



Report to: Finance Group
Agenda item: 7
Date: 19 March 2013
Subject: BTP CCTV Hub Phase 3
Sponsor: Director of Corporate Resources
For: Decision

1. PURPOSE OF PAPER

- 1.1 This paper summarises the full Ebury CCTV phase 3 Business Case. More detail can be found in the main document, and associated appendices.
- 1.2 The purpose of this paper is to obtain sign off for the Network Rail funding agreement of £1.8 million for the initial elements of Phase 3 of the CCTV Programme.

2. BACKGROUND

- 2.1 CCTV is a major aspect of BTP operational policing. Significant investment has been made of circa £8million to develop Phases 1 and 2 of the BTP Pan London CCTV Hub at Ebury Bridge. Phase 1 of the project provided a total of 31 CCTV workstations with the capability of accessing 7 rail transport CCTV systems that were integrated with the IPSC systems integration software. In addition to being able to view live and recorded images, CCTV operators are able to download recorded images (rail operator specific) and have the ability to push images to other locations or workstations.
- 2.2 Phase 2 further developed BTP's CCTV capability through the deployment of IPSC system at other key BTP and MPS Command and Control locations. An additional 7 rail operator CCTV systems were added to the IPSC, providing a footprint of 14 rail operators, 650 stations and 40,000 cameras in total.
- 2.3 The existing CCTV capability has been a huge success and has delivered a number of business benefits. It has been recognised that CCTV is now a critical tool for BTP in



event management, live viewing and post incident investigations. Phases 1 and 2 have delivered a number of benefits to BTP which include:

- Better accessibility to CCTV and capability for Live CCTV monitoring to identify suspicious and criminal behaviour
- Capability to push images to FCRL and FCRB¹
- Capability to rewind footage to enable rapid decision making
- Release of officer time by reducing involvement in requesting and downloading CCTV from TOCs
- Enabling CCTV to be used as an investigative tool to help identify suspects or witnesses and identify areas for forensic opportunities

2.4 With BTP using CCTV more proactively, it is necessary that the BTP system is further enhanced to provide a more resilient and efficient CCTV service. CCTV can now be used in new and innovative ways to support passenger safety, improve the judicial process through increasing timely judicial outcomes, support force priorities through policing initiatives such as Theft of Passenger Property and combat the current heightened national security threat.

3 PROPOSAL

3.1 Phase 3 of the CCTV Programme will continue to be funded by Network Rail and seeks to deliver two distinct deliverables. These are:

- Foundation Scopes (Funding of £1.8 million secured) to be delivered by March 2014
- Priority Scopes (Funding Proposal currently with Network Rail)

¹ Force Control Room London and Force Control Room Birmingham



3.2 A breakdown of the deliverables under the Foundation Scopes is outlined below:

3.2.1 A refresh of the IP Security Centre (IPSC) integrated CCTV system

- This scope will make an enhancement to system capacity by upgrading the platform resulting in improved scalability allowing a near infinite number of streams to be added to IPSC
- The refresh will provide improved mapping facilities to allow CCTV operators to obtain quick access to CCTV cameras across stations and increased system monitoring capacity to existing street camera locations
- Capability for playback of images and the ability to push them around the BTP estate where functionality is currently not available
- Upgrade of the Spot² recording solution allowing CCTV operators to obtain appropriate recorded images for investigation and intelligence

3.2.2 Network Improvements

- A review of the required level of security will result in improvements in network security from a physical and network perspective. Network enhancements of the Ebury Bridge hub will enable the CCTV system to be linked to other disparate systems across BTP. This is in alignment with Phase 2 of the CJS Efficiency Programme which focuses on the efficient capture of evidence and the emphasis of a 'digital first' approach through reducing the manual capture of evidence. Alternatively evidence should be collected digitally at the first point such as through body worn video or mobile data.

3.2.3 Refresh of existing video walls to manage CCTV in a flexible manner

- This scope will result in the refresh of video walls that have reached their capacity limits and are due for an upgrade. The new video walls will be able to incorporate multiple screens, examples of which include social media information, site maps, strategic plans and broadcast news enabling BTP control rooms to manage CCTV in a more flexible manner.

² Spot recording is the ability to instantly record live CCTV



3.3 A number of priority scopes are also scheduled for completion prior to March 2014. These include new integrations to strategic Rail operator locations. These are outlined below:

- Arriva Train Wales
- NR Blackfriars
- NR Kings Cross
- NR Glasgow
- NR Edinburgh
- NR Birmingham New Street
- NR Out of London Station Improvements
- Brent/Westminster/Heli/Tele
- St Pancras International
- High Speed 1
- Scottish Processing and Events Room
- Digital Evidence Repository³

3.4 In addition to the defined short-term project scopes there is an intention to improve the system incrementally over a further 5 year period. These additional scopes will be Network Rail funded through the CP5 funding stream. Initial discussions for the proposed longer-term work stream have taken place with Network Rail and a subsequent business case will be submitted to Network Rail following discovery workshops within BTP to understand the detail of the proposal going forward.

3.5 The longer term proposals are expected to provide additional TOC integration, on train CCTV footage and further infrastructure improvements enabling BTP to become industry leaders, in alignment with the CJS Efficiency Programme and ensuring that evidence is captured efficiently through a 'digital first' approach. Examples of these include:

- A CCTV Imagery network
- Live streaming of body worn cameras

³ Single repository for the storage of all digital evidence across BTP



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- Automatic Number Plate Recognition (ANPR)
 - Streaming of CCTV footage into custody suites for early charging decisions

4. BUSINESS BENEFITS

4.1 The completion of Phase 3 of the CCTV Programme has a number of business benefits which include:

- An increased viewable footprint with improved CCTV coverage to support live viewing for intelligence gathering and/or serious and critical incident decision making, intervention and deployments
- The CCTV Digital Evidence Repository will be a single repository for the storage of all digital evidence across BTP and whilst increasing storage space it will also reduce the cost of DVDs and CDs
- Increased scalability will allow BTP to incorporate additional streams to the IPSC in the future

5. STRATEGIC BENEFITS

5.1 Phase 3 of the CCTV Programme will also result in business benefits that are aligned to BTP's 2013 - 2019 Strategic Plan. These include:

- **A 20% reduction in crime** – An effective CCTV system will reduce crime and disorder and protect the railway environment by reducing the turnaround time for all priority cases. An increased CCTV footprint will assist in timely production of CCTV evidence packages speeding up the investigation process and supporting frontline officers.
- **A 20% reduction in disruption minutes** – A more robust and efficient CCTV system with the right coverage, CCTV operatives and connectivity will enable better and more accurate decision making reducing delay caused by disruption.
- **A 10% increase in passenger confidence** – Phase 3 of the CCTV Programme will improve victim or rail customer reassurance and confidence by providing precise information through enhanced customer friendly capabilities for example when talking step by step through a case with the victim whilst viewing CCTV.



6. FINANCIAL IMPACT

6.1 The cost profile outlined below shows the financial breakdown of all the Foundation Scopes due for completion by March 2014. Additional funding to commence work on the Priority Scopes will require supplementary funding once the Foundation Scope works are completed and benefits are realised.

Network Rail CP4 Funding

Deliverable	Funding Contribution	Contingency
Project mobilisation	£78,000	£3,900
Review Network Security	£10,000	£500
Server room infrastructure - core	£200,000	£10,000
IPSC Existing TOC/NWR Re-Mapping Surveys	£250,000	£12,500
Server room infrastructure- Support	£160,000	£8,000
Review / Implement Ebury Bridge Security Level	£100,000	£5,000
Completion of IPSC core platform to IPSC V5.0	£250,000	£12,500
Develop National Network Architecture	£90,000	£4,500
Video Wall Refresh	£222,000	£11,100
- IPSC Map Navigation Interface	£210,000	£10,500
- Reporting Tools		
- Improve Playback Push		
- Upgrade Spot Recording		
- System Configuration repair tools		
IPSC Existing TOC/NWR Re-Mapping Implementation	£150,000	£7,500
Subtotals	£1,720,000	£86,000
Total cost of the Works and Services including retention and contingency excluding VAT	£1,806,000	

7. RECOMMENDATIONS

7.1 It is recommended that the Network Rail funding agreement for £1.8 million for the Phase 3 Foundation Scopes of the CCTV Programme is accepted.