



XAMN

## XAMN helps you turn mobile device data into insights

### Find critical evidence and intelligence faster and more effectively than ever before

The amount of data stored on mobile phones and other mobile devices is dramatically greater today than ever before. That makes the challenges of searching, filtering and analyzing that data more daunting as well.

You need to quickly find what you are looking for, even in huge data sets.

Whether your mission is to gather and report intelligence, prevent crime or quickly produce solid evidence - the powerful and intuitive tools in XAMN enable the fastest possible route from having raw data to finding and reporting vital insights.

+ POWERFUL SEARCH AND FILTERING

+ VISUALIZATION AND REPORTING

+ FULLY SCALABLE

# The right tools in the right hands

The **XAMN** software suite features four products designed for different needs and user skill levels. Each product is integrated with the others, meaning you can apply every tool to the same data through a single interface. By upgrading your license, new options become available on the spot.



A free and easy-to-use analysis tool that enables users of all levels in your organization to perform quick and basic analysis of extracted mobile device data. Viewer is ideal for wide distribution.



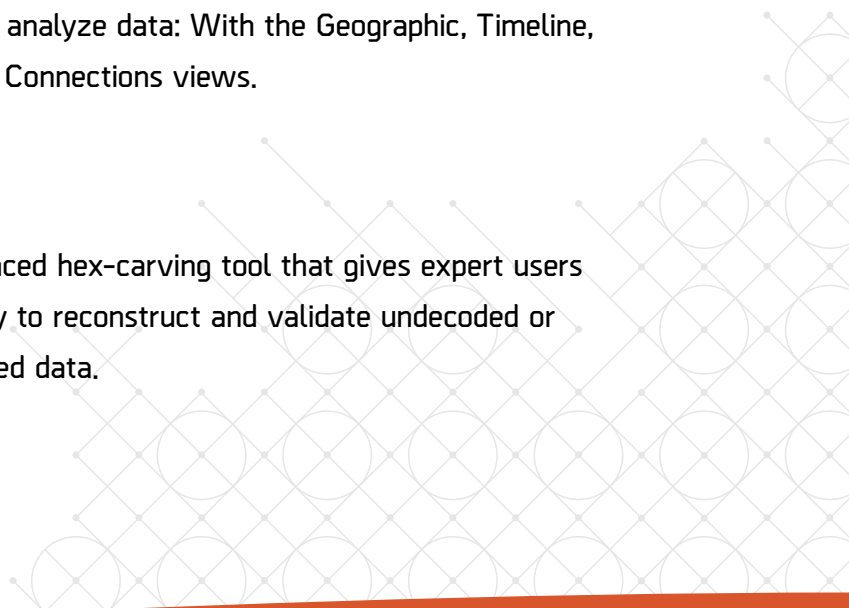
An uncompromising analysis tool that offers unparalleled filtering, search and viewing options. Spotlight is ideal for investigators and other users committed to data analysis.



Horizon gives investigators four powerful new ways to view and analyze data: With the Geographic, Timeline, Chat and Connections views.



An advanced hex-carving tool that gives expert users the ability to reconstruct and validate undecoded or fragmented data.





XAMN VIEWER

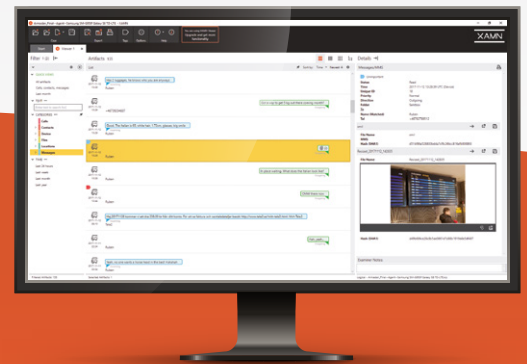
# Free-to-use analysis tool for your entire organization

**XAMN Viewer** is a simplified analysis tool that is free to download and use. It can be distributed to anyone in your organization that needs to open, view, analyze and/or report on mobile device data. Like XAMN Spotlight, XAMN Viewer is designed to help users slice, dice and search through large volumes of data to find key evidence and/or intelligence.

XAMN Viewer is a no-installation software application that can be provided along with extracted data to any authorized person – supervisors, investigators, legal advisors, court administrators, prosecution staff and others – to give them access to digital information found in mobile devices.

## PRODUCT HIGHLIGHTS

- Free to use – no installation and no license required
- Filter by content category, text, time, deleted data and more
- Highlight your findings with a comprehensive tagging functionality
- Export findings to PDF, XML, HTML, Word and Excel



XAMN SPOTLIGHT

# Search, filter and report any way you want

**XAMN Spotlight** is designed with one goal in mind: To increase analytical efficiency – so that you can find what you are looking for quickly and successfully. Today, investigators and forensic specialists are tasked with sifting through thousands – even tens of thousands of messages and pictures as well as gigabytes of data.

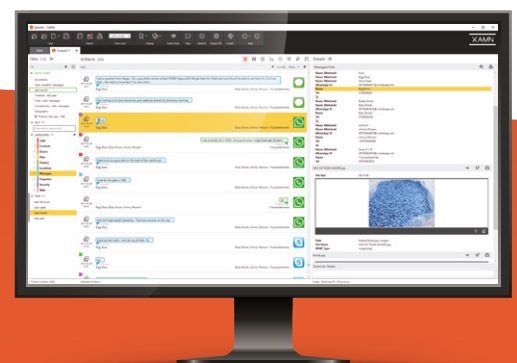
XAMN Spotlight is the primary tool for analysis and reporting. Load your mobile device extractions and use powerful filter, search and viewing tools to get past any redundant data and quickly find what you are looking for. After that, use one of many different options to visualize and report your findings.

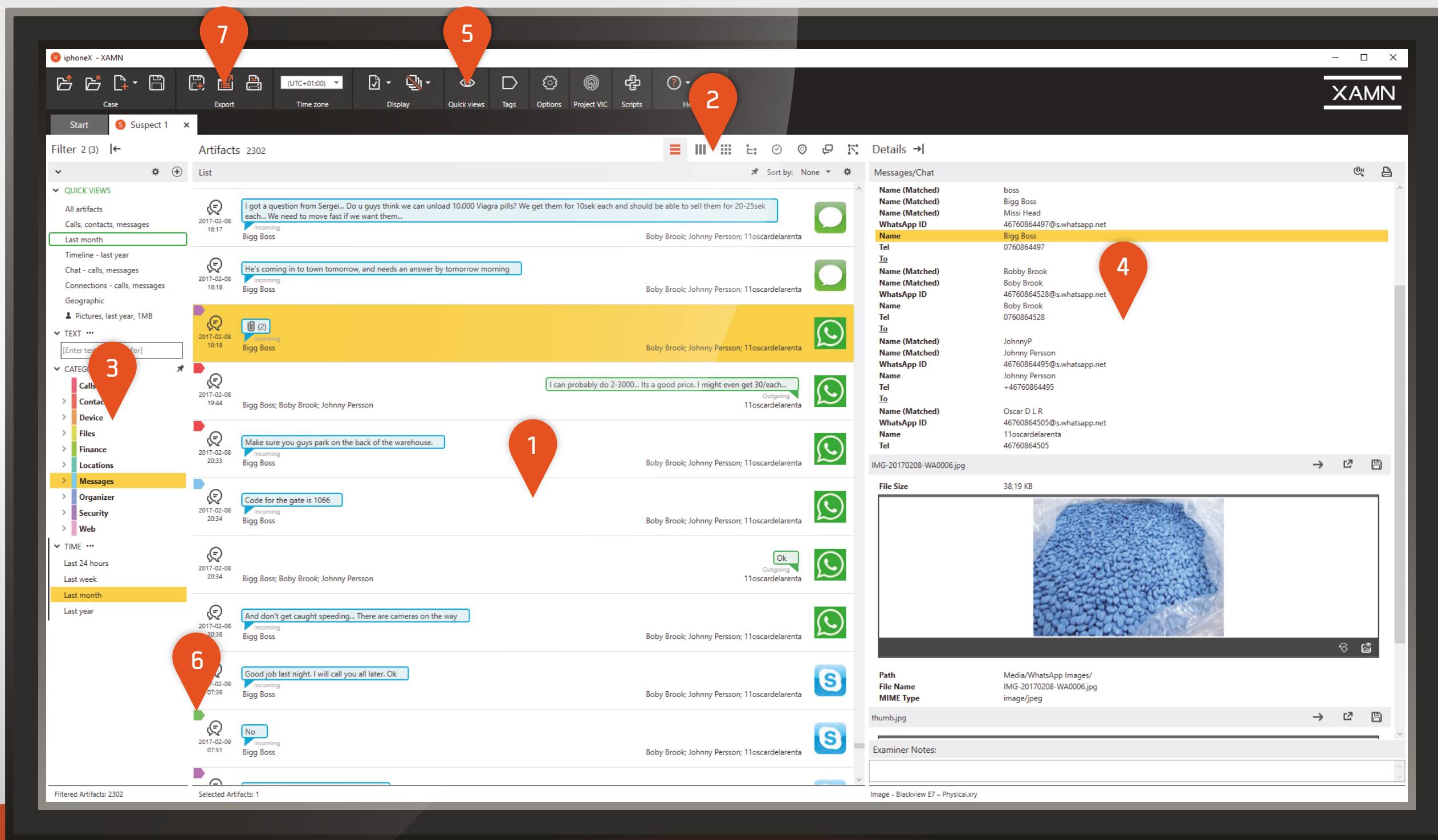
You can load many different extractions into XAMN Spotlight at the same time. This enables you to simultaneously search through and compare data from logical and physical handset extractions, memory cards, SIMs, XRY Camera files and XRY Cloud files.

XAMN Spotlight supports analysis of extractions from mobile phones, drones, wearable tech, GPS devices, vehicle information systems and more.

## PRODUCT HIGHLIGHTS

- Filter by content category, text, time, phone number, file size, geography, deleted data and more
- Use XAMN's AI-based content recognition filter to automatically classify images as weapons, drugs, people and other key categories – a tremendous time-saver in many cases
- Create and save your preferred filter configurations
- Highlight your findings with a comprehensive tagging functionality
- Export findings to PDF, XML, HTML, Word, Excel, GPX, KMZ, VICS and more
- Built-in viewers for PList, XML and SQLite files





## 1. Artifacts pane

The artifacts pane displays your filtered results and updates in real-time as you add or remove active filters. By default, it shows a list of all artifacts found in your imported device extraction or extractions.

## 2. Analytical views

With XAMN Viewer and Spotlight, you can investigate your filtered results with four unique analytical views: List, Column, Gallery and File tree view. With XAMN Horizon, four powerful new analytical views are added: Timeline, Geographic, Chat and Connection view.

## 3. Filter pane

There are many ways to filter data in XAMN. By filtering, you hide data that is uninteresting to your investigation to quickly find what you are looking for. In addition to the default filters, many more useful and powerful filters are easily accessed and activated in XAMN's intuitive interface. Artifacts are color coded throughout XAMN, to make it easy for you to distinguish between content types such as pictures, text messages and calls.

## 4. Details pane

The details pane shows you detailed information about a selected artifact, like this text message. Depending on the type of artifact, XAMN can offer you ways to pivot your search to find related artifacts. For example, you can easily create a new filter to look for artifacts created in the same timeframe or in the same geographic area.

## 5. Quick views

Quick views are sets of saved filter configurations. You can use one of the pre-defined quick views to instantly look only at calls, contacts and messages, or artifacts created in the last month --- or create your own. It is very easy to create new, customized quick views and they can help you greatly improve the speed of your investigations.

## 6. Tags

As you filter, search and analyze data - you want to organize your findings. Tags work as bookmarks for single or multiple artifacts. You can easily select multiple artifacts and simply right click to add or remove tags. There are default tags like "important" and "unimportant", but you can also create as many customized tags as you would like. When you export your findings in a report, there is an option to display your tags in the report.

## 7. Export options

A common step after performing an analysis is to export your findings in a report. In XAMN this is very simple and you have many export options. Export to Word, PDF, Excel, XML, HTML, VICS or one of the many other supported file formats. Each format comes with its own customization options. Choose to include all artifacts, filtered artifacts or only selected artifacts to ensure you retain control over what is included within your reports.





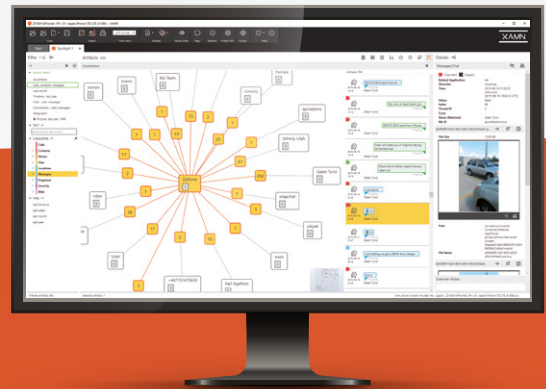
XAMN HORIZON

# Visualize extracted data in new, useful ways

**XAMN Horizon** builds on XAMN Spotlight with four added viewing capabilities: Geographic view, Chat view, Timeline view and Connection view. These new views enable you to discover and investigate data from new and exciting perspectives.

Horizon provides an immediate overview of the connections between different people of interest, and helps you discover additional individuals that may be relevant to your investigation.

The Geographic view lets you navigate data by location. Find places of interest and investigate the data connected to those places – such as calls made or received, pictures taken and more. The Chat view lets you track chat threads from different apps such as Whatsapp, iMessage, Facebook messenger and others. Zoom in or out to focus your analysis on any point in time using the Timeline view. And finally, use the incredibly powerful Connection view to discover and investigate the interactions between different identities and accounts.



## PRODUCT HIGHLIGHTS

- Four new viewing options: Geographic, Chat, Timeline and Connection views
- Load multiple extraction files to see the connections between people of interest
- Seamless integration with XAMN Spotlight

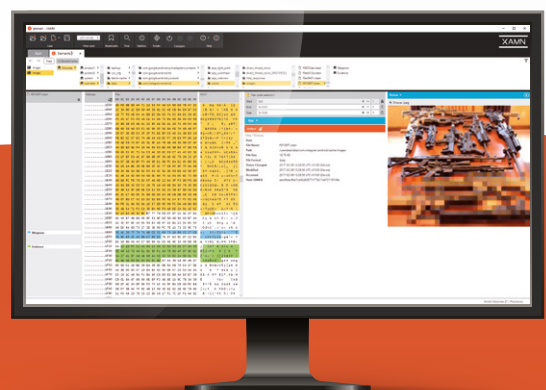


XAMN ELEMENTS

# Advanced data reconstruction made easier

**XAMN Elements** is the advanced hex carving tool for experts, designed to help you dig deeply into undecoded or fragmented data in order to bookmark, reconstruct and validate crucial pieces of information that would otherwise be unavailable.

Using the Unified Elements Map, you know where you are at all times, which makes it easier to navigate and reconstruct all the data safely, find the missing evidence and analyze it. XAMN Elements also helps the analyst by highlighting and pre-identifying already decoded data, allowing them to visualize undecoded data at a glance. In this way XAMN Elements enables the user to work faster and more efficiently by focusing on those areas most likely to contain relevant data. Furthermore, XAMN Elements is fully integrated with XAMN Spotlight, enabling a seamless workflow that includes combined reporting. And very importantly, Elements makes it easier to defend the validity of your findings.



## PRODUCT HIGHLIGHTS

- Advanced hex carving
- Bookmarking and highlighting functionality
- Unified Elements Map
- Export and import binary files
- Python scripting functionality
- Differential Engine facilitating the comparison of differences between files

XAMN FEATURE	Express	Viewer	Spotlight	Horizon	Elements
Native XRY file Review & Analysis	■	■	■	■	■
Standard Search Filters	■	■	■	■	■
Timeline Sorting	■	■	■	■	■
3 Export Options [ PDF   Excel   Ext XML ]	■	■	■	■	■
Data Tagging Tool	■	■	■	■	■
4 Investigator Views [ List   Grid   Gallery   File ]		■	■	■	■
Conversation View Reporting		■	■	■	■
Full suite of All Data Exporters		■	■	■	■
Unlimited Tabs		■	■	■	■
Drone Tab		■	■	■	■
Combine multiple XRY files in Tab screens		■	■	■	■
Artifact Property (Pivot) Filter			■		
Manage & Edit Quick Views			■		
Multi-Monitor tear-off Tab screens			■		
Extra Power Filters including Image Recognition			■		
Open Multimedia Viewer in a New Tab			■		
Source Mode – Hex Data View			■		
Known Data Filtering			■		
Group Duplicate Artifacts			■		
PLIST, XML & SQL Database Viewers			■		
Project VIC functionality			■		
UTC Time Adjustment Feature			■		
Translation Tool - (Additional License Required)			■		
Connection (Link Analysis) View Visualization				■	
Time Line View Visualization				■	
Geographical View Visualization				■	
Chat View Visualization				■	
Import Call Data Records				■	
Offline Maps (Additional License Required)				■	
Import UFED data				■	
Import and Manage Python Scripts					■
Unified Map of data					■
Hex Search of Binary data					■
Bookmark Hex data					■
Manual Reconstruction of Hex data					■
Live Decoding of data on the fly					■



## XAMN TRAINING

# Mobile forensic training that is second to none

We believe that the success of your mobile forensic operations depends on having the best tools available – and also on getting the best training. MSAB offers a full range of training courses in XAMN and our other product families. Learn from an instructor in a classroom setting, or online through our self-paced online training programs. When you complete our courses, you earn an industry-recognized certificate, attesting to your ability to meet the requirements of a modern mobile forensic examiner or qualified investigator.

# The Ecosystem of mobile forensics

Combined together, all our products, platforms and services form a complete Ecosystem of mobile forensics. No matter the type of users, locations, digital mobile devices or environments you work in; we provide tools designed to meet your particular needs. A solution from MSAB ensures best practice workflows for all stakeholders in your organization: front-line personnel, investigators, analysts and managers.

## XRY

### The XRY Family

The industry standard to extract digital forensic evidence and intel from mobile devices.



#### XRY Logical

Extract and recover data by communicating with the operating system.



#### XRY Physical

Extract and recover raw data directly from the device memory.



#### XRY Express

Extract and recover data through a simplified, locked-down workflow.



#### XRY Cloud

Extract and recover data by communicating with the operating system.



#### XRY Drone

Access and analyze drone forensic data.

## XAMN

### The XAMN Family

A suite with powerful, efficient and flexible tools to analyze and report mobile device data.



#### XAMN Viewer

A free and easy-to-use tool for quick and basic analysis and reporting.



#### XAMN Spotlight

The primary tool for analysis and reporting with powerful filtering, search and viewing options.



#### XAMN Horizon

Builds on Spotlight with four powerful new ways to view and analyze data.



#### XAMN Elements

A hex-carving tool that enables experts to reconstruct undecoded or fragmented data.

## XEC

### The XEC Family

Tools for effective management of your forensic processes and systems



#### XEC Director

Remote management of systems and users.



#### XEC Export

Batch export and conversion of XRY files into other formats.



### MSAB SERVICES

Services that enable your organization to deliver consistent best practice digital forensic results, develop your personnel and allow you to utilize your assets to the best effect.

- Strategy
- Implementation
- Training
- Support



### MSAB PLATFORMS

We supply MSAB software on different hardware platforms to suit different user levels and environments: Open platforms for traditional Windows computers with point-and-click interfaces, and turnkey platforms for easier-to-use systems with touch screen interfaces.



### THE XRY FILE FORMAT

The XRY file format keeps evidence secure and accounted for at all times, with a full forensic audit trail and protection of the evidence from initial extraction through analysis to the final report or presentation.