

ITEM No ...4.....

REPORT TO: COMMUNITY SAFETY AND PUBLIC PROTECTION COMMITTEE - 30 SEPTEMBER 2019

REPORT ON: PURCHASE OF CCTV RECORDERS FOR CONNECTION TO THE SAFETY AND ALARM RESPONSE CENTRE (SARC) AND PHASE 2 OF THE REPLACEMENT OF PUBLIC SPACE CAMERAS AND NETWORK UPGRADE

REPORT BY: EXECUTIVE DIRECTOR OF CITY DEVELOPMENT

REPORT NO: 275-2019

1 PURPOSE OF REPORT

1.1 This report updates members on the ongoing project to upgrade Dundee's Public Space CCTV system and the Safety and Alarm Response Centre, and seeks approval from Elected Members to purchase Safety and Alarm Response Centre (SARC) equipment and CCTV recorders, and purchase of equipment for phase 2 of the public space camera network.

2 RECOMMENDATIONS

2.1 It is recommended that the Committee:

a approves expenditure of £406,120 which can be contained within the 2019/20 capital budget for:

- (i) the purchase of SARC equipment and CCTV recorders for priority properties
- (ii) phase 2 wireless connections from the Rapier contract
- (iii) phase 2 camera replacements from the Scottish Communications Group contract.

b delegates the Executive Directors of City Development, Neighbourhood Services and Corporate Services to procure within the above capital allowance the following items:

- (i) recorders through Scotland Excel Framework (Security Services and Equipment Contract Ref:08-14) which will connect to the Safety and Alarm Response Centre.
- (ii) fibre lines for the public space network through the Crown Commercial Services (CSS) framework – Gigabit Capable Connectivity DPS contract ref RM6095.

3 FINANCIAL IMPLICATIONS

3.1 The Executive Director of Corporate Services has confirmed that funding of £406,120 is available from the Capital Budget for the purchase of SARC equipment, the purchase and installation of SARC system compatible CCTV recorders for priority/high risk properties and phase 2 of the public space camera replacements and network upgrade. The "smart" technology elements of the CCTV Operational Centres project is eligible for 39.04% ERDF "Smart Cities" funding. Details are available in Appendix 1. This is part of the Scottish Cities Alliance Smart Cities Programme and part of the Council's transformation programme Changing for the Future 2022.

3.2 Annual maintenance for the phase 2 public space 18 wireless links is £7,335 with a small revenue saving transferring from leased fibre to wireless being achieved. This revenue expenditure will be met within the existing City Development Services' public space revenue budget.

4 BACKGROUND

- 4.1 CCTV camera systems installed in Council properties are to assist in the protection and safety of Council properties, tenants, staff and customers. Currently the 11 multi storey housing blocks, Dundee House, Marchbanks Depot, Gellatly Street Car Park, Greenmarket Car Park, Olympia Car Park, Shore Terrace Car Park, Braeview Academy and West Housing Office can be monitored 24/7 from the SARC. The purchase of compatible replacement recorders for CCTV systems at other Council high risk/priority properties including secondary schools and key operational properties, integrating with the SARC security system at West Housing Office, will provide further protection.
- 4.2 Dundee currently has 87 public space cameras, of which 41 are used for traffic management and can be monitored in Dundee House by DCC's Urban Traffic Control (UTC) team during peak times and to control traffic during events and road works. All 87 public space cameras can be monitored 24/7 by Police Scotland camera operators from their West Bell Street control room. Dundee's public space cameras are regarded as an essential policing tool and assist DCC's Urban Traffic Control team to manage traffic when required. DCC funds the public space camera system capital costs, camera replacement, maintenance, repairs and transmission costs. Police Scotland funds the West Bell Street property and 24/7 camera operator costs.
- 4.3 Reference is made to Article III of the Policy & Resources Committee of 13 March 2017 (Report [77-2017](#) refers) in December 2016, 39.04% grant funding for the "Smart" technology project elements have been awarded £470,000 from the "Smart City" 8th City ERDF Programme to part fund an upgrade to the public space system.
- 4.4 Reference is made to Article VII of the Community Safety and Public Protection Committee of 3 June 2019 (Report [61-2019](#) refers) to the acceptance of a tender by Tayside Procurement Consortium for the enhancement and centralisation of Tayside's public space camera system at West Bell Street Police Station.

5 NEXT STEPS

- 5.1 To enable the transmission of CCTV images to Bell Street Police Station it was decided to build a new digital network based on wireless radio technology. Phase 1 of the public space CCTV project has been built using wireless technology. The Council has been using wireless technology for over a decade and has more than 130 buildings connected through wireless connectivity. It is the first choice for data and voice networking for the Council due to the low installation and ongoing revenue costs. It is around 60% cheaper to install wireless compared to fibre and wireless is more than 50% cheaper for ongoing operational and maintenance costs. Another advantage of wireless is the speed of installation, which can typically be up and running in a matter of days. By comparison fibre networks can take several months to plan and build, sometimes requiring road closures and wayleaves. Wireless technology can also be very easily moved to a new location at very low cost if there is any need to move a CCTV camera location.
- 5.2 Rapier Systems were awarded the contract for installation, support and maintenance of the wireless data infrastructure in October 2017, following an OJEU Open Tender joint procurement exercise carried out by Tayside Procurement Consortium (TPC), contract reference TPC/Wireless/17/06. TPC is a shared services initiative for the provision of corporate procurement services amongst Angus, Dundee City and Perth and Kinross Councils in association with the procurement arm of Tayside Contracts.
- 5.3 The new phase 2 wireless equipment is being purchased via this contract and the ongoing support and maintenance of the equipment will be covered until the end of the contract. The revenue costs for the new wireless connections will be funded by City Development and will result in a marginal saving on the previous fibre costs.
- 5.4 Scottish Communications Group were awarded the contract for the design, supply, installation, support and maintenance of Tayside's centralised public space smart city/town management system at West Bell Street, Dundee in October 2018, following an OJEU restricted tender process as part of a joint procurement exercise carried out by TPC, contract reference

TPC/CCTVSYST/17/25. The 22 phase 2 cameras will be purchased via this contract. City Development Services have a revenue budget for the ongoing maintenance of the 87 public space cameras.

- 5.5 The 2nd phase of the public space camera and network upgrade will allow the Council to upgrade a further 22 of the 87 cameras. Police Scotland (Dundee) and DCC Urban Traffic Control (UTC) prioritised the 87 cameras for upgrade, based on replacing cameras which were most used, in high risk areas, and nearing the end their useful life. The option for a phase 3 camera and network upgrade of the remaining 11 lower priority cameras will carried out in the near future.
- 5.6 All 22 phase 2 new cameras (per appendix 2) will be IP (internet protocol) cameras with video analytic capability, to enhance city/town management with the view of achieving the common goal of Smart City/Town aspirations. The smart city cameras will have built in video analytics to alert operators in case of unusual scene activity, e.g. loitering, idle/removed object detection, crowd density estimation, people counting etc. The analytics engine can automatically classify objects as upright people, car, bike or truck. Intelligent tracking controls the pan/tilt/zoom actions of the camera to track objects or individuals live and keep them in view.
- 5.7 The target date for the new system to go live at Police Scotland, West Bell Street and Urban Traffic Control (UTC), floor 5, Dundee House is November 2019. The phase 1 and 2 replacement cameras will be upgraded between November 2019 and March 2020.
- 5.8 Both our SARC CCTV Consultant and SARC system integrator (Scottish Communications Group) are advocating on site storage of video images rather than Cloud storage. Their main reasons are, each site is fully resilient and a single recorder failure would only bring down a single site. The cost of recorders has reduced dramatically in recent years and at the same time the recording capacity of these machines has increased significantly. This makes these products the most operational and financially efficient recording solution currently available within the industry. By comparison Cloud based systems are subject to external cyber-attacks and insider threats.
- 5.9 The project team reviewed the requirement to upgrade CCTV at Bell Street Multi-storey car-park. As a major refurbishment of this site is currently being explored it was considered prudent to consider replacement of CCTV as part of that larger project to minimise cost and avoid abortive works.

6 POLICY IMPLICATIONS

- 6.1 This report has been subject to an assessment of any impacts on Equality and Diversity, Fairness and Poverty, Environment and Corporate Risk. There are no major issues.

7 CONSULTATIONS

- 7.1 The Council Management Team were consulted in the preparation of this report.

7 BACKGROUND PAPERS

- 7.1 None.

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Robin Presswood
Executive Director of City Development

Dundee City Council
Dundee House, Dundee
RP/JA/MS

18 September 2019

PROJECT/ EXPENDITURE	Community Safety/Public Protection - CCTV Project	APPENDIX 1																																										
PROJECT INFORMATION	Tayside Centralised Public Space Camera System and Safety and Alarm Response Centre (SARC) Public space phase 2 camera replacement & property CCTV recorder replacements to provide integration with the SARC																																											
ESTIMATED START DATES EST COMPLETION DATES	October 2019 31 st March 2020																																											
TOTAL COST	<table border="0"> <tr> <td><u>Public Space</u></td> <td></td> <td></td> </tr> <tr> <td>Public space wireless network - Rapier</td> <td></td> <td>55,680.50</td> </tr> <tr> <td>22 replacement public space cameras - Scottish Communications Group</td> <td></td> <td>88,440.00</td> </tr> <tr> <td>Allowance – Public space 4 fibre lines where wireless option not available</td> <td></td> <td>34,000.00</td> </tr> <tr> <td>Allowance – Public space contingency</td> <td></td> <td><u>11,000.00</u></td> </tr> <tr> <td></td> <td>189,120.50</td> <td></td> </tr> <tr> <td><u>Safety and Alarm Response Centre (SARC)</u></td> <td></td> <td></td> </tr> <tr> <td>Allowance – Multi storey recording equipment to integrate with SARC security system</td> <td></td> <td>67,000.00</td> </tr> <tr> <td>Allowance – Replacement recorders/installation to integrate with SARC security system</td> <td></td> <td>110,000.00</td> </tr> <tr> <td>Allowance – Orbility Ltd and Metric Group Ltd – car parking communication equipment</td> <td></td> <td>17,700.00</td> </tr> <tr> <td>Allowance - SARC key store</td> <td></td> <td>4,000.00</td> </tr> <tr> <td>Allowance - SARC – Body worn cameras, radios and other equipment</td> <td></td> <td><u>18,300.00</u></td> </tr> <tr> <td></td> <td></td> <td><u>217,000.00</u></td> </tr> <tr> <td></td> <td>Total</td> <td><u>£406,120.50</u></td> </tr> </table>		<u>Public Space</u>			Public space wireless network - Rapier		55,680.50	22 replacement public space cameras - Scottish Communications Group		88,440.00	Allowance – Public space 4 fibre lines where wireless option not available		34,000.00	Allowance – Public space contingency		<u>11,000.00</u>		189,120.50		<u>Safety and Alarm Response Centre (SARC)</u>			Allowance – Multi storey recording equipment to integrate with SARC security system		67,000.00	Allowance – Replacement recorders/installation to integrate with SARC security system		110,000.00	Allowance – Orbility Ltd and Metric Group Ltd – car parking communication equipment		17,700.00	Allowance - SARC key store		4,000.00	Allowance - SARC – Body worn cameras, radios and other equipment		<u>18,300.00</u>			<u>217,000.00</u>		Total	<u>£406,120.50</u>
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REVENUE IMPLICATIONS	To be contained within public space revenue budget																																											
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RECOMMENDATION	Acceptance of offers.																																											
ALLOWANCES	As above																																											
SUB-CONTRACTORS	None																																											
BACKGROUND PAPERS	None																																											

DUNDEE'S 87 PUBLIC SPACE CAMERAS AT 20190911 Appendix 2

R = Replacement phase 1 - 54 cameras		P = Phase 2 replacement - 22 cameras	
N = Not Dundee camera		11 cameras to be upgraded when funds available	
No.	CAMERA LOCATION	No.	CAMERA LOCATION
1	1 DUDHOPE ROUNDABOUT	47	P8 HORSE WYND
2	R1 DUDHOPE POLEPARK	48	R36 MURRYGATE OPP M & S
3	R2 LADYWELL	49	R37 ARBROATH ROAD / ALBERT STREET
4	P1 VICTORIA RD / MEADOWSIDE	50	R38 ALBERT ST / ARTHURSTONE TCE
5	R3 WELLGATE CENTER FRONT DOORS	51	R39 ALBERT ST / PARK AVE
6	R4 SEAGATE / TRADES LANE	52	R40 STOBSWELL
7	R5 SEAGATE ROUNDABOUT	53	P9 A90 / CLAVERHOUSE
8	P2 MARKETGATE / EAST DOCK STREET	54	R41 A90 / FINTRY DR
9	R6 WARD ROAD / NORTH LINDSAY STREET	55	R42 FINTRY DRIVE / SHOPS
10	R7 SOUTH WARD RD / LIDL	56	R43 FINTRY DR / DOLPHIN PUB
11	R8 WARD ROAD / BARRACK STREET	57	5 BALUNIE AVENUE AT BALLINDEAN RD
12	R9 BANK STREET CAR PARK	58	6 BALUNIE DR / BALLINDEAN RD
13	R10 ALBERT SQUARE	59	7 BALMERINO PLACE
14	R11 MEADOWSIDE / COMMERCIAL	60	8 BALMORAL TCE / SHOPS
15	R12 BOOTS / REFORM STREET	61	9 BALCARRES TCE
16	R13 HIGH STREET / CITY SQUARE	62	R44 PERTH ROAD / SOUTH TAY STREET
17	R14 MURRYGATE / COMMERCIAL STREET	63	P10 UNIVERSITY TOWER
18	R15 SEAGATE COMMERCIAL	64	P11 PERTH ROAD / ROSEANGLE
19	R16 GELLATLY STREET	65	P12 MARKETGATE / GREENMARKET
20	R17 WESTPORT ROUNDABOUT	66	P13 GREENMARKET / SENSATIONS
21	R18 MARKETGATE / NETHERGATE	67	10 GREENMARKET / SEABRAES
22	R19 UNION STREET	68	R45 SOUTH ROAD MULTI
23	R20 NETHERGATE / WHITEHALL STREET	69	P14 ANN ST / NELSON STREET
24	R21 CRICHTON STREET	70	11 CLAYPOTTS / ARBROATH ROAD
25	R22 CAIRD HALL	71	R46 HILLTOWN / KINGHORNE RD
26	R23 MALMAISON HOTEL	72	R47 STRATHMARTINE RD / HARCOURT ST
27	R24 CASTLE STREET	73	P15 MAIN ST / CALDRUM ST
28	R25 KIRKTON / BEAULY AVE	74	P16 CHARLESTON DR / SPEY DR
29	R26 AMBLESIDE TCE / BEAULY CRES	75	R48 VICTORIA ROAD VICTORIA STREET
30	R27 ASDA KIRKTON	76	R49 GREENDYKES
31	R28 FORT STREET (BROUGHTY FERRY)	77	P17 DICKSON AVE / SHOPS
32	R29 BROOK STREET / GREY STREET	78	P18 BURNSIDE ST / GREY LANE
33	R30 LOCHEE HIGH ST / MARSHAL STREET	79	P19 WHORTERBANK MULTI / LOCHEE
34	R31 LOCHEE HIGH ST / WOOLWORTHS	80	P20 BALGOWAN AVE / POLICE STATION
35	P3 HAPPYHILLOCK / LONGCROFT ROAD	81	P21 BALUNIEFIELD PL
36	R32 HAPPYHILLOCK / SHOPS	82	N PERTH feed (not Dundee camera)
37	P4 LINFIELD STREET	83	N PERTH feed (not Dundee camera)
38	R33 ANN STREET / HILLTOWN	84	N PERTH feed (not Dundee camera)
39	R34 HILLTOWN / ALEXANDER	85	N PERTH feed (not Dundee camera)
40	R35 HILLTOWN MULTI	86	N BELL ST POLICE STATION (not DCC camera)
41	2 TURNBERRY AVE / EAST SCOTSCRAIG	87	R50 KINGSWAY
42	P5 CAMPERDOWN ROAD / MCALPINE RD	88	R51 SINDERINS
43	3 MCALPINE / AMERICANMUIR	89	P22 QUEEN ST / BADER COURT
44	P6 SCOTSCRAIG ROAD / ST FERGUS SCH	90	R52 APEX HOTEL
45	4 ARDLER PRIMARY SCHOOL	91	R53 MYERKIRK 1, KINGSWAY
46	P7 WHITFIELD DRIVE / LIBRARY	92	R54 MYERKIRK 2, KINGSWAY