CREDENCE SECURITY
DIGITAL FORENSICS

FORENSIC FUNDAMENTALS
OCTOBER WEBINAR

FASTER, COLLABORATIVE &
HOLLISTIC LAB INVESTIGATIONS

ACCESSDATA®

YOUR REGIONAL VALUE-ADD DISTRIBUTOR

ABOUT US

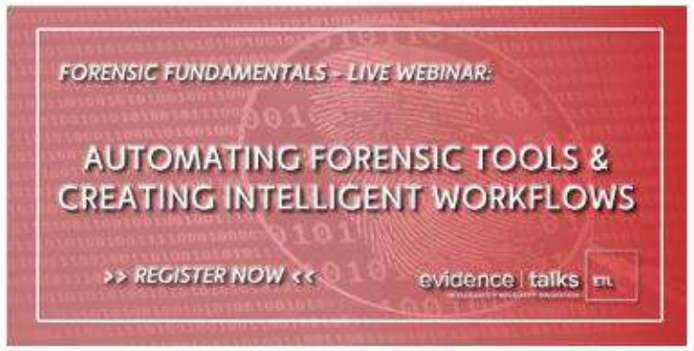
CREDENCE SECURITY

Established in 1999, Credence Security, a PAN-EMEA specialty distributor, is a leader in cyber security, forensics, governance, risk and compliance. With headquarters in Dubai and regional offices in Johannesburg, Nairobi and London, we are a pure-play provider of security and forensics solutions, to both public and private sector enterprises across Europe, Middle East, Africa and India, through a select network of specialist resellers.

Unlike most other distributors, we take a consultative 'value-add' solution approach – we collaborate with our partners and their customers to understand their needs, both from a technology and business perspective, and then work very closely with our partners to deliver tailor made solutions. As such, our clients rely on us and trust us to deliver best in class IT security solutions that will protect their organizations from some of the most severe and malicious attacks.

With the growing sophistication of threats today, we recognize that leading technologies alone cannot safeguard an organization – organizations need to ensure that they assess risk, comply with latest security regulations and foster a 'security-first' culture.

FORENSIC FUNDAMENTALS
COMMUNITY



Automating Forensic Tools & Creating Intelligent Workflows with High-Speed Acquisition

What is digital forensics triage? Forensic triage is the practice of searching an exhibit in the field or lab to determine its priority in an investigation. It can be applied to narrow down the scope...

APFS at a Glance

In my previous posts, I raised some of the issues of APFS and the digital forensic challenges posed by this new file system. However, for those of you who aren't too familiar with Apple's new...

Recent Posts

- Automating Forensic Tools & Creating Intelligent Workflows with High-Speed Acquisition
- APFS at a Glance
- Mobile Forensics – Do these challenges sound familiar?
- Audio Enhancements & Investigations
- Video Investigations – From Capture to Court

Categories

- Forensic Fundamentals
- The Discussion

http://forensics.credencesecurity.com

CREDENCE SECURITY

PRESENTER

Harsh Behl

Forensic Consultant

GCIH, GCFE, EnCE, ACE, CCE, NUIX Investigation Specialist

e: harsh.behl@credencesecurity.com

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BACKGROUND

- Digital Forensic Analyst
- Technical Engineer
- Electronics & Communication Engineering Degree

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PRESENTER

Keith Lockhart

Vice President - Strategic Programs

ACCESSDATA

AccessData Group has pioneered digital forensics and litigation support for more than thirty years. Over that time, the company has grown to provide both stand-alone and enterprise-class solutions that can synergistically work together to enable both criminal and civil investigations, including digital forensics, incident response, legal review, compliance, auditing and information assurance.

BACKGROUND

- Bachelor of Arts in Criminology
- 15+ years experience as AccessData VP for Global Training
- 4+ years experience as Computer Crime Specialist
- 4+ years experience as Police Officer
- 15+ years member of International Association of Computer Investigative Specialists Board of Directors

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TODAYS
AGENDA

- ✓ What is the problem at hand ?
- ✓ How can we solve that problem with software ?
- ✓ Hardware Collaboration !
- ✓ Human Collaboration !
- ✓ Let us show you… Demonstration
- ✓ Discussion …

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THE ACCESSDATA

APPROACH

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DATA PROCESSING

Leaders benefiting from Distributed Data Processing...

elastic

Microsoft Azure

AMAZON EC2 amazon web services

Google App Engine

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Distributed data processing is a computer-networking method in which multiple computers across different locations share computer-processing capability.

This is in contrast to a single, centralized server managing and providing processing capability to all connected systems.

Specific jobs are performed by specialized computers.

DDP provides greater scalability.

When you divide a computing function among several machines, you can fine tune each computer to suit the needs of each task.

- ✓ Improved Performance
- ✓ Reduced Processing Time
- ✓ Flexible
- ✓ Reliable
- ✓ Lower Cost
- ✓ Local Data Access

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DISTRIBUTED

DATA PROCESSING

Why Distributed Infrastructure is important... What the industry is saying

WIKIPEDIA
The Free Encyclopedia

There are many cases… use of a distributed system is beneficial for practical reasons. For example, it may **be more cost-efficient** to obtain the **desired level of performance** by using a cluster of several low-end computers, in comparison with a single high-end computer. A distributed system can provide **more reliability** than a non-distributed system, as there is **no single point of failure.** Moreover, a distributed system may be easier to expand and manage than a monolithic uniprocessor system. >>>

UNIVERSITY OF CAMBRIDGE
Computer Laboratory

Popular solution for big data processing to **scale and build** on distribution and **combine theoretically unlimited number of machines** in a single distributed storage. Scale out: add more nodes to a system >>>

Techno Security & Digital Forensics Conference

Distributed computing is particularly important for large cases that involve analyzing a group of hard drives. The database manages the project, automatically identifies areas of particularly keen interest (e-mail, encrypted files, items located in the My Documents directory), **and assigns the tasks based on priority**. Distributed data processing architectures **provide forensic labs with the only realistic option of handling large forensic and e-discovery cases** by harnessing the CPU power needed to deal with large data sets. >>>

ORACLE

Distributed processing environment provides the following benefits… **exploits the multitasking and shared-memory facilities** of its underlying operating system. As a result, it delivers the highest possible degree of concurrency, data integrity, and performance to its client applications. Oracle can be **scaled as your system grows**. You can add multiple servers to distribute the database processing load throughout the network (horizontally scaled), or you can move Oracle to a minicomputer or mainframe, to take advantage of a larger system's performance (vertically scaled). In either case, all data and applications are maintained with little or no modification, since Oracle is portable between systems. >>>

SAP

Distributed data processing has the following advantages:

- **Improved performance**
- **Greater security**
- It promotes decentralized company policies, which provides sites with a **high degree of autonomy.** This allows whole areas of responsibility to be assigned to those organizational units at which information - on customers, vendors or goods movements - is usually gathered. >>>

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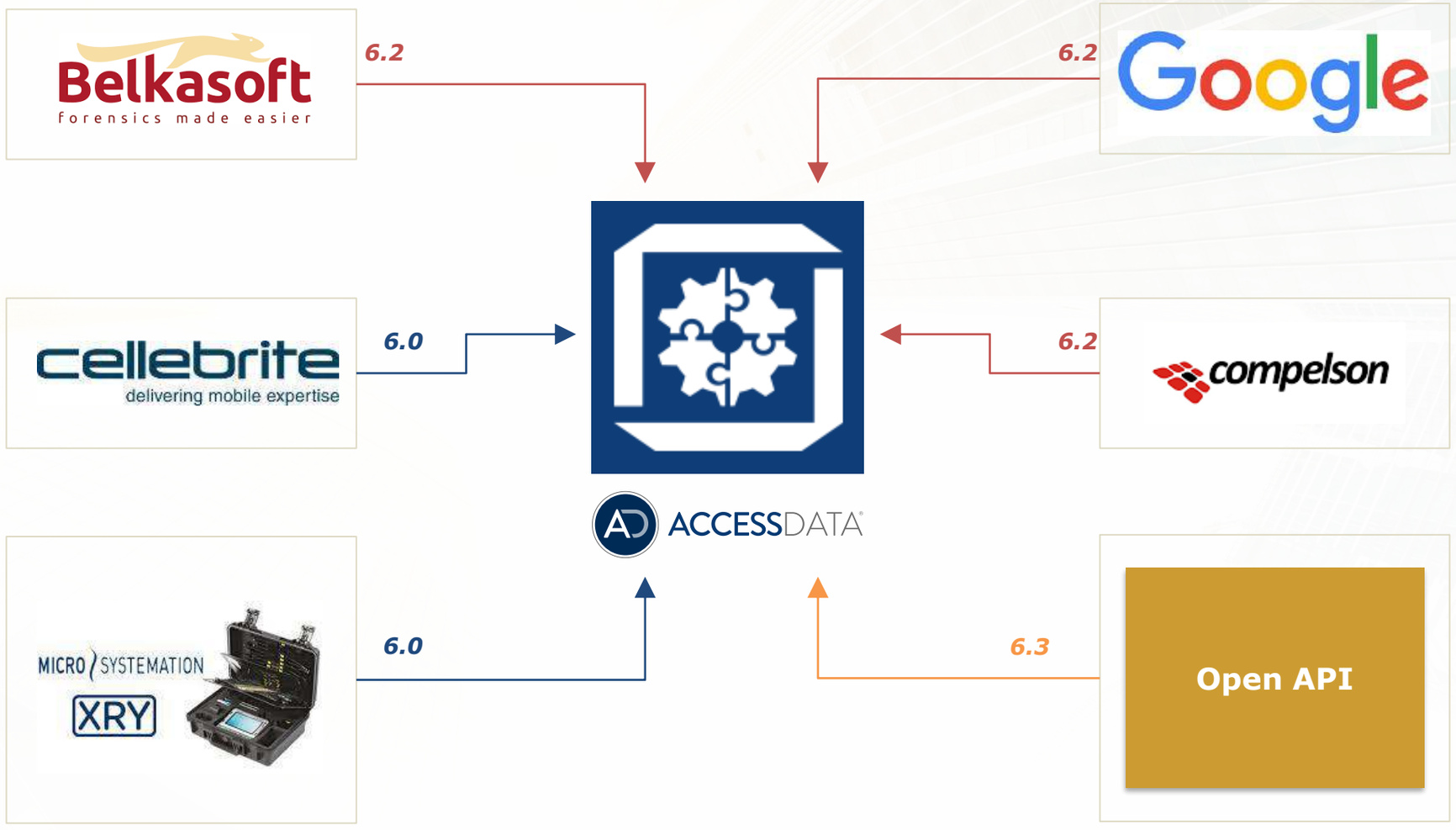
ECO-SYSTEM

ENHANCEMENTS

The need for integration in the lab market has become increasingly apparent given the diverse datatypes that must now be supported. AccessData is responding with an open eco-system approach that will allow anyone to integrate seamlessly with AD LAB.



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ECO-SYSTEM

DETAIL

Belkasoft

forensics made easier

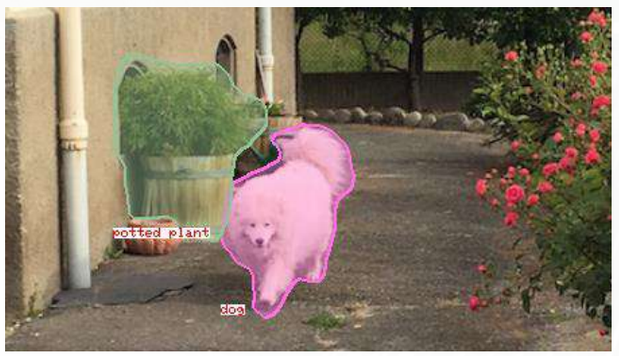
- ✓ Best chat parsing on the market
- ✓ Over 250 parsers
- ✓ Rapid data normalization
- ✓ Parsers include:
  - 155 IM formats
  - 19 Browser formats
  - 13 mail formats
  - 6 CloudFile formats
  - 4 P2P formats
  - 28 MobileApps

compelson

- ✓ Complete phone support (ability to analyze almost every phone on the market)
- ✓ Extensive phone app parsing
- ✓ Phone Support includes:
  - IOS
  - Android
  - Blackberry
  - Windows
  - Motorola
  - Huawei
  - HTC
  - Symbian
  - Nokia
  - Acer
  - Lenovo
  - Samsung
  - Sony
  - LG

Google

- ✓ Image recognition
- ✓ Object identification
- ✓ Picture category tagging



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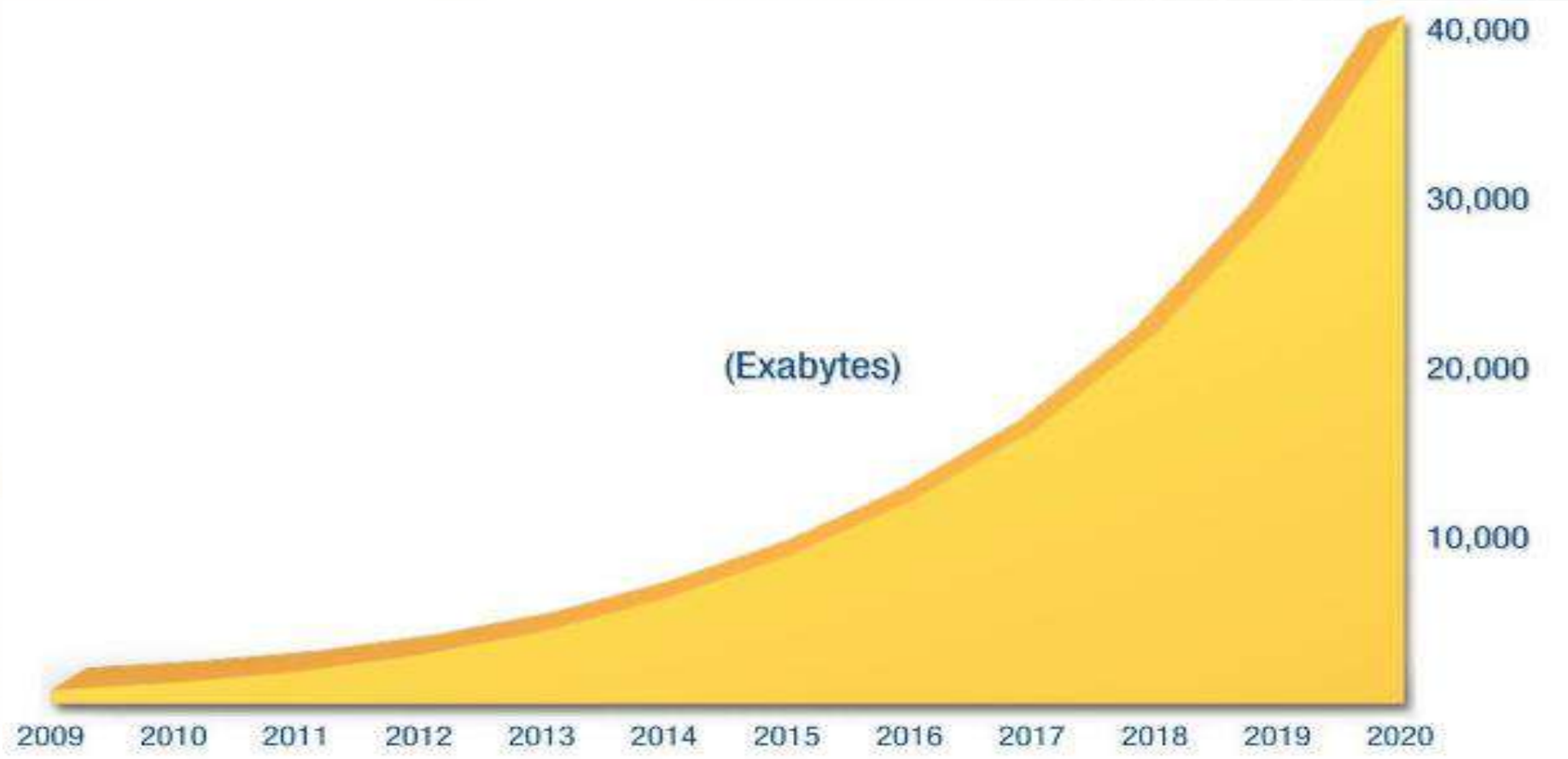
FASTER
PROCESSING



More machines are better than one!!

- ✓ FTK (three workers)
- ✓ AccessData Lab (managed work clusters)

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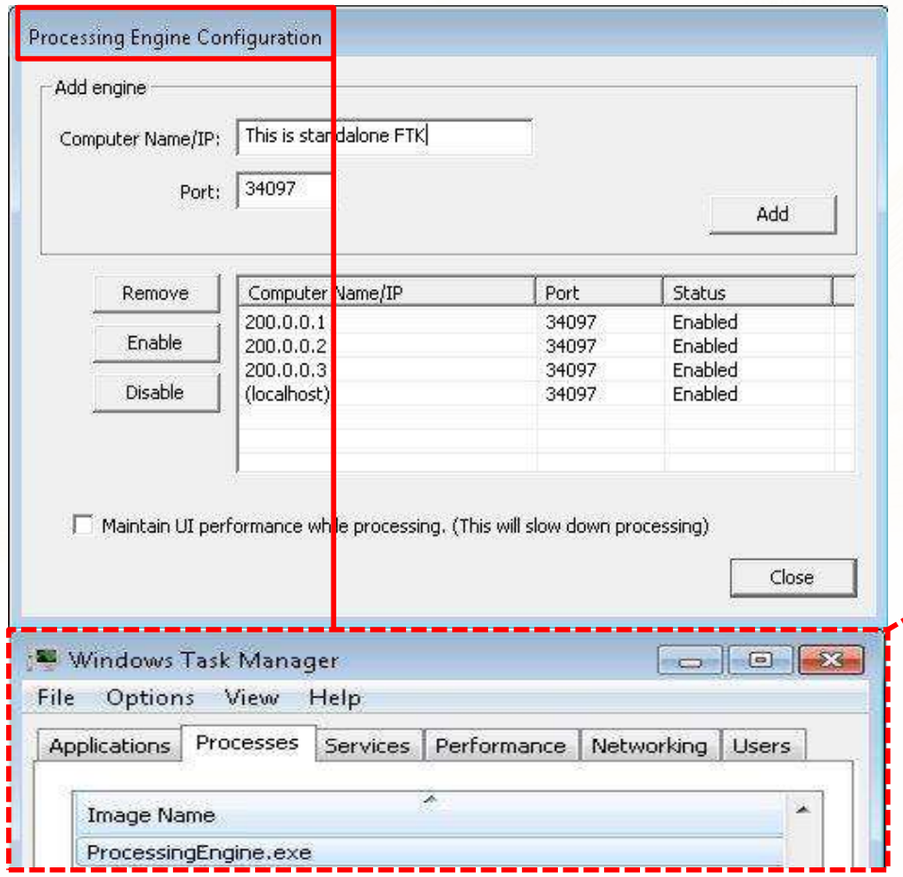
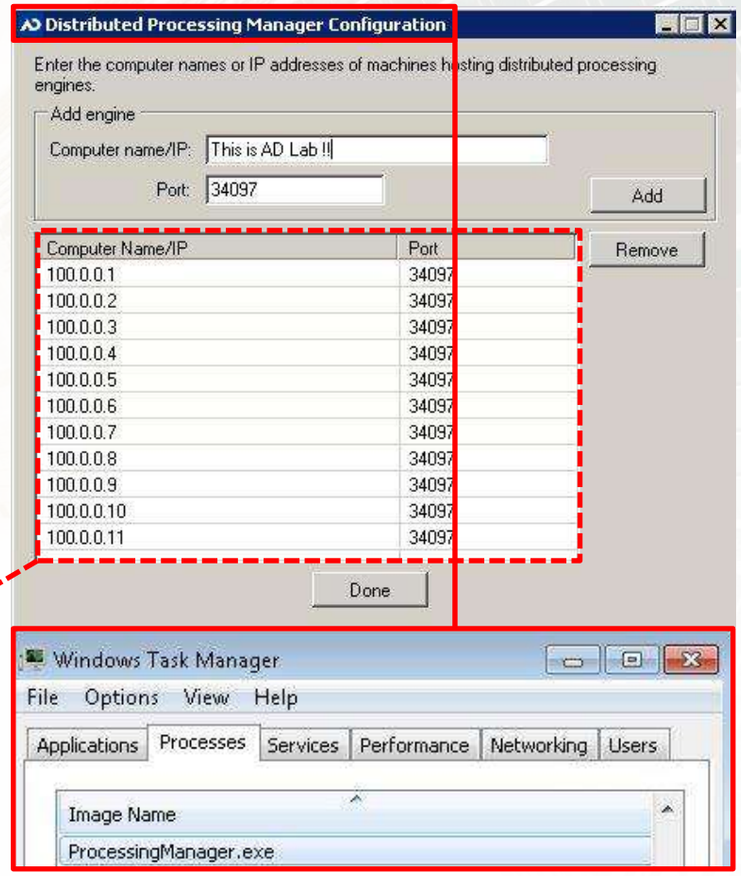
PROCESSING





Distributed case processing:

- ✓ FTK (Forensic Toolkit) (three workers)
- ✓ AccessData Lab (managed work clusters)

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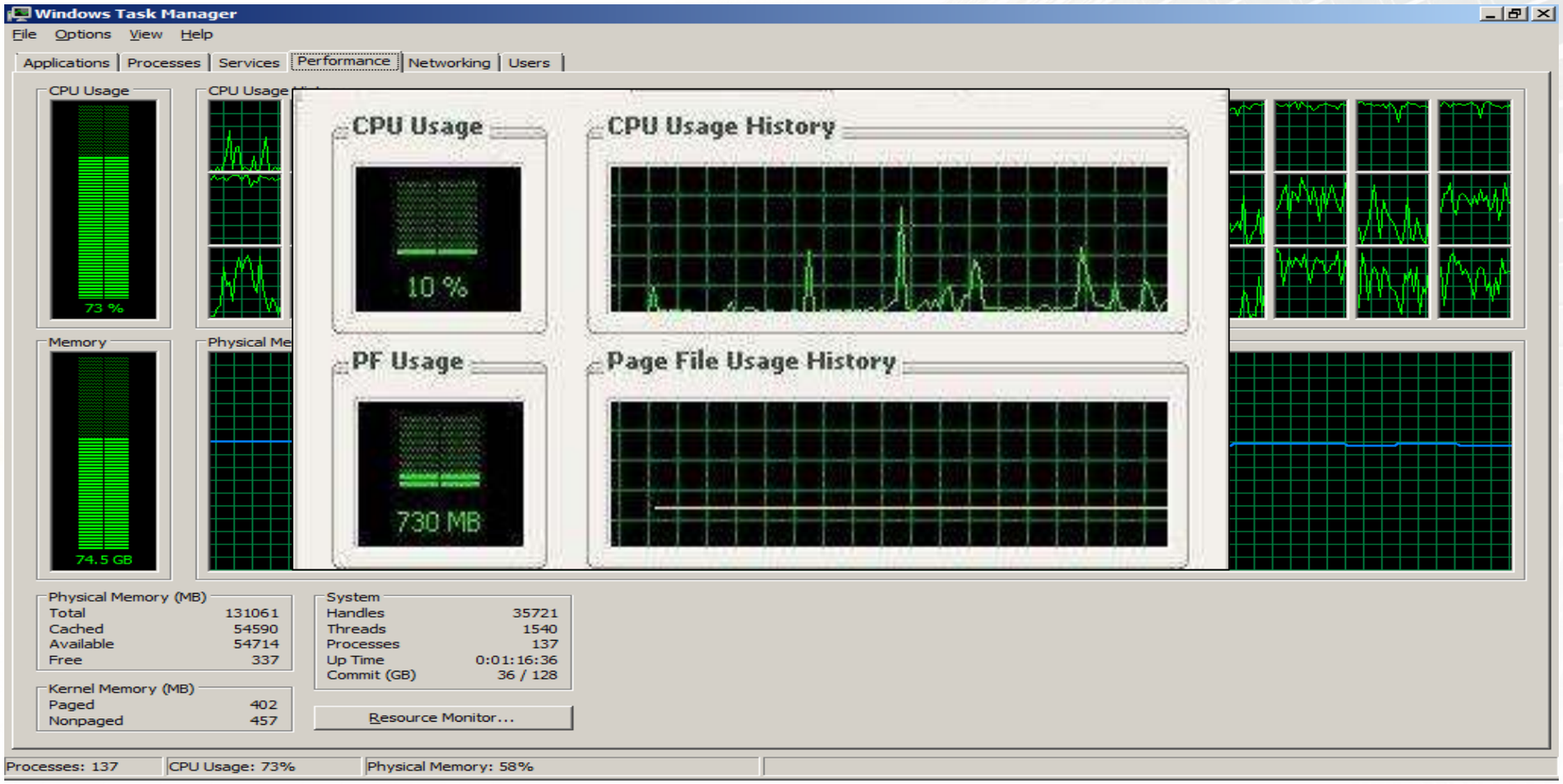
PROCESSING



Size Matters !!

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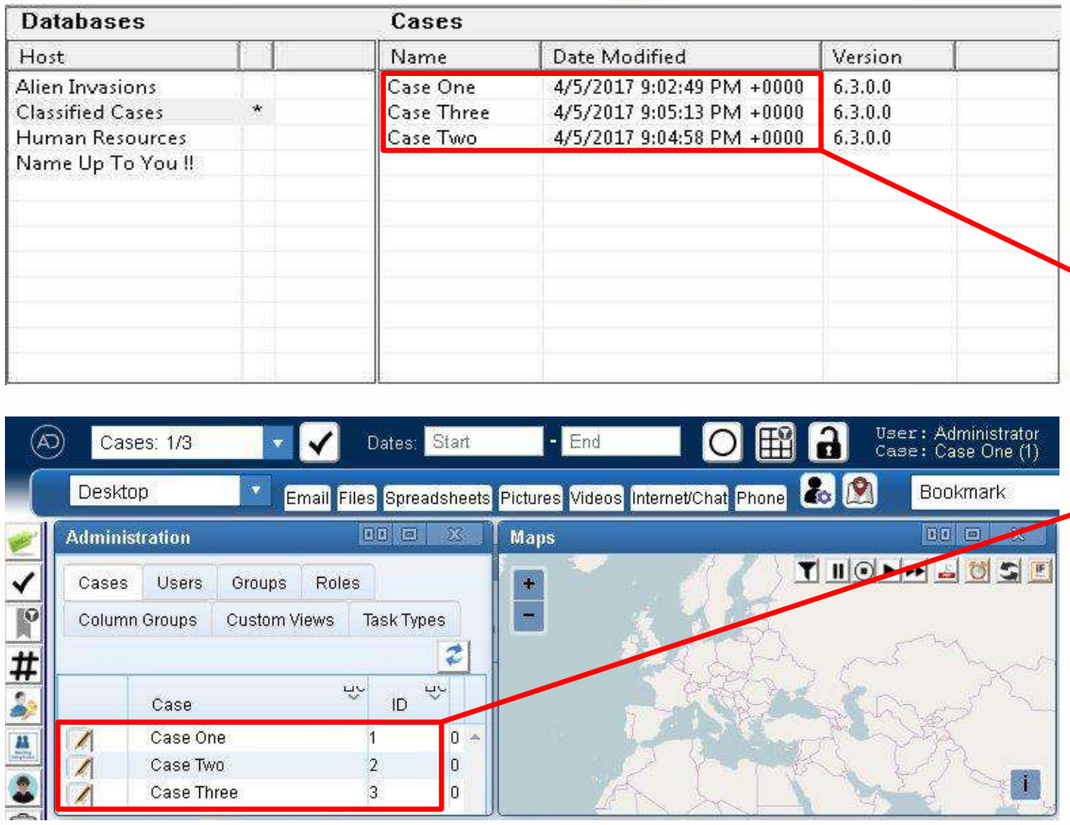
DATA IN THE RIGHT PLACE



Lab provides multiple windows to case data:

- ✓ Heavy client examiner (forensic examiner)
- ✓ HTML-based web review (case investigators)

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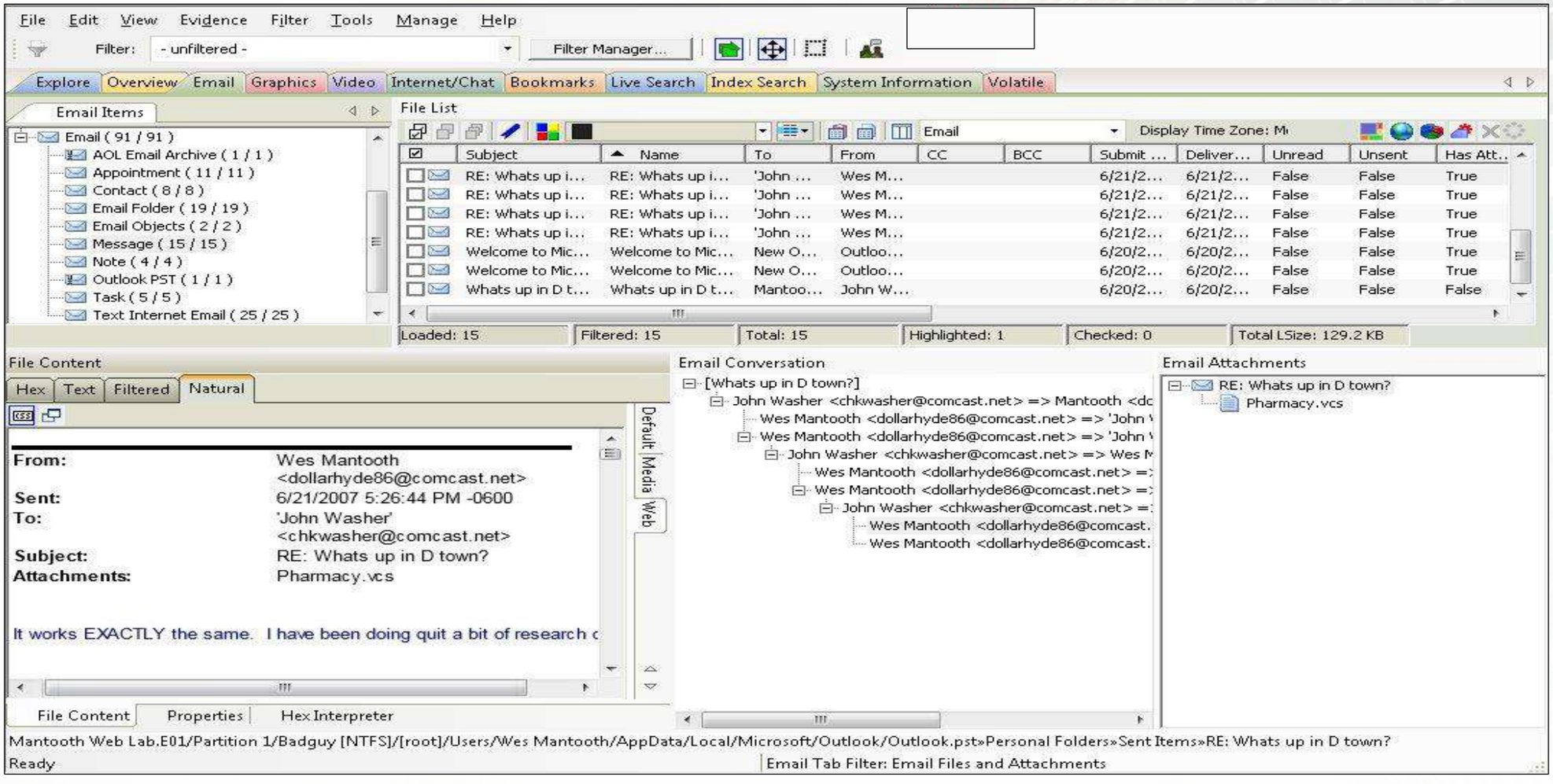
THE RIGHT TOOL FOR THE JOB

EXAMINER



Heavy Client Examiner:

- ✓ Email threading
- ✓ Memory Analysis
- ✓ Robust file identification
- ✓ Robust data filtering
- ✓ Built-in decryption
- ✓ Full indexed search

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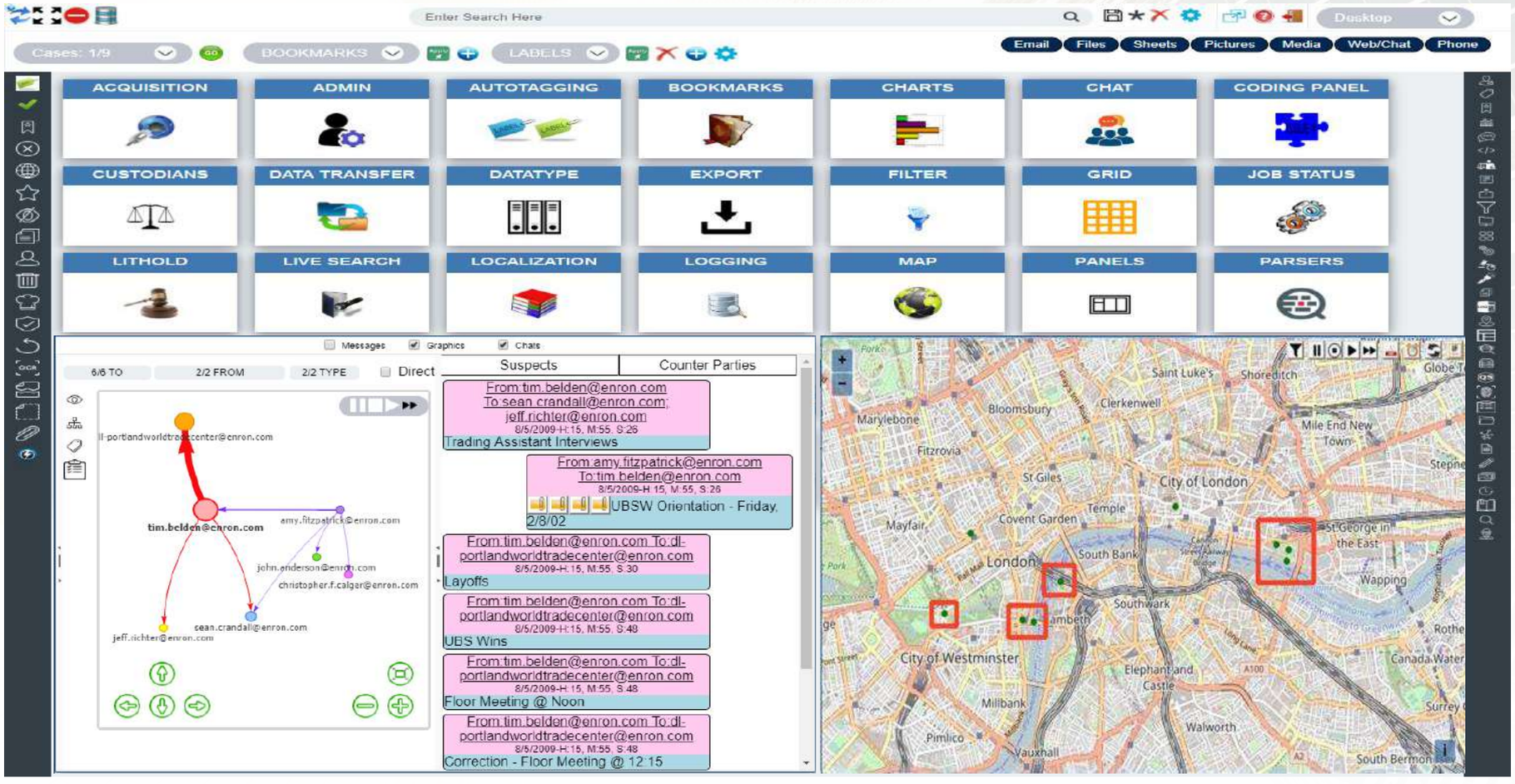
THE RIGHT TOOL FOR THE JOB

REVIEWER



Web Reviewer:

- ✓ Geo-plotting
- ✓ Timeline plotting
- ✓ Cross-case analysis
- ✓ Target profile analytics
- ✓ Data permissions
- ✓ Reviewer tasking

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THE RIGHT TOOL FOR THE JOB

REVIEWER

- ✓ Massive scale for collaboration
- ✓ Custom data views to focus review work
- ✓ Custom interface to match user skills
- ✓ Alternate languages available …
- ✓ Case management through review …
- ✓ User Tasking
- ✓ User Communications
- ✓ Data Analytics
- ✓ Working together with your technology

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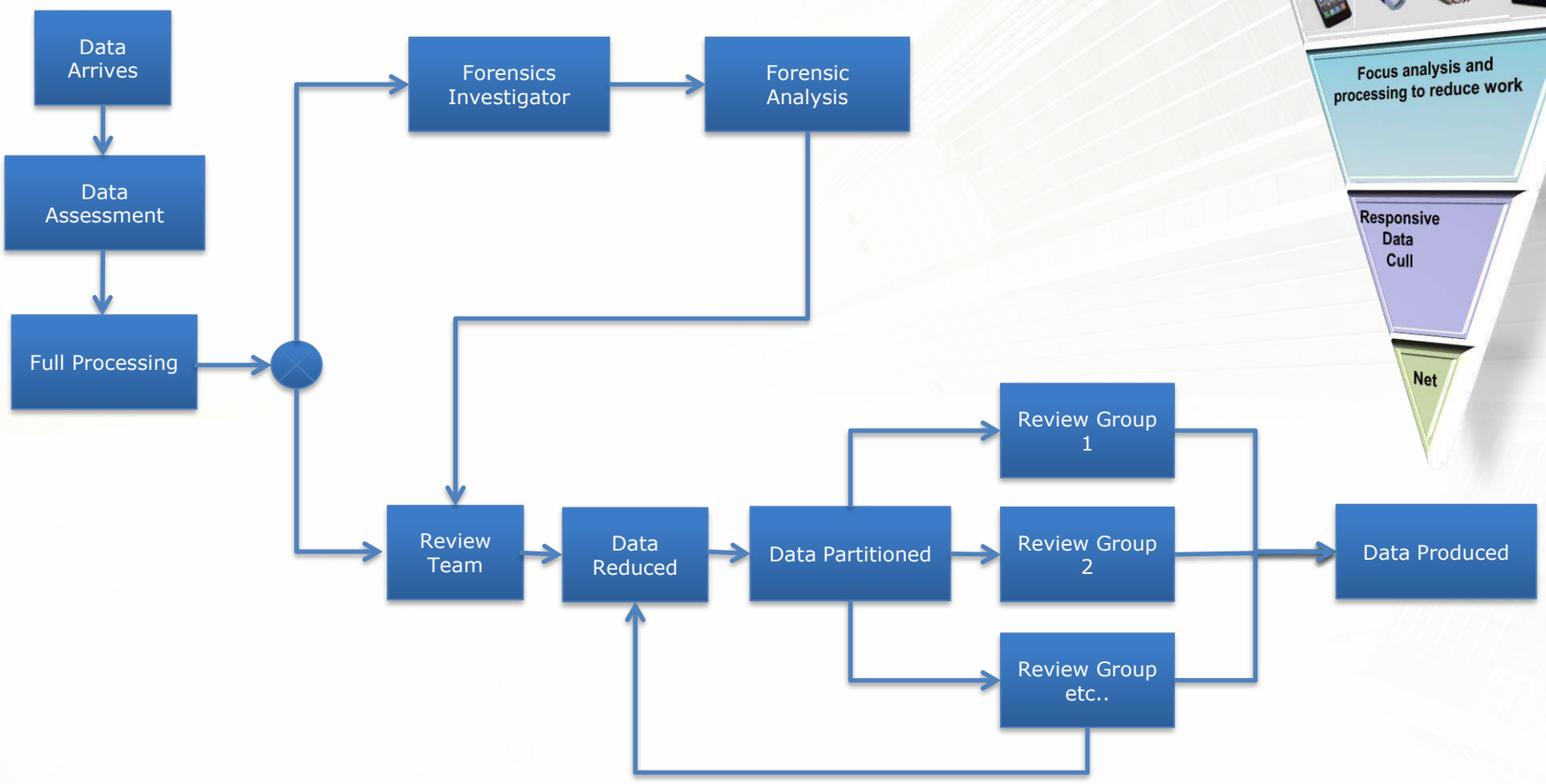
LIFECYCLE OF COLLABORATION



Potential Use Cases:

- ✓ Pre-trial review
- ✓ Agency collaboration
- ✓ Workload Distribution
- ✓ Data Processing Reduction

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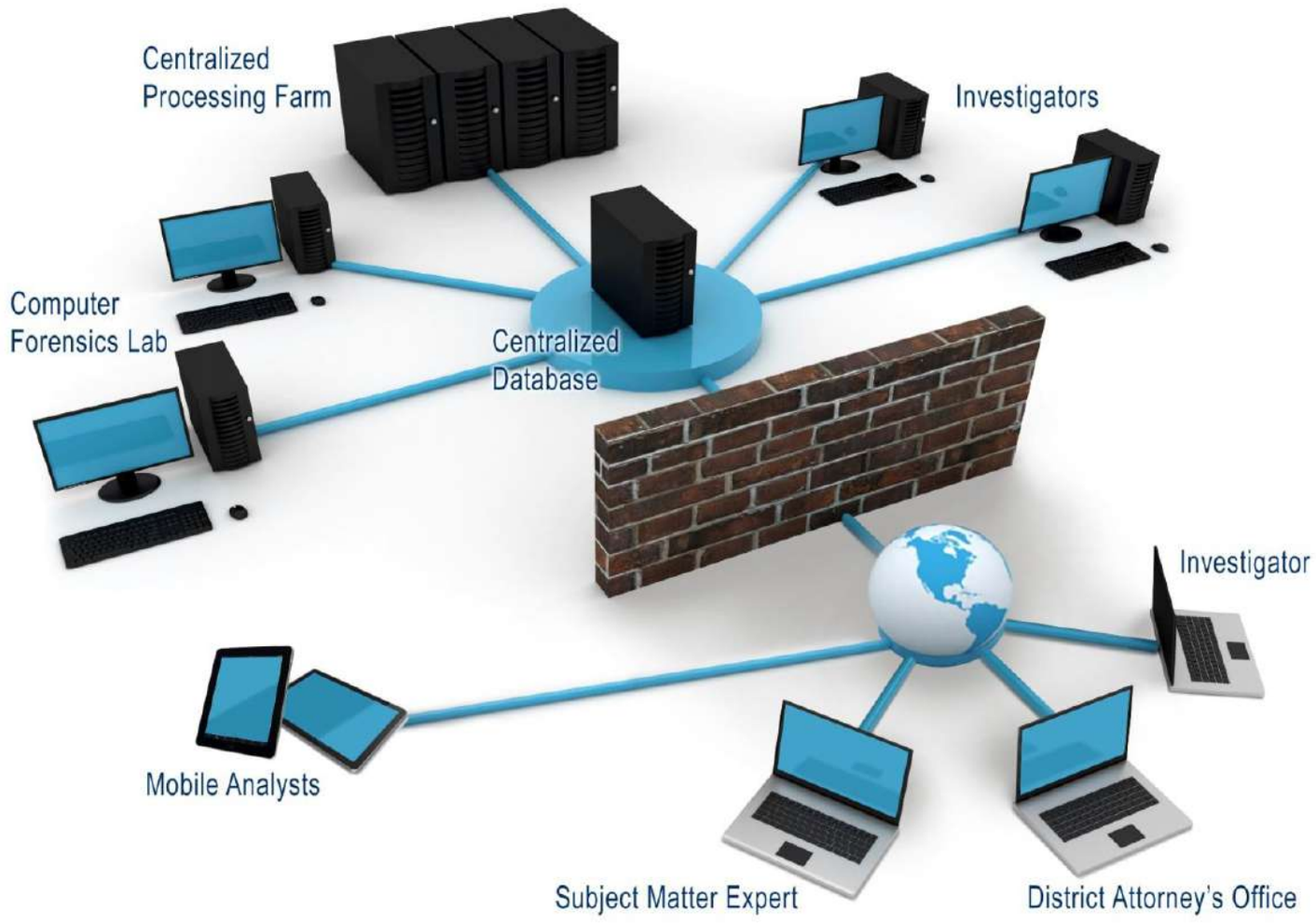
REAL TIME

COLLABORATION



Scalable features:

- ✓ Processing
- ✓ Examiners
- ✓ Databases
- ✓ Reviewers

Efficient Migration:

- ✓ Minimal learning curve for FTK users
- ✓ Minimal hardware outlay for reviewers

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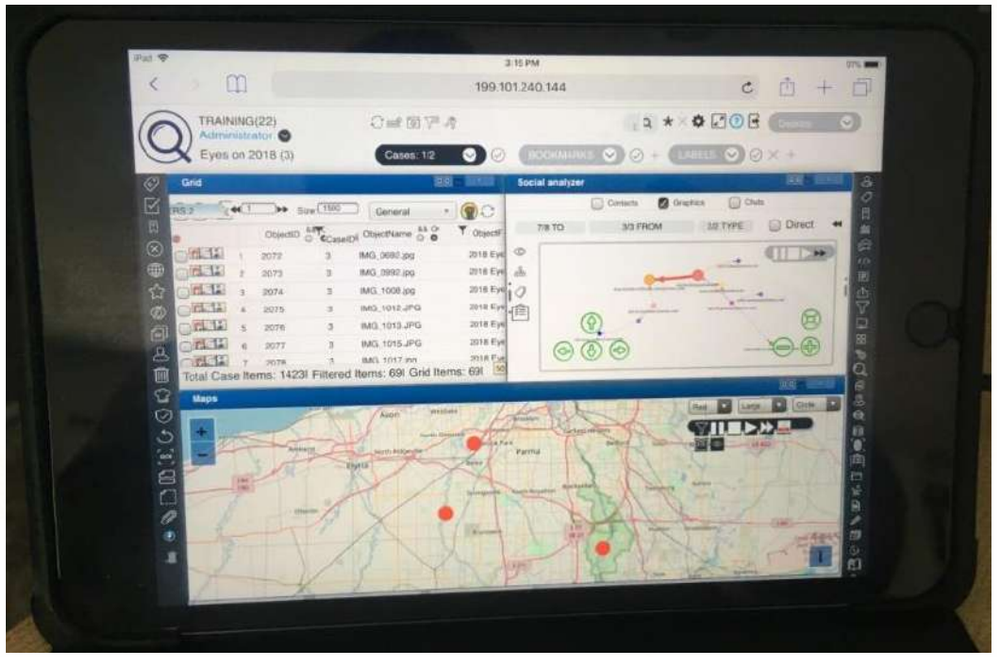
MOBILITY & FREEDOM

FROM HARDWARE



- ✓ AWS
- ✓ Bring your licensing …
- ✓ Use ours when you need

- ✓ HTML 5…
- ✓ Mobility with scale
- ✓ Holidays are over !!

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CENTRALISED

PLATFORM

Belkasoft forensics made easier

BlackBag TECHNOLOGIES

cellebrite delivering mobile expertise

compelson makers of MOBILedit!

evidence | talks ETL INTELLIGENCE • INTEGRITY • INNOVATION

MAGNET FORENSICS

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SINGLE LAB PLATFORM

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Workflow Techniques

Automation

Artificial Intelligence

Google

Image Recognition

Web Reviewers

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WHAT IS QUIN-C?

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QUIN-C

CURIOUS ABOUT THE NAME?

Quin-C is named in tribute to *Quincy, M.E.,* the popular television series about forensic pathology that aired from 1976 to 1983.

While many detective series at the time portrayed rudimentary physical evidence analysis such as fingerprints and bullet comparisons, *Quincy, M.E.* was the first series to regularly present in-depth forensic investigations – **it was ahead of its time.**

So is Quin-C.

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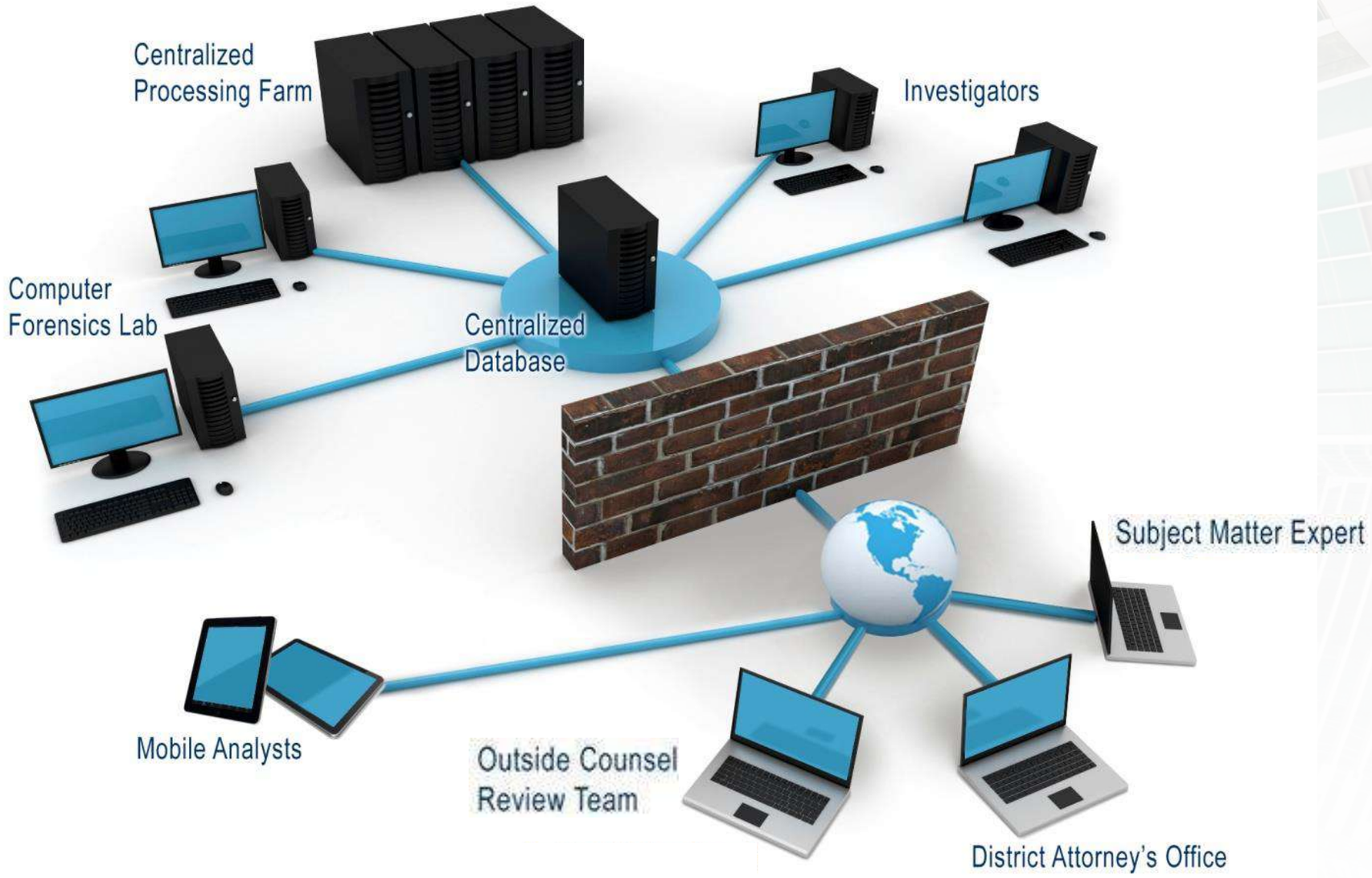
THE NOW...

THE FUTURE

The Now
- Basic
- Investigator
- Legal
- Collaboration

The Future
- Response tool
- Compliance tool
- Mobile analysis
- You dream it …



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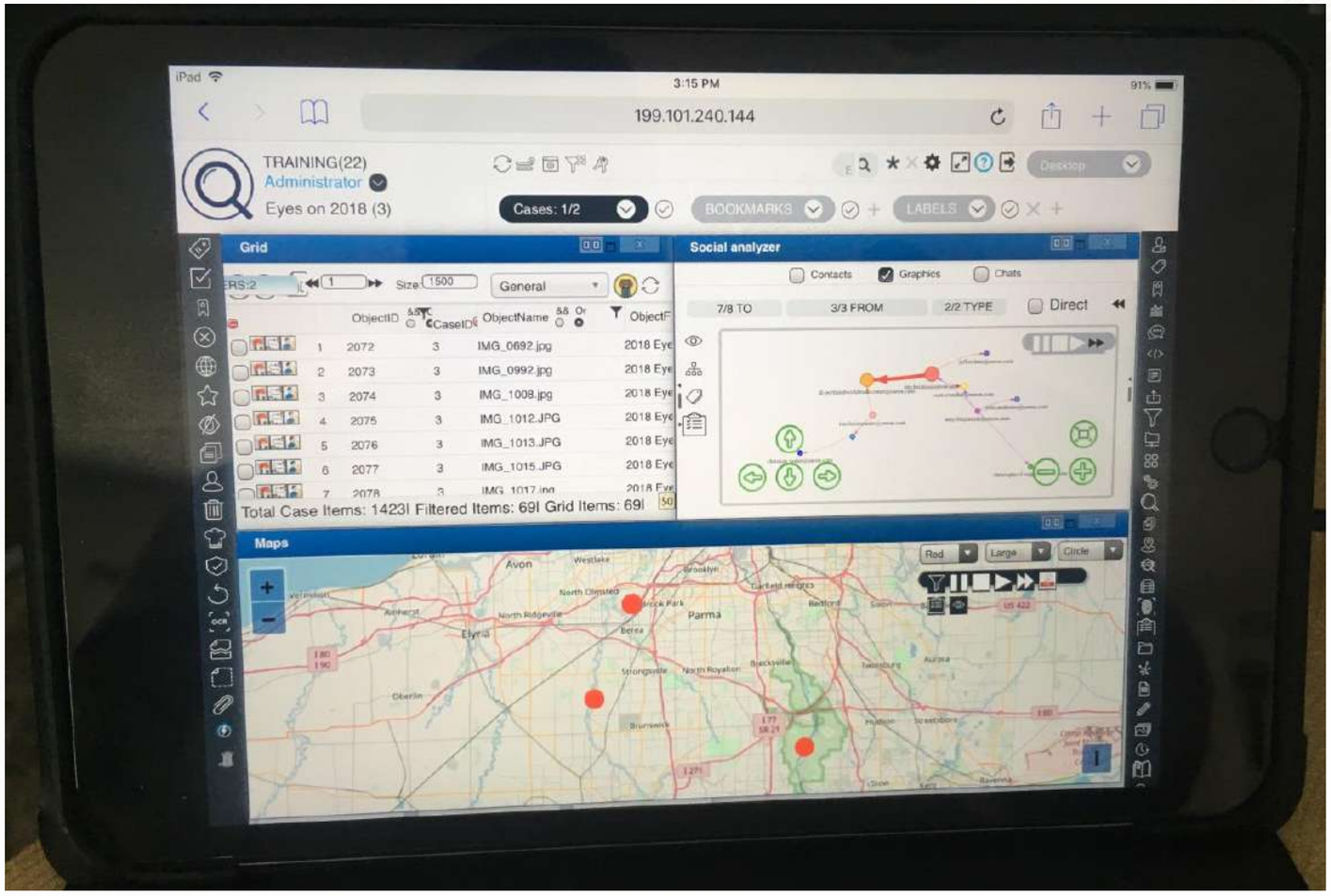
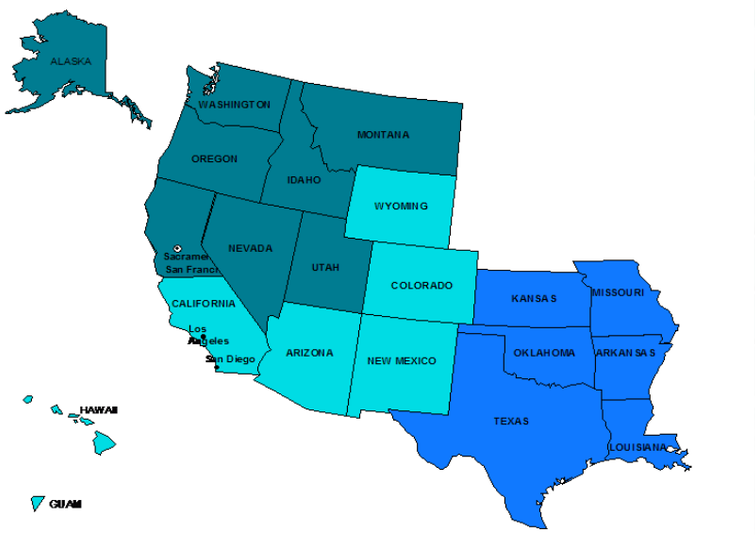
QUIN-C

IT REALLY DOES THIS...





- HTML 5 …
- Mobility with scale
- Holidays are over !!

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QUIN-C

Quin-C | Flight Results : Find & Book | Planetary Defense | NASA | Planetary Defense Frequen | Planetary Defense Coordina

Secure | https://www.nasa.gov/planetarydefense/overview

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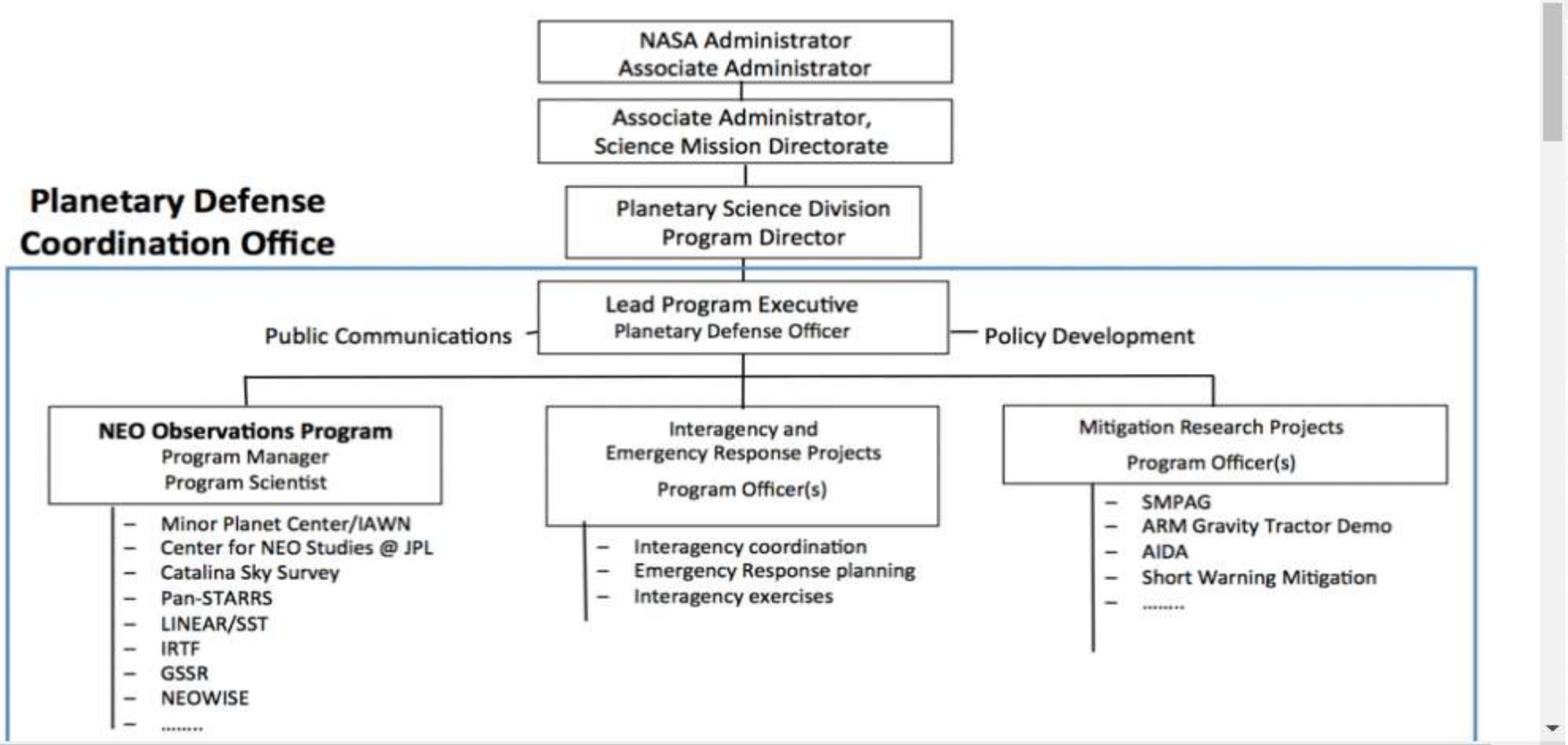
- Planetary Defense
- Frequently Asked Questions
- Supporting Documents
- Resources

Related Missions

- DART Mission
- NEOWISE
- OSIRIS-Rex

Related Topics

- Asteroids
- Comets



Start | 2:27 AM

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QUIN-C

THE LIST

Introduction
- What is QC
- Desktop Tour
- Talking Scale
- Turn ▲, ▼

CR1 - Maps
- Scale down
- Case Access
- Custom Data View
- User Tasking
- Map Plotting

CR2 - Email
- Scale Up
- Index Search
- Social Analyzer
- Document Mark-up

CR3 - Parsers
- Ecosystem
- Belkasoft Data
- Image Recognition (1st A/I)
- Wash / Rinse / Repeat !!

Freelance …
- Panel Views
- Localization
- Process Data / Import
- Export Widget
- Report Widget
- Auto-tagging
- Spreadsheets
- Bread sheets
- Thumbnails
- Video Thumbs

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QUIN-C

THE LIST

Freelance …

- 4 facets of speed
  - Grid Page Size
  - Lazy Load
  - Speed Columns
  - Database Lock
- Let’s plot a drone
  - Lat / Long
  - Elevation
  - Path
  - Rotor speeds

Admin …

- Configurations (*.*)
  - JSONs
  - Setup Configuration
  - Processing
  - Crime Types
  - Column Groups
  - Label Matrix
  - Viewer Configuration

Watson

- Predictive Coding
- Document Clustering
- Cross Case Images
- Cross Case Geo-Location
- Cross Case Contacts
- Entities
- Watson Investigations
  - Investigations
  - Who / What / When
  - Where / Why / Learning ??

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QUIN-C

THE LIST

Admin …

- System Values
  - Cases
  - Export
  - Transfer
  - Evidence
  - Using another DB
  - Distributed Processing
- Top Level Functions
  - Cases
  - Users
  - Roles

Admin …

- Configurations (*.*)
  - JSONs
  - Setup Configuration
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LIVE DEMO

LIVE DEMO

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QUESTION &
ANSWER

QUESTIONS?

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THANK YOU

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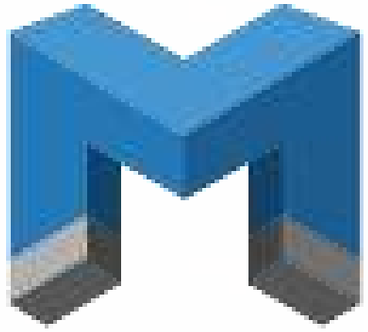
NEXT WEBINAR



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13th November 2018
2PM GST (GMT +4)

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