

# National Domestic Communications Assistance Center All Decuments Quick Upda x44/6/01010 COUSING ONLABATE ADMINIT NOOK

# Learning Pathways

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#### Featured Document



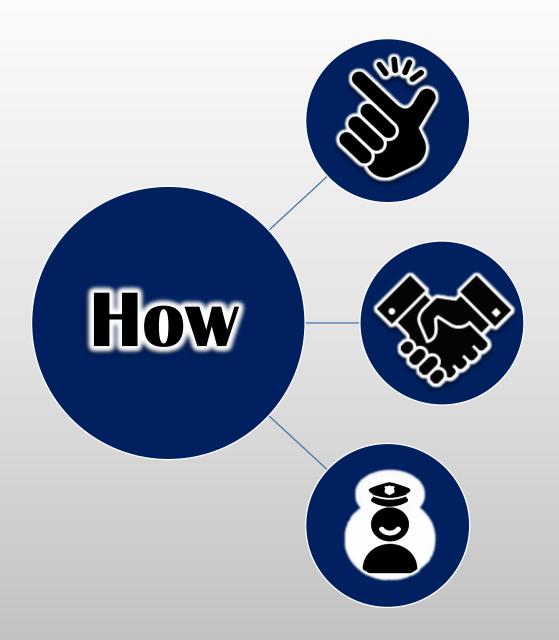
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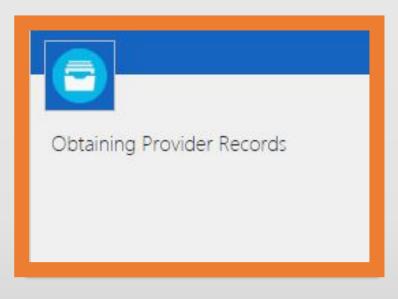
#### Recent Documents

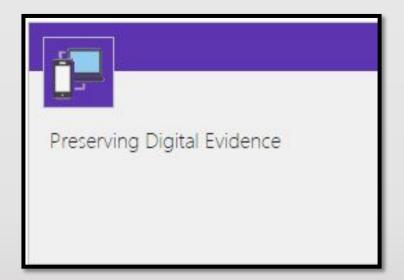
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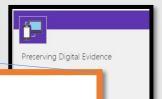








Obtaining Provider Records





#### How can we help?

We want to help support your investigation by sharing electronic evidence collection methods and best practices. But we know you might have a few questions.

Read on for details about identifying providers, collecting information, and more.



Reverse Location Records



Voice/Text Records



Internet Service Records

Reverse Location Search

Cellular Network and Handset Based Positioning

How to Request Records

How to Analyze Returns

Tins

Learn more >

Determine Provider

Historical Records (Subscriber/CDRs)

How to Request Records

Identifying an iMessage User

Tips

Learn more >

Recognize IP Addresses

Determine Provider

IP Address Attribution

Historical Records

Tips

Learn more >



Investigating Email Records

Historical Records

How to Request Records

Email Attribution

How to Identify an Account

Learn more >

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Reverse Location Records	Voice/Text Records	Internet Service Records
Reverse Location Search	Determine Provider	Recognize IP Addresses
Cellular Network and Handset Based Positioning	Historical Records (Subscriber/CDRs)	Determine Provider
How to Request Records	How to Request Records	IP Address Attribution
How to Analyze Returns	Identifying an iMessage User	Historical Records
Tips	Tips	Tips
Learn more >	Learn more >	Learn more >



How to Identify an Account

Learn more >

Home > Obtain > Email Records

#### **Obtaining Email Records**

Find out how to use an Email Address to identify an account, as well as details on serving legal process to obtain records and more.

#### Skip ahead to...

How can Investigating Email Records be Valuable to Law Enforcement

What Type of Records may be kept by an Email Provider

How to Request Email Records

How to Attribute the Sender of an Email Message

How to Identify an Account that was Accessed from a Particular Email Address

Special Note about Subscriber Notifications

How to Identify Associated User ID's using Advanced Open Source Searches

Tips for Working with Email Providers

#### How can Investigating Email Records be Valuable to Law Enforcement

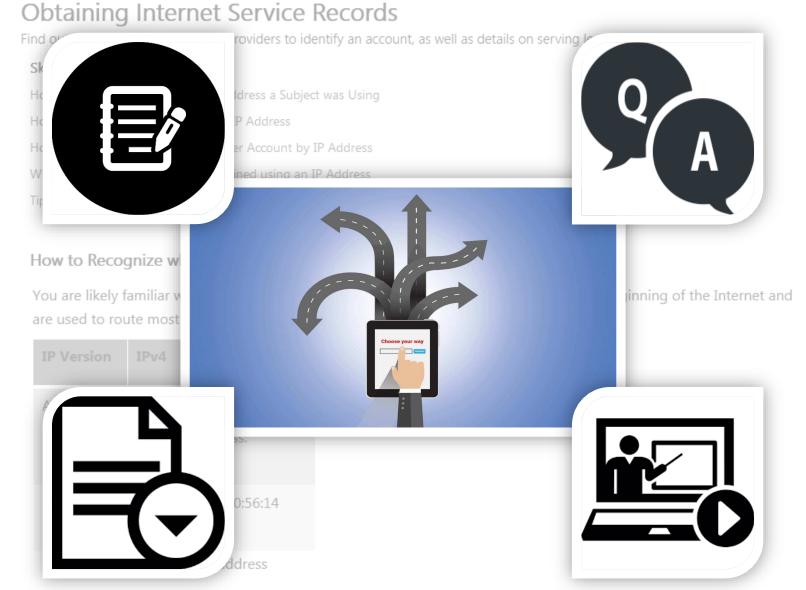
Email can be a starting point or a key element in many investigations. Analyzing a subject's email can provide you with information such as:

- Other e-mail messages related to this investigation
- Sender information
- IP addresses
- Date and time information
- User information
- Attachments
- · Content of the communications
- Application logs

There is a lot of valuable information available in the email header, but you need to know what to look for. By analyzing the extended email header, you can determine the originating IP address, which will help you discover the Internet service provider (ISP) the subject was using when they sent the email. Once you know the ISP used by the subject, you can use various legal processes to obtain records related to the subscriber of the Internet service.

Click Here for additional information on tracing the sender of an email message

Was this topic helpful? Yes / No



Because global demand for IP addresses now exceeds the total number of IPv4 addresses available, a successor protocol, IPv6, was developed to create a much larger inventory of IP addresses that are used interchangeably to route Internet traffic. You will be able to easily identify the difference between an IPv4 and an IPv6 IP address.

## Examples of Linked Job Aids

#### UNCL ASSIFTED

#### Network-based Investigative Information

This job aid supports information in the National Domestic Communications Assistance Center (NDCAC) computer based training course, "Basic Networking for Law Enforcement." If this job aid was helpful to you or you want more information on this topic, please review the course which can be found on the NDCAC portal in the Training section.

These tables show the different types of network-based information that you can obtain during an investigation.

#### IP Address

Tools are available on the Internet that allow you to research information about an IP address associated with a subject. The typical information you can obtain includes:

- · Owner's name and contact information
- · Range of IP addresses associated with the domain

#### Next step

- Obtain records from ISP (through appropriate legal process): Records include subscriber information, allocation records, and billing records. Billing records for registered owner will provide more information (someone had to pay for the service)
- Research contact information: Names and addresses may provide additional leads (be aware that this information may be fake)
- Research related IP addresses: They may provide more information to include in your subpoena request

#### Domain name

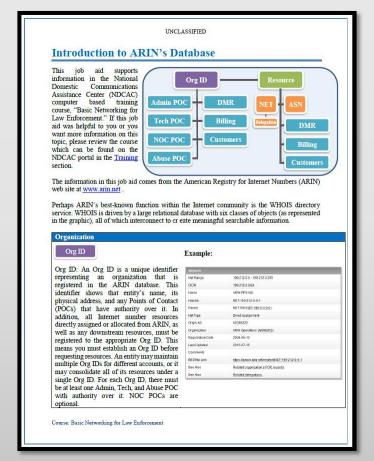
WHOIS tools may be able to provide:

- Registered owner's (registrant) name, address, and contact information
- Registrar's name, address, and contact information
- P address associated with the domain (if domain is hosted on the Internet)

#### Next steps

- Research registrant information: Names and addresses may provide you additional leads (be aware that this information may be fake)
- Research associated IP addresses using WHOIS tool: This will provide the Web host so you can subpoena additional information
- Subpoena registrar for records: You may be able to get subscriber records and billing records. Billing records for registered owner will provide you with more information (someone had to pay for the domain name)

Training Course: Basic Networking for Law Enforcement



#### UNCLASSIFIED

#### Time Zones Job Aid

This job aid supports information in the National Domestic Communications Assistance Center (NDCAC) computer based training course, "Tracing Email Addresses for Law Enforcement." If this job aid was helpful to you or you want more information on this topic, please review the course which can be found on the NDCAC portal in the Training section.

The following information is available at www.timeanddate.com

#### Coordinated Universal Time (UTC)

While you may be familiar with Greenwich Mean Time (GMT), Coordinated Universal Time or UTC replaced GMT as the official world time on January 1, 1972. UTC is based on atomic time at zero degrees longitude, which passes through Greenwich Observatory, a subusb of London, England. UTC uses a 24-hour clock that begins at 00:00 (midnight) and ends at 23:59 (11:59 p.m.)

Once you've identified the date/ time stamp associated with the originating IP address, you need to consider time zones and time zone offsets. Sometimes an extended email header will indicate the time zone, such as SET (Eastern Standard Time) or EDT (Eastern Daylight Time), or you may see a "time zone offset", such as -0500 or +0000 (UTC). Each server may use a different date/time stamp format. So, you may see time zone codes and time zone offsets with or without the "UTC" indicator in the same extended email header.

Example: To convert the UTC time to EDT, subtract 5 hours from UTC time of 19:57, giving us 14:57. The original email message was sent on Wednesday, Dec. 12 at 14:57 EDT.

#### Daylight Saving Time (DST)

Daylight Saving Time (DST) is a way of making better use of the daylight in the evenings by setting the clocks forward one hour during the longer days of summer, and back again in the fall. DST starts in the northern hemisphere between March-April and ends between September-November

The clock moves ahead (= losing one hour) in the spring when DST starts, and falls back one hour (= gaining one hour) when DST ends in the fall. To remember which way the clock goes, keep in mind one of these sayings: "spring forward, fall back" or "spring ahead, fall behind"

Standard time begins in the northern hemisphere between September-November and ends between March-April.

#### DST Start/End Dates (2019-2020)

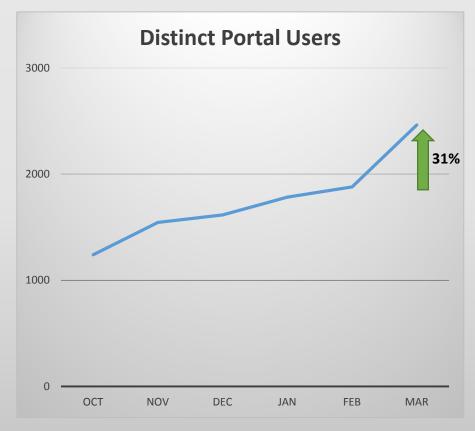
Time Zone	Date	Local Time	UTC Offset
EST	Sunday, March 10, 2019	1:59:59 AM	UTC - 5 hours
EDT (DST Starts)	Sunday, March 10, 2015	2:00 AM > 3:00 AM	UTC - 4 hours
EDT	Sunday, November 3, 2019	1:59:59 AM	UTC - 4 hours
EST (DST Ends)		2:00 AM -> 1:00 AM	UTC - 5 hours
EST	Sunday, March 8, 2020	1:59:59 AM	UTC - 5 hours
EDT (DST Starts)		2:00 AM > 3:00 AM	UTC - 4 hours
EDT	Sunday, November 1, 2020	1:59:59 AM	UTC - 4 hours
EST (DST Ends)		2:00 AM -> 1:00 AM	UTC - 5 hours

Course: Tracing Email Addresses for Law Enforcement

## Learning Pathways Dashboard



### **PORTAL USAGE TIMELINE**



**Highest Monthly Portal Usage** 



### STAKEHOLDER FEEDBACK

**COMMENTS RECEIVED** 

104

2

"Three separate times today, for unrelated cases, I passed along another NDCAC gem...I've never seen such a concise tool for agents to determine what is possible."

- Senior Investigator

