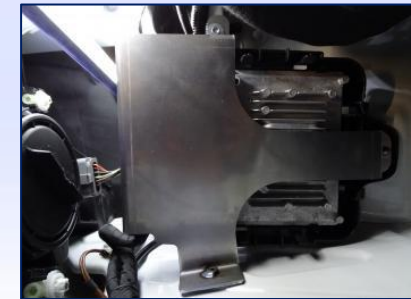
Spare tyre and catalyst protection - no fuss solutions for your vehicle to prevent loss of time and money through theft of these valuable parts.





Electronic Systems Protection

Electronics are a weak-point, allowing access to or theft of your vehicle. We offer effective protection of your vehicle's electronics including OE-compatible alarms and immobilisers.



SOLUTION



INNOVATIVE VEHICLE SECURITY SYSTEM

Based on electro-mechanical principle



GPS VEHICLE TRACKING DEVICE

is build on the newest IoT technologies



BLOCKS UP TO 6 CORE COMPONENTS

What makes much more possible security combinations than classical 2x circuit immobilisers

Partner for testing mechanical and non electrical products

BSI Kitemark™

Prove your products meet the optimum standards for quality and reliability.



BSI Kitemark™ for products

The BSI Kitemark™ is a quality mark owned and operated by BSI. It is one of the most recognised symbols of quality and safety and offers true value to consumers, businesses and procurement practices.

With UKAS accreditation - benefits include risk reduction, increased customer satisfaction and access to new customers around the world.

The BSI Kitemark is a trade mark owned by BSI and was originally only used in the UK, but it is now recognized throughout the world as a mark of quality.



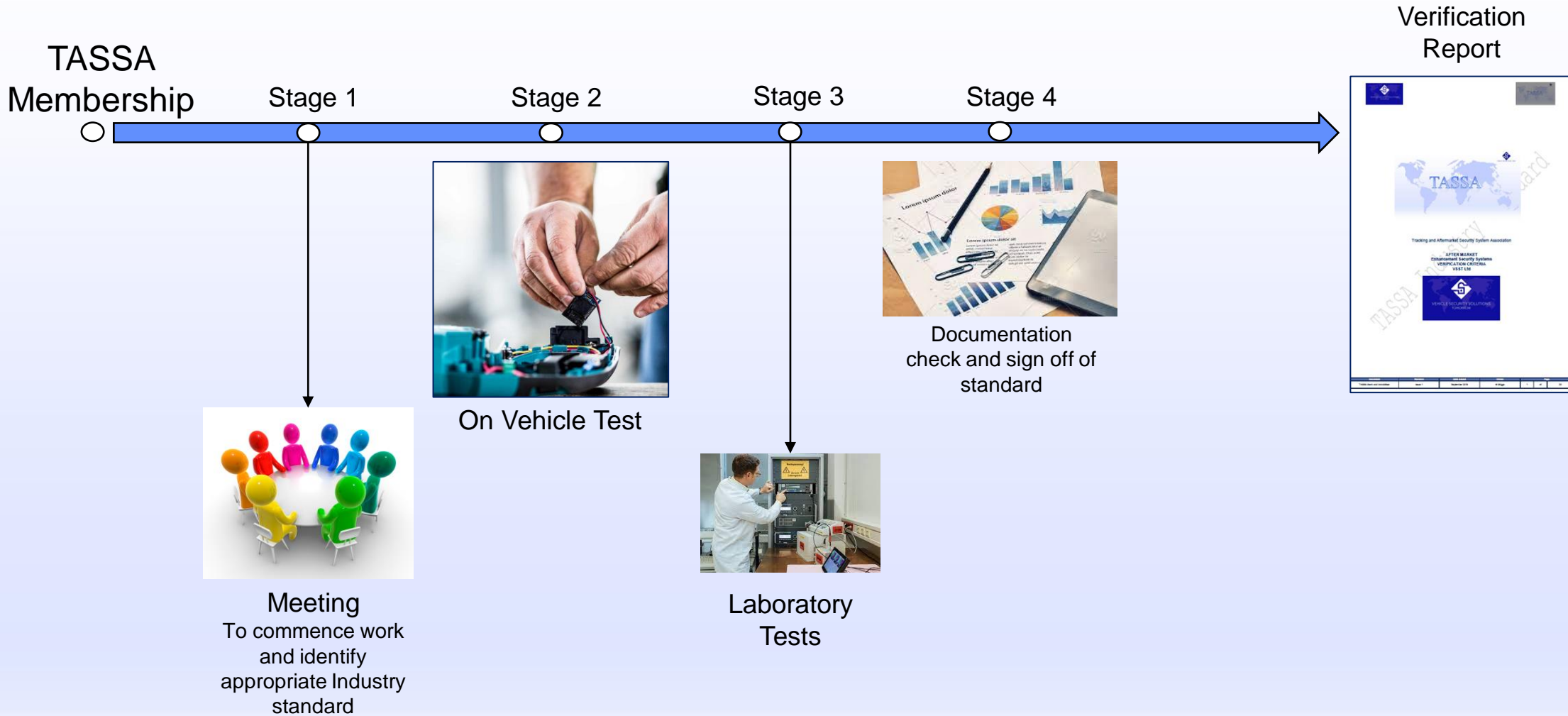
PASS



Key Pouch at Completion of Test (20,000 cycles)

Not all faraday bags passed our tests

Verification of systems to an Industry Standard



Systems should only be fitted by product trained installers.

Currently 487 TASSA Register installation companies

All are installers:

- DBS checked
- Insured
- System Installation Trained
- Pre-installation stolen vehicle check
- Installed system entered into TASSA database
- Fingerprint layer added to each vehicle



Database Benefits

A one stop shop.

- Database aligned to Police National Computer (PNC).
- Theft reported on PNC alerts insurer.
- Insurer informed if and when a system is fitted.
- Reactivation on alert if system out of subscription.
- Continual search on all vehicles in the database even after PNC has dropped them.
- Database pings insurer that system is fitted.
 - Before policy is taken or at time of claim.
 - Reactivation/subscription.
 - Stolen vehicle reinsurance alert
- Speed up complete process.
- If vehicle is recovered to compound after an RTA and where about is unknow, tracking systems in database will give location.

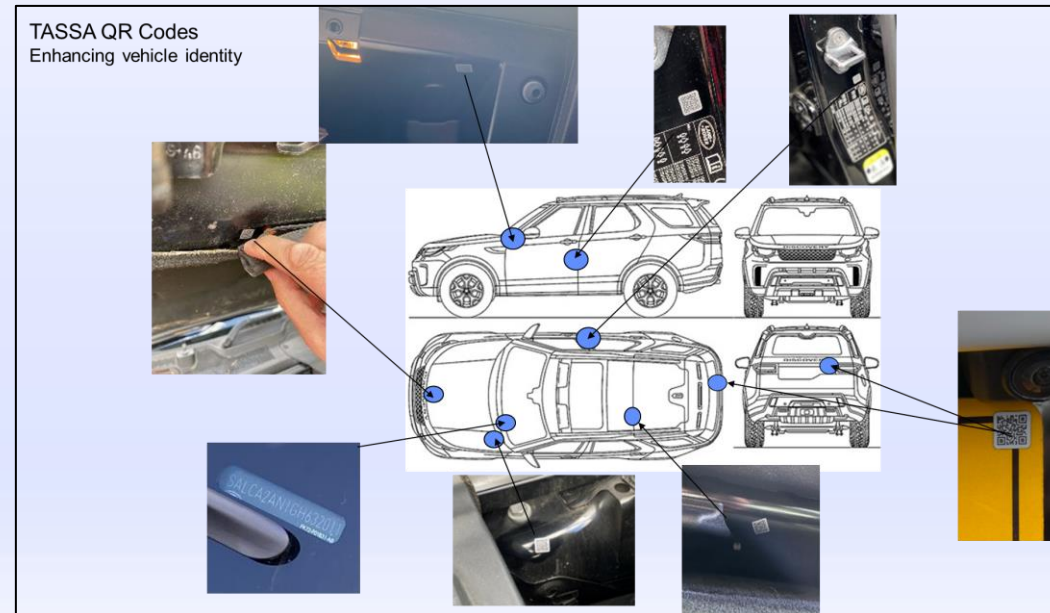


Current Information Recorded for TASSA Installations

Central Database:

- Product Supplier
- Product Type
- Product serial numbers
- Vehicle Registration Number
- VIN
- Make
- Model
- Year of Registration
- System Serial No.
- Installation Date
- Installation Company
- Installer
- Customer Postcode

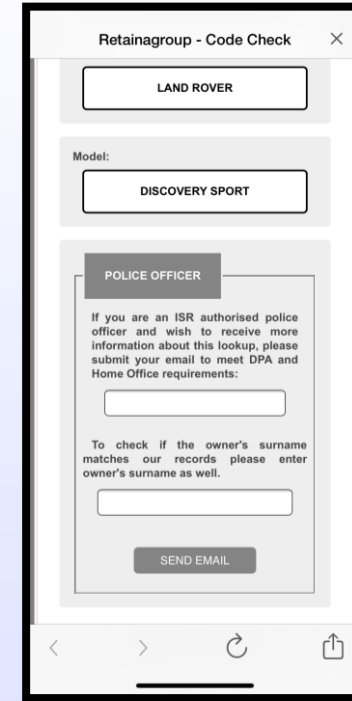
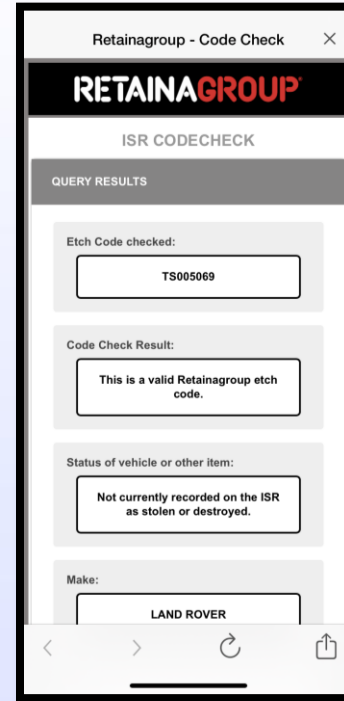
Every TASSA Installation is also fitted with 6 ultra-destruct labels with a unique code that links to an online checking portal.





Upon scanning a QR code

When an officer scans the QR code on a smart phone it leads to the vehicle captured on the Retainagroup portal.



Autonomy level	VRM,	VIN	Make,	Model,	Colour	Trim	Propulsion system	Immobiliser	immobilisation capability	SOC	Product supplier	Installer
2	I AM 1	12345678	Man Trucks	TGX	Yellow	D38	Diesel	Software	Yes	N/A	Immobiliser Tel 016221122334	Company ID XFZ9876

Reports Available to view:

- Home Office Monthly Report
- Manufacturer Example Report
- Dealer/Installer Activity Monitoring Report
- TASSA Installer PNC Checking Report
- Solutions Provider Report and certification