

PFCC Decision Report

Please ensure all sections below are completed

Report reference number: PFCC/044/19
Classification: OFFICIAL
Title of report: Containerised Data Centre
Area of county / stakeholders affected: Countywide
Report by : Patrick Duffy – Interim Head of Estates Date of report: 3 May 2019 Enquiries to: Patrick.Duffy@essex.pnn.police.uk

1. Purpose of the report

This Decision Report seeks approval for investment into a Containerised Data Centre addressing both the immediate and future requirements of the ongoing IT programme and on premises data storage.

2. Recommendations

To proceed with investment of £1,469,000 capital funding for the design, supply and installation of a Containerised Data Centre.

3. Benefits of the proposal

Progressing the containerised Data Centre build will future proof the on premises data storage and network requirements immediately as well as into the future for Essex Police. The build will also enable the completion of our current Infrastructure Modernisation Programme, enabling the continued on-going technical equipment refresh and has growth capacity for new IT capability that cannot be externally hosted.

The new facility will also greatly assist with the Estates Strategy plans for the Police Headquarters refurbishment and site rationalisation due to all key IT infrastructure being hosted within a centralised location freeing up old IT equipment rooms within other buildings.

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The new Data Centre will reduce an ongoing red risk on the FIM Programme risk register for delays for this new facility.

The Data Centre will complete the resilience for IT infrastructure across the Essex and Kent Police IT network for both data storage and application resilience.

4. Background and proposal

The Fast Track Infrastructure Modernisation programme has a significant requirement for improving IT systems and resilience. The Data Centre is a key enabler and facilitates the programme. The programme supports the removal of IT hardware and infrastructure from other areas of the estate supporting the future disposal and planned refurbishment projects.

Following recommendations from the Methods Advisory IT Landscape review in late 2014, high risk areas were identified such as data storage, network performance and the stability of key systems, which have been worked on, in preparation for the new high performing technologies that will replace this legacy infrastructure.

We are currently in a period of swift and visible progress, as within the next 12 months we are proposing to finalise resilient scalable in-house storage servers, a flexible wide area network that enables the force to meet new demands and the innovation of new emerging data technology, a move to cloud based Microsoft Office 365 including email and SharePoint as well as new Windows 10 computer build. These projects together will provide the long-awaited stable, low maintenance infrastructure platform that is the critical foundation to implement the enabling IT solutions that will transform Operational Policing within Kent Police and Essex Police over the next five years.

This business case supports the following IT investment.

- a) Server Replacement Programme
- b) Increased security to protect against cyber-attack and misuse
- c) Tiered storage growth
- d) Network Replacement Programme (including Firewall replacement).
- e) End User Device Replacement Programme (also supports increased Agile Working).

Consolidation of the network and server infrastructure within a new data centre facility will also compliment the national 'Cloud First' strategy.

The proposal is to install a bespoke containerised Data Centre which will be located within the existing Essex Police Estate.

The new Data Centre will provide a sufficient number of IT equipment racks, to host the required network, application and data storage for the force anticipated over the short to medium term.

5. Alternative options considered and rejected

Do nothing – Doing nothing is not an option, as there is insufficient capacity within the existing infrastructure to support the immediate and future requirements of the force

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Construction of a data centre within the existing estate – *Construction of a Data Centre within the existing estate would take up office space required for other needs as well as being cost prohibitive with an estimated cost of £3,700,000*

Offsite data storage – *Although more and more data storage solutions have cloud options available there are a number of applications and critical data which would always require to be stored on Essex Police premises, as well as the significant ongoing revenue costs of offsite data storage. Where possible and financially beneficial offsite data storage will be utilised but there is still a significant requirement for network and on premises storage capacity.*

6. Police and Crime Plan

The investment fits with the Commissioner's Police and Crime Plan objective on Finance and Resources, with particular reference to *"Rationalise the police estate, making it fit for purpose for 21st century policing and drive out savings to reinvest back into local policing"*.

The investment fits with the Commissioner's Estate Strategy with particular reference to *"Strategic Management of our Estate"* and *"Our Future Direction"*

The investment fits with the Commissioner's Police and Crime Plan objective on effective use of technology with particular reference to *"Deliver mobile policing to all frontline officers, strengthen our ability to share data and intelligence across agencies to prevent crime, support victims and target offenders and improve police contact and engagement with the public through digital channels."*

7. Police operational implications

There are no direct operational policing implications of the proposal, although the Data Centre is a significant enabler for many of the national, regional and collaborative programmes of work within both the IT and Mobile First programmes of work.

8. Financial implications

The Containerised Data Centre requires Capital funding of £1,469,000 as well as an ongoing requirement for £36,000 revenue funding per annum for maintenance of the data centre and its associated infrastructure.

Funding has been identified within the capital programme as well as a contribution of £373,000 which had previously been allocated from the Fast-track Infrastructure Modernisation Phase 2.

The total additional capital required is £1,096,000 to be used in conjunction with the £373,000 which was previously allocated to the FIM Phase 2 project.

9. Legal implications

There are no legal implications arising from this decision report.

10. Staffing implications

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There are no staffing or resource implications arising from this decision report.

11. Equality and Diversity implications

It is not considered that an Equality Impact Assessment is required for the capital investment associated with this decision report.

12. Risks

If the proposal is not undertaken there will be risks in delaying our IT FastTrack Infrastructure Modernisation programme as well as delays in finding alternative facilities to facilitate the disposal of property assets.

13. Governance Boards

- Delivery through Critical Infrastructure Gold Group
- COG – 27th March 2019
- Strategic Board – 14th March 2019 ✓

14. Background papers

Stage 1 Capital Bid



Stage 1 - Capital Bid.pdf

Stage 2 Capital Bid



Stage 2 - Capital Bid.pdf

Estate Strategy

<http://www.essex.pfcc.police.uk/finance-reporting/publications/police-estates-strategy/>

Report Approval

The report will be signed off by the OPFCC Chief Executive and Treasurer prior to review and sign off by the PFCC / DPFCC.

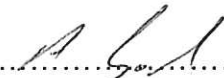
Chief Executive / M.O.

Sign: 

Print: P. Beant-Drewson

Date: 24 MAY 2019

Chief Finance Officer / Treasurer

Sign: 

Print: ASBEN BOOEN

Date: 24/05/19

Publication

Is the report for publication? YES
NO

If 'NO', please give reasons for non-publication (Where relevant, cite the security classification of the document(s). State 'None' if applicable)

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If the report is not for publication, the Chief Executive will decide if and how the public can be informed of the decision.

Redaction

If the report is for publication, is redaction required:

1. Of Decision Sheet? YES NO 2. Of Appendix? YES NO

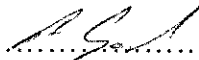
If 'YES', please provide details of required redaction:

..... STAGE 1 + 2 BUSINESS CASE NOT FOR PUBLICATION
..... COMMERCIAL SENSITIVE

Date redaction carried out:

Treasurer / Chief Executive Sign Off – for Redactions only

If redaction is required, the Treasurer or Chief Executive is to sign off that redaction has been completed.

Sign: 

Print: ABRAHAM

Chief Executive/Treasurer

Decision and Final Sign Off

I agree the recommendations to this report:

Sign: 

Print: 

PFCC/Deputy PFCC

Date signed: 

I do not agree the recommendations to this report because:

.....
.....
.....

Sign:

Print:

PFCC/Deputy PFCC

Date signed: