

Distant traces and their use in crime scene investigation

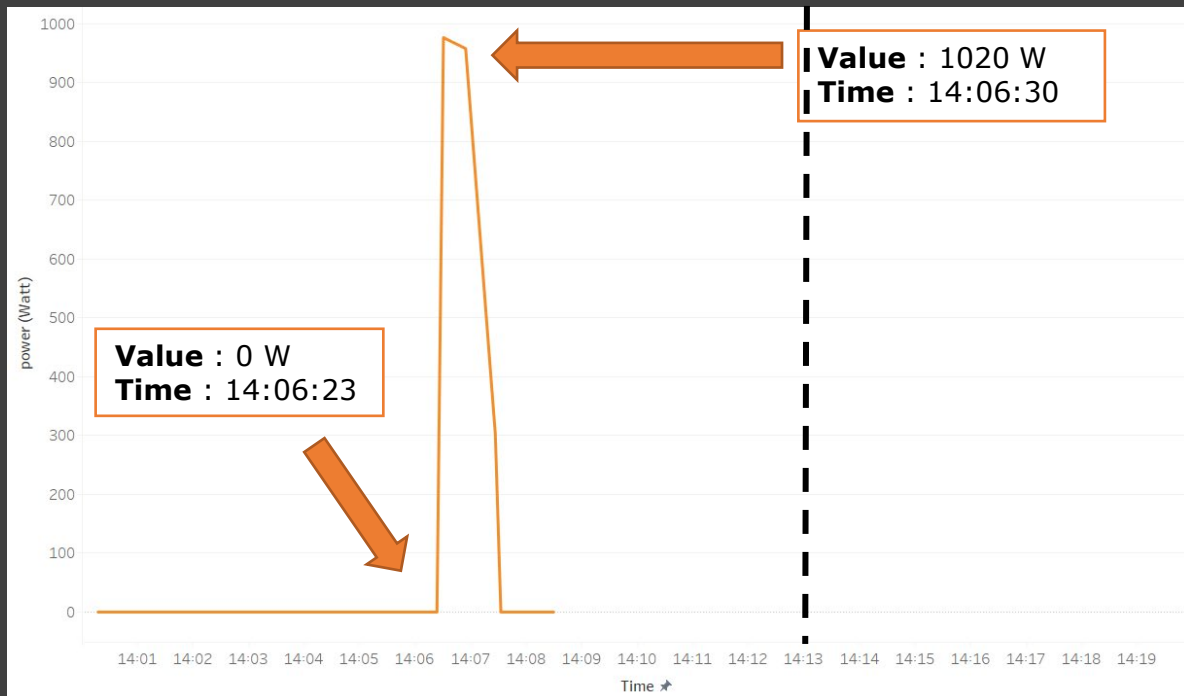
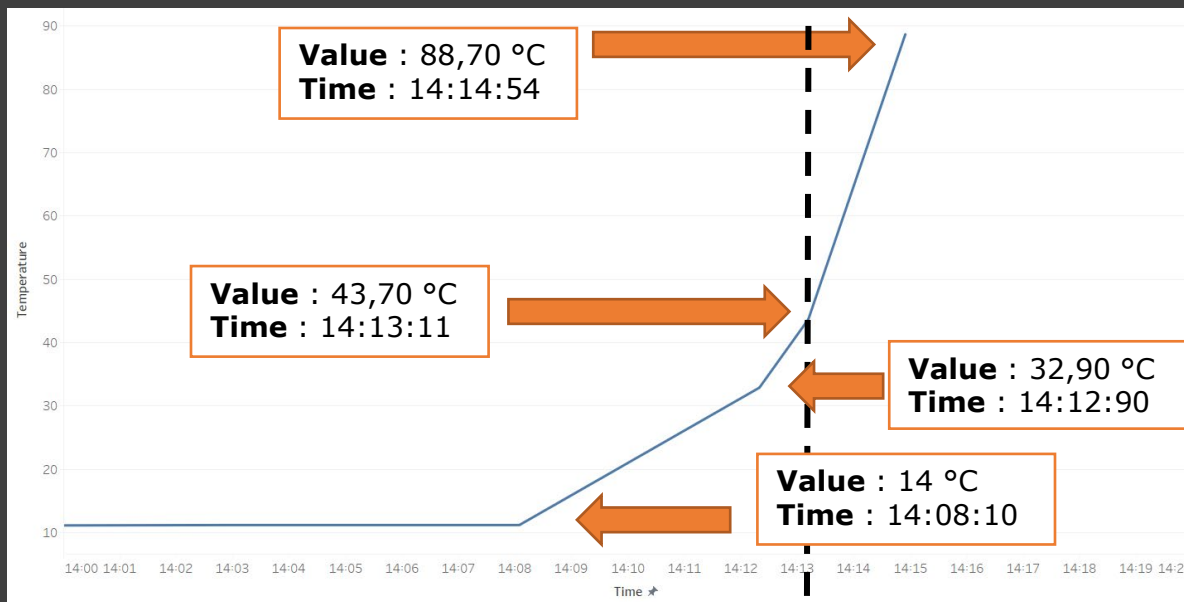
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Let's start with an example

Origin/Cause of the fire?



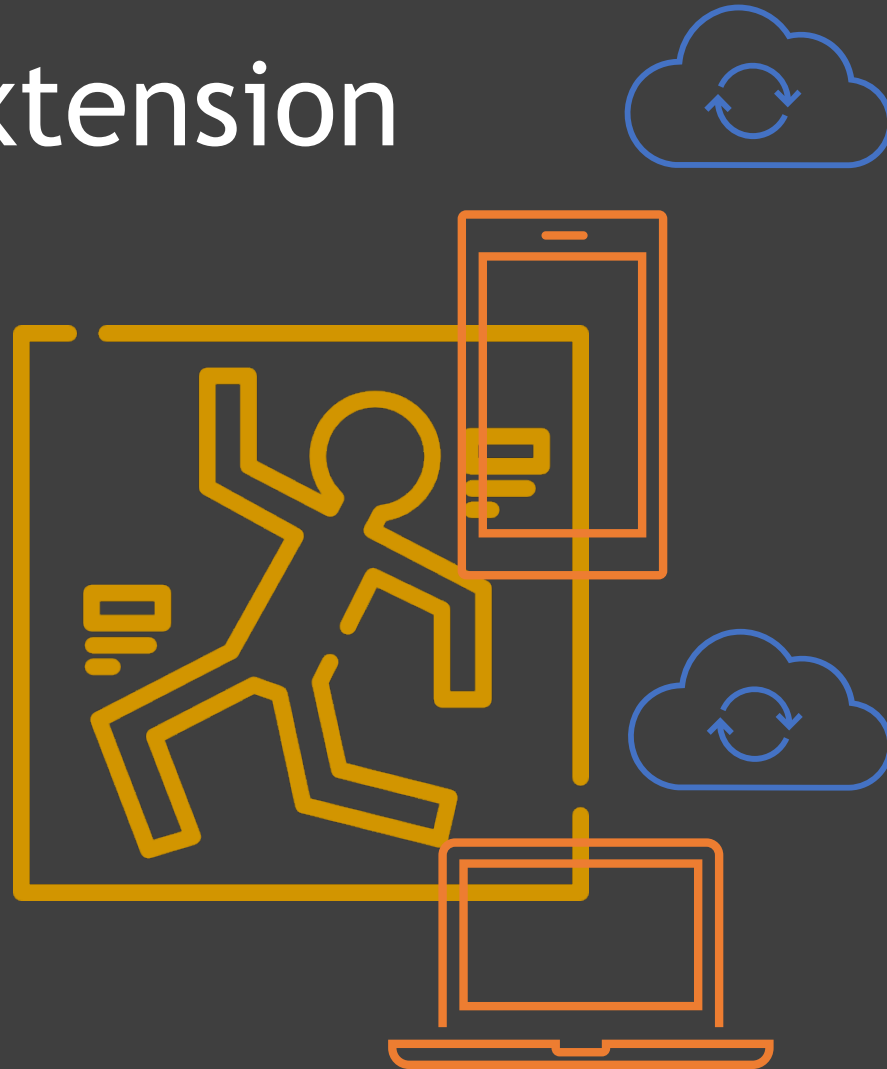
Chronology of the fire?



Chronology of the fire

Origin/Cause of the fire

Crime scene extension





Smart devices IoT (Internet of Things)

Home automation, wearable
(SmartWatch), industrial use



Cloud storage

OneDrive, Dropbox, iCloud,
Google Drive, ...

Social media & communications app

WhatsApp, Facebook, Snapchat,
TikTok, Instagram, YouTube,
Twitter, Telegram, Signal, Google,
iCloud, ...



Legal aspects



- For research purposes at the time
- 30 days
- Automatic or manual requests (email, mail)

Law enforcement regulations



- Country specific requests
- International Mutual Legal Assistance
- Variable delay
- Automatic or manual requests (email, mail)

Need to know identifying information
Identifier, Brand/model, Serial Number, ...

Limitations



Requests has to be done quickly

Authorisation of the person to access his/her account

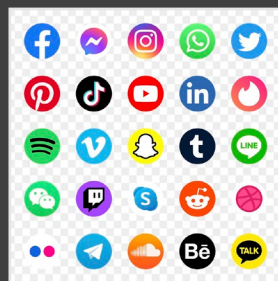


Regulations depends on countries

Multiple format of file



To continue



Social media

Smart devices / IoT



Law enforcement vs
personal data

- Legal aspects
- Content

Why digital forensics is so interesting ?



Why digital forensics is so interesting ?



CRIME SCENE DO NOT CROSS





Jubillar case: American justice ordered Google to provide GPS data from Cédric's phone

January 30, 2022 by [editor](#)

<https://www.diglogs.com/france/jubillar-case-american-justice-ordered-google-to-provide-gps-data-from-cedrics-phone/>, last accessed on March 16 2022

Thanks for FAU for the scholarship



Questions?
Feedback?



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