

KEY CHALLENGES IN THE POLICE SECTOR

A Turbulent Landscape

The Police Service faces a rapidly changing landscape whilst at the same time being challenged to provide new and improved services to the citizens they serve. Demand for police services has reached record levels, along with new threats that are constantly evolving. These include tackling rises in violent crime, city gang related offences and additionally the sustained increase in terrorism. The number of arrests being made by the UK's Counter Terrorism network has also risen by 17% in 2017 according to figures released by the Home Office.

The most pressing external challenge for the police service as a whole is how to prepare for the impact of Brexit. Understanding the security arrangements that will need to be made for the withdrawal from the European Union in March 2019 is key for strategic planning, including continued cooperation in tackling Europewide crime and combating international organised crime, human trafficking and terrorism. In addition, there is the possibility that Britain's exit from the European Union will trigger a spike in hate crimes.

Although there is a high staff retention rate within the service, a surge in retirement continues to drive high recruitment patterns but positions are harder to fill due to higher entry requirements. Around 85% of Police Force budgets are spent on salaries and with successively tough financial settlements there is tremendous pressure to reduce operating costs and maximise the value from available budgets. This pressure is further amplified by the increasing population, which challenges forces to protect more people with less resource.

The Minister for Policing and the Fire Service, Nick Hurd has recently announced a Front Line Review, providing an opportunity for frontline police officers and staff to give their views on how the Police Service can be improved. Speaking to policing leaders at the Police ICT Company Summit in Hinckley, Leicestershire, he commented that "While policing's greatest asset is its people, its biggest opportunity is technology. I see transforming our police forces, so that they are thoroughly equipped for the digital age, as critical to our shared mission – cutting crime and protecting the public. Progress is being made. However, it is absolutely essential that we do more."

Radical change is certainly the most likely forecast for the foreseeable future.

Provide Efficiencies Through New Ways of Working

Demand for police services is increasingly more diverse and complex. Forces need to be able to release resources to frontline delivery and to improve their operating efficiency so that more resources can be invested in crime prevention.

Successful policing operations can often be difficult to provide effectively if forces are constrained by geographical boundaries. Police forces can be challenged when operating within their proscribed boundaries as they try to coordinate resources from multiple forces to investigate crime. For example, the National Crime Agency National Briefing Report published in November 2017, highlights that "County lines groups have a proven ability to adapt their operating methods and practices" and that they "impose high levels of violence, including the prevalent use of weapons and firearms" to enable them to evade law enforcement intervention

Collaboration between forces is self-evidently right in principle but extremely challenging to achieve in practice. Providing effective, integrated services with other agencies and services in the same region such as Social Care, NHS, the Crown Prosecution Service and the Prison Service improves outcomes for citizens and is in the public interest.





It is often very difficult to both reduce operational costs and improve operational efficiency whilst supporting legacy systems and infrastructure. However, new data acquisition, digital analysis and predictive technologies are beginning to enable faster and more efficient police services through data driven insight. Combining machine-led analytics and officer-led analysis capabilities to enable increasingly scarce resources to target individuals likely to commit crime or hotspots within regions, will be an attractive prospect.

Engaging Citizens and Building Confidence

Retaining and improving public confidence in the police service is essential at a time when public scrutiny is more intense than ever. The Office of National Statistics published a report in October 2017, which stated that 78% of people aged 16 and over in England and Wales have confidence in their local police force. By adopting a digital policing focus, police forces now need to adapt to how communities want to contact and interact with them.

Social media channels can act as an important vehicle for developing social inclusion with the public and local police forces by encouraging interaction and involvement through information campaigns i.e. missing person notifications. With citizens increasingly preferring to engage electronically, via email, Facebook, and Twitter, it is essential that police forces use the digital ecosystem to help solve crime and build public confidence. As these channels mature, more and more citizens will expect to engage with police forces through them.

The public rightly expect the police service to act with integrity and impartiality. Whilst advanced technologies such as body worn video can help to improve engagement and confidence in evidence capture and day to day contact with officers, the use of these technologies also raises questions of access to, and the sharing of this information. Compliance issues and data retention regulations such as the General Data Protection Regulation (GDPR) will increasingly begin to raise challenges in the new world of policing.

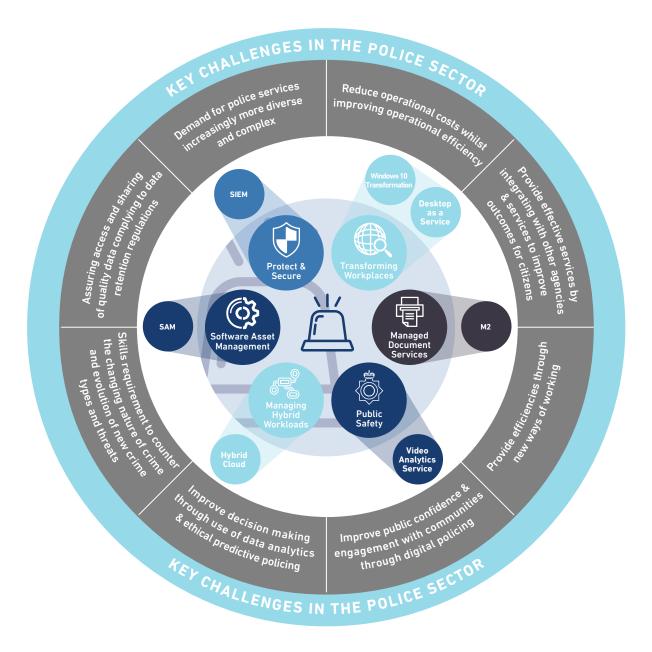
Responding to the Changing Nature of Crime

The very nature of crime is changing rapidly and so must the police service.

Cyber crime manifests in many forms, ranging from ransomware attacks to phishing scams which can infiltrate email accounts worldwide where specialist criminal groups target individuals, small businesses and large corporate networks. A report by the British Chambers of Commerce (BCC) found that cyber criminals have attacked one in five British businesses in the past year and only 24% of businesses said they had security in place to guard against this.

The arrest of the suspected €1bn 'cyber heist' criminal network in 2018 dramatically highlights how digital crime is increasingly impacting crime detection, investigation and prosecution. Police forces will require specialist skills in digital forensics to combat these types of new crime and the increasing threats to public order from human trafficking, online abuse and cyber-fraud.

KEY SOLUTIONS FOR POLICE



Fundamentally important to SCC for many years, our depth of experience, knowledge and sector insight has allowed us to develop a deep appreciation of the key challenges faced by our Police Sector customers. Applying this understanding to our broad portfolio of services and solutions, we have identified six solution areas that can directly and positively address key challenges faced by the sector today.

THESE ARE:

Transforming Workplaces – Flexible access to data and applications whenever and wherever they are required, whilst protecting the organisation's infrastructure.

Managed Document Services – Improved data management, accessibility and collaboration through document digitisation.

Public Safety – Gain insight and intelligence from advanced video analytics.

Managing Hybrid Workloads – Consume cloud services from a variety of cloud providers to best suit the organisation's workloads.

Software Asset Management – Increased compliance, predictable costs and control over software usage.

Protect and Secure – Security and event management to proactively monitor, alert and manage threats to the organisation's infrastructure.



TRANSFORMING WORKPLACES

As police services become increasingly complex, officers and staff are demanding access to their information and applications instantly from wherever they are. A transformation in culture and process is needed to improve collaboration and support mobile working to enable the creation of a truly mobile police force.

To take advantage of modern workplace solutions, benefit from cloud services and deploy artificial intelligence and process automation effectively, the barriers of supporting legacy infrastructure and applications need to be removed. Most UK forces are struggling to support their legacy end user environments, spending disproportionate effort in delivering day to day services, with no opportunity to drive innovation that would deliver maximum value to the officers.

Transforming to a Digital Workplace

We engage with police forces to understand how their workplace operates and co-develop their transformation to a digital workplace. Using our methodology, EUC Consult™ we support police forces in a rapid transformation to the Windows 10 workplace that is specifically architected to their requirements. We provide a full spectrum of strategic advice, architecture and design, deployment and delivery programmes to support transformation objectives, together with providing a fully managed workplace service. We can design, deploy and manage:

Digital User Platforms – including Microsoft Office 365, Azure tenancy, user adoption or identity management.

Digital Delivery Platforms – including enterprise management systems, application packaging and management or endpoint security.

Digital Workplaces – through Desktop as a Service, device maintenance and end user support services such as next generation Service Desks.

Desktop as a Service

SCC's Desktop as a Service (DaaS) can help deploy a modern Windows 10 environment for officers and staff to access their critical applications, whenever and wherever required, whilst protecting the underlying infrastructures integrity. DaaS ensures ongoing security, compliance and availability of applications. Hosted on SCC's secure and resilient cloud platform, DaaS allows rapid provision of users and offers flexible device options, so that users can work from any location on their preferred device. DaaS fully supports Bring Your Own Device initiatives to allow officers and staff to securely access applications using their own technology.

Our DaaS solution is delivered as a managed service to maintain desktop profiles and operating systems to current vendor releases. Forces benefit from continuous support hours, guaranteed service levels and predictable monthly costs. The service is charged on a per user basis scaling up and down as requirements change to ensure forces only pay for active users.

Asset Lifecycle Services

When performing a transformation to Windows 10, SCC can provide customers with a complete asset lifecycle service from initial procurement and commissioning through to recycling and remarketing. This fully auditable approach allows our customers to seamlessly track and manage their estate through our integrated tool, LifecycleTM. All lifecycle services are provided from our secure National Distribution Centre (NDC) located in Birmingham, designed to provide customers with a 'just in time' asset delivery model. Our technology Commissioning Centre is dedicated to securely building, configuring and packaging assets to our customers' specific requirements before shipping them to site.

SCC's Lifecycle™ tool enables forces to manage the products and services they procure from SCC. Providing a real-time catalogue of available offerings, to enable Forces to easily select the technology they require from a tailored database and the tracking facility allows immediate visibility of their asset estate, driving cost savings through clear pricing and device rationalisation.

SCC's engineering services, offer the police service access to world class break-fix services with SLAs which exceed industry standards. To complete the lifecycle, SCC's Recycling Centre recycles, refurbishes and remarkets IT assets to generate revenue for reinvestment, support environmental aims and ensure data security during the destruction of data bearing devices.





Benefits

- Enables new ways of working through a modern, supported workplace
- Access to industry leading expertise on workplace transformation
- Consumption based charging delivers cost savings
- Improved purchasing, deployment and management of assets
- Release resources to focus on delivering future transformation.



MANAGED DOCUMENT SERVICES

Police forces are constantly challenged to improve operational efficiency and outcomes for citizens, whilst reducing operational costs in a world where threats are always emerging and evolving. Identifying new ways of working which take advantage of innovations in technology, such as data analytics and digital analysis can enable more efficient police services. Using data driven insight, decisions are made faster, with ethical predictive policing freeing up scarce police resource to focus on preventing future crime and citizen safety.

Managed Document Services

SCC's Managed Document Services provide innovative digital document management solutions to help customers improve efficiency, streamline workflow and reduce costs. Secure record scanning services assist forces in adding historic paper-based police records to the Police National Computer database.

Our Managed Print room solutions include expert secure scanning services, which enable our Police customers to digitise sensitive documents and records without the need to send them off site. We deploy smarter digital working methods and skilled resources which reduce print volumes and improve file accessibility. The upstream costs of filing are removed and comprehensive document management becomes more efficient and effective.

We also offer specialist secure off site scanning for large volume archiving and specialist litigation support. Digitisation allows data silos to be identified and eliminated, helping to create a complete, integrated, indexed view of all data held by the police force. This is particularly important following recent changes to data protection laws and for ensuring data security, as digital versions of documents are inherently more secure than paper versions, protected against accidental destruction or damage.

Storing digitised documents in either on-premise or an accredited secure hosted solution, such as SCC's secure cloud platform, Sentinel, ensures the security and integrity of the data, documents and records. Moving to a cloud environment increases the accessibility to information, making it available from anywhere, at any time in a highly secure and controlled manner. The ability to access relevant information actively promotes a working environment that encourages collaboration and communication between Forces and other partner organisations. Our document digitisation solution is fully managed by SCC, giving Police Forces access to SCC's specialist managed print resources, without the requirement for recruiting and retaining additional in-house skills.

Benefit

- Predictable, controllable and appropriate expenditure
- Creates a single view of citizens and crime via document digitalisation
- Crime and Police records can be shared quickly across multiple police forces and crime agencies, allowing collaboration across agencies
- Increased accessibility of relevant information for staff and citizens
- Increased data security protecting information against damage
- Faster data replication of digital data
- Easy access to historic information
- Enhanced collaboration between partner organisations
- Enables rationalisation of property assets
- Positively supports police organisations' sustainability agendas.



PUBLIC SAFETY

Advanced Video Analytics

UK Police forces represent the front line of the protection of public safety. Figures released by the Home Office show rises in violent crime, including the use of weapons and firearms, city gang related offences and a sustained increase in terrorism (The number of arrests being made by UK's Counter Terrorism network has risen by 17%).

The challenges faced by the police service in addressing this increasing level of risk to public safety are exacerbated by tremendous pressures to reduce operating costs and maximise the value from available budgets. The Minister for Policing and the Fire Service, Nick Hurd commented that "While policing's greatest asset is its people, its biggest opportunity is technology. I see transforming our Police Forces, so that they are thoroughly equipped for the digital age, as critical to our shared mission – cutting crime and protecting the public." It is here, in equipping UK Police Forces with transformative technology that SCC can make substantial contribution to improving public safety.

Video Analytics is fast becoming the "third forensic" after DNA and fingerprinting, and UK police forces require an advanced video analytics solution to retrospectively view large amounts of Mobile, CCTV and Body Worn Video formats to support a video evidence process.

The SCC Public Safety solution is unique as it addresses the whole workflow case management for police users and is based on SeeQuestor Video Analytics technology. It provides video ingestion, conversion, case management and video analytics capability, including face and attribute detection and subject re-identification. Delivered as an easy-to-use, self-service utility that any police force can subscribe to, our solution takes in ("ingests") video from CCTV, mobile phones and body worn cameras. It analyses this data, including face recognition, whole body detection and re-identification and location (where the subject was when the footage was taken). This enables officers to rapidly find persons of interest and create an evidence audit trail to ensure the video evidence is admissible in court.

Benefits

- Significantly reduces the time and cost of analysing video
- Increases accuracy in finding persons or items of interest
- Easily access a 'pay as you use' Video Analytics as a Service
- Platform ready solution available on demand.



MANAGING HYBRID WORKLOADS

To deliver value to citizens and meet the ongoing increase in expectations, the police service needs to look for new ways of working to increase operational efficiency, deliver better services and reduce costs. Police forces must strive to deliver digital transformation and integrated services with other agencies. Creating systems of engagement that provide citizen choice, ease of use and access, along with simplification of processes is key for transformation.

As a major holder of sensitive public information and secure data, the police service is challenged to keep citizens' data secure whilst complying with increased regulations. SCC is well positioned to help with these challenges as we own and manage three Tier 3 data centres in the UK that house our own private cloud environment, Cloud+, and our secure, government accredited cloud environment, Sentinel.

We also have strong partnerships with Microsoft and Amazon Web Services to offer our Police Sector customers a choice of hybrid cloud services to provide the most appropriate cloud solution for their infrastructure and workloads.

Our Data Centres sit within our national fibre optic network Platform One. Platform One connects through our secure and resilient backbone into SCC's cloud infrastructures and offers private connections into the hyper-scale clouds provided by Microsoft and Amazon.

Universal Cloud Services

SCC Universal Cloud Services (UCS) allows police forces to consume cloud services on a pay-as-you-go model, selecting services from a variety of providers to best suit workload requirements. It allows organisations to mix traditional hosting with cloud services to create a hybrid solution, composed of public cloud, private cloud and onpremise infrastructure, combined to work seamlessly as one platform. SCC's UCS is a managed service, allowing police forces to consume cloud services from multiple providers, with visibility through one management platform and one consolidated monthly bill. The platform provides detailed billing insights, data usage reports and analytics to enable the organisation to track consumption and rationalise infrastructure, minimising waste storage and bandwidth.

SCC Network Operations Centres in the UK, Romania and Vietnam offer proactive 24x7 monitoring and management of the infrastructure, standardised across all environments and has the tools and experience to migrate workloads between platforms. Working alongside the police Service, SCC provide consultancy services based upon our extensive public sector experience, advising on which workloads are best suited for a cloud environment to help deploy the optimum model for applications, security requirements, and budget.

Implementing a hybrid cloud solution allows organisations to mitigate the challenges caused by complex applications built on legacy infrastructures, deciding which workloads to move to the public cloud, which could be migrated to private cloud, and which need to be kept on-site. This ensures police forces get the maximum benefit and an optimised performance from each workload. Some services cannot be moved to the public cloud due to regulatory and legal restrictions, so opting for a hybrid cloud solution allows these workloads to be managed either on-premise or stored in SCC's secure private cloud, Sentinel. Hybrid cloud allows the police service to take advantage of unlimited resources based on demand-driven usage and move workloads to their optimum environment for performance.

Benefits

- Customers can be transitioned quickly, enabling rapid and secure consumption of cloud services
- The IT environment is more agile and scalable to future requirements.
- Effective workload provisioning is enabled and accelerated
- Consumption based reporting allows for accurate billing
- SCC offers multiple levels of support from consultancy, simple support and maintenance to a full managed service.



SOFTWARE ASSET MANAGEMENT

Demand on police services is growing with new and emerging threats constantly evolving. As these threats are becoming increasingly more complex and diverse, forces need to release their limited resources to focus on front line service delivery. Cost efficiencies are dependent on how agile and responsive forces are, with new ways of working driving cost savings which can be reinvested into additional resources to focus on crime prevention.

Software and applications are critical and costly components for the Police Sector. Both business processes and legal support systems are fully reliant on software, with complex user and business requirements driving growth. Managing a disparate and diverse software estate is a complicated, time-consuming and expensive process. As software is becoming a critical element of business systems, the responsibility is firmly on licence holders to comply with the terms of their licenses.

This provides a challenge, as innovations in data analysis and digital evidence continue to drive integration of the software estate into modern day policing. With widely varying commercial terms and complex pricing models, as well as the complexity created by cloud-based services offering consumption based licensing; a disproportionate amount of effort is required to manage the software estate, with little time to drive license consolidation and cost savings.

With software vendors able to audit their customers at any time with increasing frequency, non-compliancy, could be an expensive issue for police forces when capacity and expertise to deploy a robust plan to effectively deal with an audit are limited. SCC works with police forces to implement a reliable software licensing and asset management process to enable increasingly scarce police resources to be released to focus their time and effort on improving public services.

Software Asset Management

Using SCC's Software Asset Management (SAM) service, we work with police forces to evaluate their technology and licensing contracts, assessing software usage and identifying any issues and commercial risks. We can proactively manage the risk of non-compliancy, save money through effective use of licensing and streamline future renewals and procurements through the correct utilisation of the existing estate. Providing insight into their software estates puts forces back in control and highlights areas of rationalisation to provide savings and ensure compliance with both vendors and legal regulations.

SCC's SAM Maturity Assessment identifies any gaps in existing tools, policies, processes and governance to help deliver control over software from requirement to retirement, with deliverables including a gap analysis, next step recommendations and priorities. The aim of the assessment is to determine risk and assess the impact this would have on the police force. A plan can then be documented which advises how to minimise exposure, increase management and control and deliver value back into the force.

By identifying how software and applications are used, SCC can map this against the Forces' license history to identify savings that can be made through license consolidation. We review market trends together with licence metrics and price changes to help our Police customers secure the right product, at the right time, under the right terms.

To ensure our Police customers can achieve optimum value from their software estates, we deliver clear management reports and recommendations for improving efficiency and mitigating risk. We can also provide best in class tools to monitor and track usage effectively, ensuring compliancy with vendor licensing requirements, where non-compliance carries significant fines and reputational risk.

Benefits

- Increased use of applications can encourage new ways of communicating and interacting with police forces
- Visibility and control over software usage across your complete estate
- Predictable software spend
- Implementing a common software platform can enable collaboration across forces and agencies
- Licence rationalisation can significantly reduce costs and risk
- Reduced costs and enhanced commercials using SCC's
 buying power
- Increased compliance, licence optimisation and control over rogue spending.



PROTECT AND SECURE

Securing citizen and police service information has never been more important. With recent high profile data breaches and changes to data protection regulations, police forces are under pressure to protect their IT infrastructures and information. This is compounded by the difficulty of integrating and updating their legacy systems and a shortage of in-house security skills.

SCC can help address these issues by enabling the police service to provide citizens, officers and staff with secure access to a compliant IT infrastructure that protects their data, network, applications, and devices from internal and external security breaches.

We work with leading industry manufacturers to offer security solutions which will secure every aspect of a police force's IT network and infrastructure. This includes implementing next generation firewalls, which go beyond basic firewall functionality to provide a host of other features including intrusion prevention, sandboxing, web filtering, email filtering, SSL inspection and anti-malware. These solutions work seamlessly together to protect against and halt the spread of viruses, malware and ransomware attacks. SCC can design, install and manage these solutions for organisations using our own in-house expertise.

There are a range of other security solutions that we can provide including network enforcement, policy and access control, VPN, cloud security and end point security. The aim of these solutions and services is to provide a protected and compliant IT environment allowing Police forces to protect their reputation, secure their intellectual property and offer a future-proofed IT infrastructure.

Security and Event Management (SIEM)

The police service is facing constant targeted security attacks which are always advancing in complexity and ingenuity every year. In today's landscape, Security Information and Event Management (SIEM) is an important piece of any organisation's security strategy, to monitor the whole network and all connected devices and proactively alert organisations of impending risk. In the fight against cyber-crime, SCC can deliver a full SIEM service for organisations to protect their data, information, intellectual property and most valuable information assets.

With the ability to integrate with a wide range of customer systems including environment logs and network devices, endpoints and applications, SCC's SIEM service delivers a complete view of visible and 'invisible' security threats to an organisation. By collecting and comparing data against a globally sourced catalogue of known and emerging threats, the SIEM system can proactively alert the organisation when a threat is detected, so they can anticipate and respond to the intrusion.

Using the market-leading advanced analytics engine, IBM QRadar, SCC's SIEM service provides 24/7 proactive security event monitoring and alerting, removing the burden of having on-site security specialists as we manage a bank of available, highly skilled resources to support police forces, flexing up or down as required. Our Security Operations Centre complies with many government accreditations including ISO 27001:2013, GPG13 security compliance for PSN and PCI Compliance.

Ensuring the security of an organisation from cyber-attacks or events with real-time monitoring and reporting, SCC can release time and resource for police service IT departments, by supporting the availability of applications and the security of the organisation's data.

Benefits

- Protects the Police Service's reputation and productivity
- Secures the Police Service's most valuable assets
 - its confidential information and intellectual property
- Transforms the cyber-security approach from reactive to proactive
- Supports the Police Service's security compliance strategy
- Reduces the cost of security monitoring and risk assurance
- Removes the requirement for in-house skills.

CUSTOMER TESTIMONIALS



"At West Midlands Police we have to continually find savings without cutting our front line and essential services. SCC have managed to help us find considerable savings in the way that we purchase our IT equipment. Their Lifecycle Services have integrated well into our own internal systems and processes, leading to faster, more cost effective and efficient purchasing. We now see SCC as a partner, not just a supplier and look forward to working with them on more initiatives that will continue to make our consumption of IT more efficient"

Leigh Jones, Head Of Contracts and Procurement West Midlands Police



"The quality of our ICT systems and infrastructure are critical in allowing us to achieve our core purpose of keeping the people of Lancashire safe. We have worked closely with SCC for five years as a key supplier and have a strong working relationship through which we ensure that we achieve value for money. They provide dynamic solutions and high quality support services and we therefore consider SCC to be a trusted provider."

Edward Newton, Head Of ICT Lancashire Constabulary



"Our Force had a requirement to swiftly procure new technology into the hands of our front line officers. SCC helped us realise this requirement with a strong degree of professionalism. Their solution has enabled us to develop an increased level of efficiency in the Policing service to our community"

Narinder Singh, Head Of Procurement East Midlands Strategic Commercial Unit Nottinghamshire Police



"Over the last 3 years SCC have been one of the main suppliers used for the complete refresh of our end user estate. As part of this programme SCC introduced processes and governance that ensured the smooth delivery of their element. We are impressed with their abilities and appreciate the service that they have provided which was invaluable in order to meet our operational needs."

Robert Reay, IT Support Analysts Team Leader Leicestershire Constabulary

