

Digital Forensics



E-Crime UNIT – KINGSTON POLICE

Intro

D/Cst. John Theriault

EPS Technological Crimes Unit (TCU) 2018 - 2022

- *Canadian Police College (CMPFOR , IEAC, NITC, MDAA) 9 weeks*
- *X-Ways, Berla iVe, Understudy (peer review) completed*

Kingston Police, early 2022

- *E-Crimes March 2023 (took over from Kevin Williams)*



E-Crimes Unit

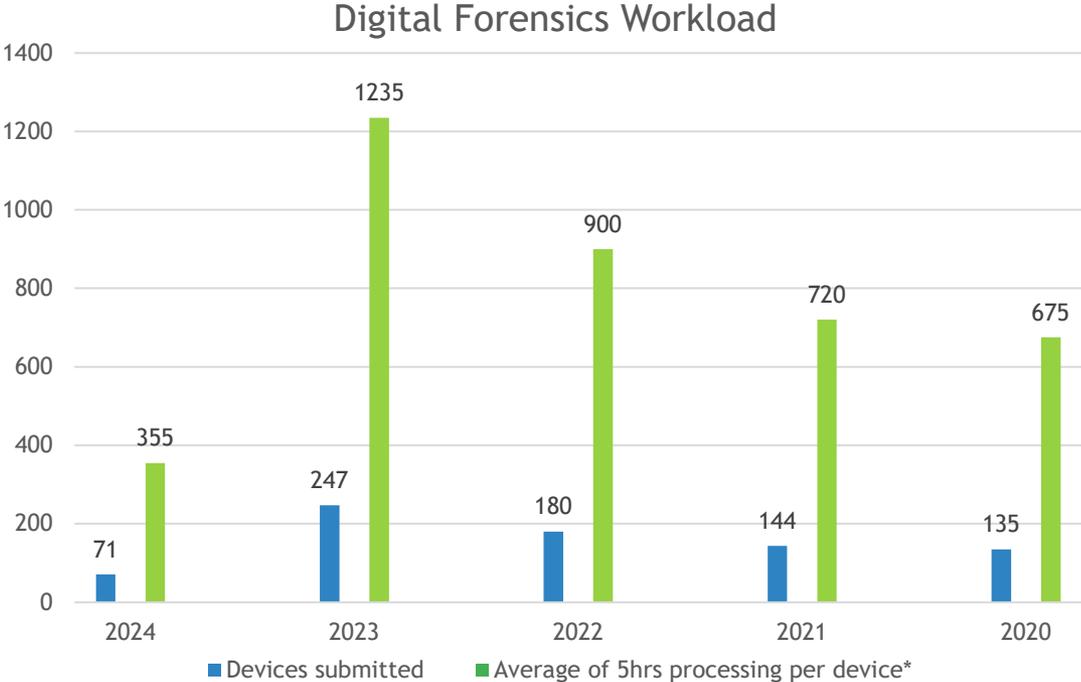
- *Primarily mobile devices (repair, extraction, analysis, reporting)*
- *Vehicle (infotainment)*
- *Video retrieval and processing*
- *Assist with Warrants (writing and scenes)*
- *General Tech assistance to entire service*



What's New since 2023

- *Berla iVe*
- *Cellebrite Cloud Analyzer*
- *DVR Examiner*
- *Cellebrite Premium ++*





*Can grossly exceed this based on the file, device type and data extracted.



Cost.....of doing business

Big two companys, for extractions

Cellebrite – Premium, 30k USD annual

Magnet – GrayKey, 33k USD annual

Both are a minimum requirement for this line of work

All tools have moved to subscription based

Average of 20% increase in costing yearly “inflation”

Decoding and Analysis tools exceeds 40k USD annual

Yearly training to remain up to date, averages 10k a year

Hardware upgrades can be anywhere from 5-10k a year



Effect of unit

- *Recent stats indicate that 90% of crime has a technological element <https://blogs.opentext.com/the-growing-need-for-digital-forensic-investigators/>*
- *Increases solvability and closure of files*
- *Speed of investigations, direct source of evidence*
- *Assists with prosecution (deals) and court process in general*



Future needs/concerns

- *Unit needs to grow - same staffing level since origin, 2008*
- *Workload increases, slows information sharing*
- *Data retention, average phone storage 64GB, up to 1TB*
- *Specialized training, expensive (around 100k) and time consuming (Average 1 year to complete minimum training)*
- *84 day disclosure rule*



KINGSTON POLICE E-CRIMES UNIT

Contact:

JTherault @kpf.ca