

DATA SHEET

Vectra Al Platform metadata attributes and descriptions

This document describes the important attributes in all the Network metadata streams supported by Vectra AI Platform.

Common fields in all metadata streams (except DHCP)		
Field	Description	
id.ip_ver*	IP Version	
id.orig_h	Originating endpoint IP address	
id.orig_p	Originating endpoint TCP/UDP port	
id.resp_h	Responding endpoint IP address	
id.resp_p	Responding endpoint TCP/UDP port	
local_orig	Boolean indicating if connection was locally originated	
local_resp	Boolean indicating if connection was locally responded	
orig_hostname*	Originating endpoint hostname	
orig_huid*	Unique identifier for the originating host if it is local	
orig_sluid*	Unique identifier for the originating host session	
resp_hostname*	Responding endpoint hostname	
resp_huid*	Unique identifier for the responding host if it is local	
resp_sluid*	Unique identifier for the responding host session if it is local	
sensor_uid	Unique identifier for Vectra sensor that observed the underlying traffic generating the metadata record	
ts	Timestamp when the metadata record is generated. It is in date format (e.g. May 9, 2018, 10:09:25.366)	
uid	Unique id of connection	

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	Beacon**	
Field	Description	
beacon_type	The type of beacon. 'single_resp_multiple_sessions' type indicates a beacon to one destination comprising of multiple sessions	
beacon_uid	The unique uid of the beacon	
duration	Total duration of the BeaconUid	
first_event_time	Timestamp of the first observed session for this beacon_uid	
ja3	Ja3 hash of client based on client SSL parameters	
last_event_time	Timestamp of the last observed session for this beacon_uid	
orig_ip_bytes	Total bytes sent from originator to responder for this beacon_uid	
proto	L4 protocol value. 6 is TCP, 17 is UDP	
protoName	L4 protocol name (TCP or UDP)	
resp_domains	The responder domains in this event	
resp_ip_bytes	Total bytes send from responder to originator for this beacon_uid	
service	Service (e.g. "http" or "tls")	
session_count	The number of sessions that comprise the beacon_uid	
uid	The unique uid of the first connection for the reported beacon event	

^{*}Unique to Vectra AI, not in standard Zeek output

^{**}Beacon metadata is uniquely computed by Vectra AI platform, not in standard Zeek output



DCE-RPC	
Field Description	
domain*	Domain of the host
endpoint	Endpoint name looked up from the uuid (e.g. IXnRemote, IWbemLoginClientID)
hostname*	Hostname on which the user logged in
operation	Operation seen in the call (e.g. "RemoteCreateInstance")
rtt	Round trip time of request – response
username*	Username or account name that logged in. Names ending in '\$' are machine names (not user account names)

DHCP	
Field	Description
assigned_ip	Assigned IP in response
dhcp_server_ip*	DHCP server IP address
dns_server_ips*	DNS server ips from DHCP options. DHCP Option 6
lease_time	DHCP lease time. DHCP Option 51
mac	MAC address in request
orig_hostname*	Hostname from DHCP options. DHCP Option 12
sensor_uid	Unique identifier for Vectra sensor that observed the underlying traffic generating the metadata record
trans_id	Transaction id
ts	Timestamp when the metadata record is generated. It is in date format (e.g. May 9, 2018, 10:09:25.366)
uid	Unique id of connection

DNS		
Field	Description	
AA	Authoritative answer. True if server is authoritative for the query	
answers†	List of answers to the query	
auth	List of Authoritative responses for the query	
proto	Protocol of DNS transaction—6 (for TCP) or 17 (for UDP)	
qclass / qclass_name	Value specifying the query class (e.g. 1 / Internet [IN])	
qtype / qtype_name	me query type value / descriptive name (e.g. A, AAAA, PTR, TXT)	
query†	Domain name subject of the query	
RA	Recursion available. True if server supports recursive queries	
RD	Recursion desired. True if recursive lookup of query requested	
rcode / rcode_name	Response code value in the DNS response (e.g. NXDOMAIN, NODATA)	
rejected	The DNS query was rejected by the server	
saw_query	Whether the full DNS query has been seen	
saw_reply	Whether the full DNS reply has been seen	
TC	Truncation flag. True if the message was truncated	
TTLs	List of TTLs from the answers	
total_answers	The total number of resource records in a reply message's answer section	
total_replies	The total number of resource records in a reply message's answer, authority, and additional sections	
trans_id	16-bit identifier assigned by DNS client	

^{*} Unique to Vectra AI, not in standard Zeek output

[†] Field may contain Base64 encoded data if the metadata contains invalid UTF-8



НТТР		
Field Description		
cookie*	Cookie header	
cookie_vars*	The variables in the cookie, without the values	
host	Value of the Host header	
host_multihomed*	Boolean attribute that indicates whether the address in the host header is observed to be associated with one or multiple IPs	
is_proxied*	Boolean value indicative of a proxied request	
method	HTTP Request Method	
orig_ip_bytes*	Bytes sent by originator to responder	
orig_mime_types	Content type header in originator request	
orig_pkts*	Number of packets sent from originator to responder	
proxied	Value of x-forwarded-for header (e.g. X-FORWARDED-FOR -> 10.10.15.192)	
referrer	Value of the Referrer header	
request_body_len	HTTP payload bytes in request	
request_cache_control*	Cache control header in the request, if present	
request_header_count*	Count of headers in request	
resp_filename	The name of the file returned by the server (if any)	
resp_ip_bytes*	Bytes send by responder to originator	
resp_mime_types	Content type header in response	
resp_pkts*	Number of packets sent from responder to originator	
response_body_len	HTTP payload bytes in response	
response_cache_control*	Cache control header in the response, if present	
response_content_disposition	The value of the Content-Disposition header (specifies names of the files to be downloaded as attachment, e.g. 'attachment; filename="filename.jpg")	
response_expires*	Expires header in response, if present	
response_header_count*	Count of headers in response	
status_code	The status code in the HTTP response	
status_msg	The status message corresponding to the status code	
uri	URI used in the request	
user_agent	Value of the User-Agent header	

ISession Connectivity				
Field	Description			
application	Applications associated with this session			
conn_state	Takes values: S0, S1, SF, REJ, S2, S3, RSTO, RSTR, RSTOSO, RSTRH, SH, SHR, or OTH			
	S0	Connection attempt seen, no reply.		
	S1	Connection established, not terminated.		
	SF	Normal establishment and termination. Note that this is the same symbol as for state S1. You can tell the two apart because for S1 there will not be any byte counts in the summary, while for SF there will be.		
	REJ	Connection attempt rejected.		
	S2	Connection established and close attempt by originator seen (but no reply from responder).		
	Connection established and close attempt by responder some reply from originator).			
	RSTO Connection established, originator aborted (sent a RST).			
	RSTR	Responder sent a RST.		
	RSTOS0	Originator sent a SYN followed by a RST, we never saw a SYN-ACK from the responder.		
	RSTRH	Responder sent a SYN ACK followed by a RST, we never saw a SYN from the (purported) originator.		
	SH	Originator sent a SYN followed by a FIN, we never saw a SYN ACK from the responder (hence the connection was "half" open).		
	SHR	Responder sent a SYN ACK followed by a FIN, we never saw a SYN from the originator.		
-	ОТН	No SYN seen, just midstream traffic (one example of this is a "partial connection" that was not later closed).		
dir_confidence	Client/server assignment confidence from 0 to 100			
duration	Duration	of connection in ms		
orig_ip_bytes	Bytes sent from originator to responder			
proto	L4 protocol value. 6 is TCP, 17 is UDP			
protoName	L4 protoc	ol name (TCP, UDP or ICMP)		
resp_ip_bytes	Bytes send from responder to originator			
service	Service (e.g. "smb")			



ISession Connectivity	
Field	Description
first_orig_resp_data_pkt*	Base64 encoding of the first 16 bytes of the packet from originator to responder, represented as a string
first_orig_resp_data_pkt_time*	Timestamp of first data packet from originator to responder
first_orig_resp_pkt_time*	Timestamp of first packet from originator to responder
first_resp_orig_data_pkt*	Base64 encoding of the first 16 bytes of the packet from responder to originator, represented as a string
first_resp_orig_pkt_time*	Timestamp of first packet from responder to originator
first_resp_orig_data_pkt_time*	Timestamp of first data packet from responder to originator
orig_pkts	Number of packets sent from originator to responder
orig_vlan_id*	VLAN_id of originator, if any
resp_domain*	Domain of responder
resp_multihomed*	Boolean attribute that indicates whether the domain is observed to be associated with one or multiple IPs
resp_pkts	Number of packets sent from responder to originator
resp_vlan_id*	VLAN_id of responder, if any
session_start_time	Timestamp when session started

Kerberos	
Field	Description
client	Client name, including realm
data_source	The source of the record, either "network" or "log"
error_code	Error code if not a success
error_msg	Error message if not a success
orig_host_observed_privilege*	The privilege represents the observed privilege based on the activity of an account seen to operate from the host. The scores can fall in three categories – Low (1, 2), Medium (3, 4, 5, 6, 7) and High (8, 9)
protocol*	L4 protocol. 6 (TCP) or 17 (UDP)
rep_cipher	The Response ticket encryption type
reply_timestamp*	Timestamp of reply
req_ciphers	The request ticket encryption type(s)
request_type	Type of request. AS or TGT.
service	Service being requested, including realm
success	Whether request was success or not



LDAP*	
Field	Description
attributes	A set of attributes to request for inclusion in entries that match the search criteria and are returned
baseObject	Base of the subtree in which the search is to be constrained
bind_error_count	If there are bind errors, count of the errors
duration	Duration of the session
encrypted_sasl_payload_count	If sasl encryption is used, the number of encrypted sasl payloads encountered
error	The error message in case of error (e.g. "0000208D: NameErr")
logon_failure_error_count	The count of logon errors
ls_close	Boolean flag indicating whether the close was observed
Is_query	Boolean flag indicating whether the query was observed in the request
matched_dn	The matched distinguished name
message_id	Message id
query	Criteria to use to identify which entries within the scope should be returned
query_scope	The portion of the target subtree that should be considered (e.g. wholeSubtree)
response_bytes	Number of bytes in the response
result	The result of the query in this request
request_bytes	Number of bytes in the request
result_code	The result code (success or failure) in the response
result_count	The count of the entries in the result

	Match
Field	Description
eve_json.alert.category	Category of the Alert Message
eve_json.alert.gid	Unique identifier for group of signatures. Defaults to 1 for most signatures.
eve_json.alert.metadata.affected_product	Specifies details on the affected product
eve_json.alert.metadata.attack_target	Specifies if the attack target is the Client, Server, Both, or Other
eve_json.alert.metadata.created_at	Specifies the date the signature was created
eve_json.alert.metadata.deployment	Specifies where the signature should be deployed
eve_json.alert.metadata.malware_family	Specifies the Malware Family that is associated with the signature
eve_json.alert.metadata.policy	Specifies details on the alert policy
eve_json.alert.metadata.signature_severity	Describes the severity associated with the signature
eve_json.alert.metadata.tag	Specifies any tag information assigned to the signature by the author
eve_json.alert.metadata.updated_at	Specifies the data of the last update to the signature
eve_json.alert.rev	Alert signature revision number indicating if the signature has been updated
eve_json.alert.rule	Specifie the rule that fired the alert
eve_json.alert.severity	Number representing the severity of the alert
eve_json.alert.signature	The rule name. Based on the 'msg' text in the signature
eve_json.alert.signature_id	Alert signature Identifier
eve_json.alert.xff	Value of x-forwarded-for
eve_json.direction	Specifies the traffic direction of the alert
eve_json.packet	Specifies the packet that triggered the signature
eve_json.payload	Provides the Base64 Encoded packet payload information
eve_json.payload_printable	Provides the payload presented in ASCII
eve_json.proto	L4 protocol name

^{*}Unique to Vectra AI, not in standard Zeek output



NTLM	
Field	Description
domain	Domain of the host
hostname	Hostname on which the user logged in
status	Status code in response
success	Whether the request was successful or not
username	Username or account name that logged in

RDP	
Field	Description
client_build	RDP client version used by client machine. Will be "unknown" if encrypted
client_dig_product_id	Product ID of the client machine
client_name	Name of the client machine
cookie	Cookie value used by client machine (username)
desktop_height	Desktop height of client machine. 0 if encrypted
desktop_width	Desktop width of client machine. 0 if encrypted
keyboard_layout	Keyboard layout (language) of client machine (e.g. "US" "Encrypted Keyboard Layout")
result	If encrypted, result value is "encrypted" otherwise it will be empty

	Radius
Field	Description
account_authentic	Identifies how the user was authenticated
account_delay_time	Identifies how long the sender has been trying to send the message for
account_input_gigawords	Identifies how many times the Acct-Input counter has rolled over for input
account_input_octets	How many bytes have been received
account_input_packets	How many packets the system has received
account_output_gigawords	Identifies how many times the Acct-Input counter has rolled over for output
account_output_octets	How many bytes have been set
account_output_packets	How many packets the system has sent
account_session_id	This is a unique ID that identifies the RADIUS Accounting Session which is sent in a separate packet.
account_session_time	Duration of service received by user
calling_station_id	This is the identifier of the calling station
connect_info	Identify the speed of the connection or other connection related information
delegated_ipv6_prefix	IPv6 Pool from which the IPv6 address was assigned
dst_display_name	DNS Name of the Destination
dst_host_luid	This is the ID of the destination host with host ID
dst_luid	The LUID of the RADIUS Server
dst_luid_external	Value is True if the destination is external
event_timestamp	Similar to ts but is the timestamp from the device, not from Vectra
filter_id	This identifies any ACL that is in use
framed_address	This field is available in the request that identifies the endpoint requesting authentication
framed_interface	Identifies the interface used when the user connects to the system
framed_ip_address	IP address of the endpoint device connecting to the system
framed_ipv6_prefix	Indicates the framed IPv6 prefix for the user
framed_protocol	Identifies the Framed Protocol used when the user connects to the system



	Radius (con't)
Field	Description
idle_timeout	Amount of time a session can be idle before it is disconnected
logged	The boolean attribute indicates if the request was previously logged
mac	MAC Address if observed as a field in the Radius message
nas_identifier	Identifies the role the authenticating client is requesting
nas_ip_address	This is an IP Address format, it can be the IP of the Device, the Endpoint, or Intermediate system, depending on implementation
nas_port	Physical Port Number of the Device Authenticating the User
nas_port_id	Text string identifying the port provided by the client
nas_port_type	This is the type of medium of the port (e.g. Ethernet, Wifi &c.)
password_seen	Boolean attribute indicating password was seen
radius_type	The value indicates if it is an access or accounting request
reply_msg	Reply message from the server challenge. This is frequently shown to the user authenticating.
reply_timestamp	Timestamp when the reply message was received
result	Success or Failed Authentication
service_type	Type of service the user has requested
session_timeout	This is the maximum session length
src_display_name	DNS Name of the Source
src_host_luid	This is the ID of the Src with Host ID
src_luid	The LUID of the RADIUS Client
src_luid_external	Value is True if the source is external
ttl	The duration between the first request and either the "Access-Accept" message or an error. If the field is empty, it means that either the request or response was not seen.
tunnel_client	Address (IPv4, IPv6, or FQDN) of the initiator end of the tunnel, if present. This is collected from the Tunnel-Client-Endpoint attribute.
username	This is the username if observed in the Radius message

SMB Files	
Description	
Action taken on file	
Flag indicating if the delete_on_close attribute is enabled. If enabled, a file close action may delete the file if it is the last close on the file	
Path pulled from the tree this file was transferred to or from	
If the rename action was seen, this will be the file's previous name	
Filename if one was seen	
SMB version (SMBv1 or SMBv2)	

SMB Mapping	
Field	Description
domain*	Domain of the host
hostname*	Hostname on which the user logged in
path	Name of the tree path
service	Type of re-originator of the tree
version	SMB version (SMBv1 or SMBv2)
username*	Username or account name that logged in. Names ending in '\$' are machine names (not user account names)

^{*}Unique to Vectra AI, not in standard Zeek output



SMTP	
Field	Description
CC	Contents of the CC header, formatted as a comma separated list
date	Contents of the Date header
dkim_status	pass/fail/none. Based on the 'Authentication-results' header
dmarc_status	pass/fail/none. Based on the 'Authentication-results' header
first_received	Contents of the first Received header, which signifies the first SMTP server to receive this message, (i.e. sending server)
from	Contents of the From header
helo	Contents of the Helo header
in_reply_to	Contents of the In-Reply-To header
mail_from	Email addresses found in the From header
msgid	Contents of the MsgID header
rcpt_to	Email addresses found in the Rcpt header, formatted as a comma separated list
reply_to	Contents of the ReplyTo header
second_received	Contents of the second Received header, which signifies the second SMTP server to receive this message
subject	Contents of the Subject header
spf_helo_status	Based on the 'Received-SPF' header in smtp. This header specifies the SPF status (Sender Policy Framework) One of pass/fail/neutral/softfail/none/temperror/permerror See: https://tools.ietf.org/html/rfc7208#section-9.1
spf_mailfrom_status	One of pass/fail/neutral/softfail/none/temperror/permerror
tls	Indicates that the connection has switched to using TLS
to	Contents of the To header, formatted as a comma separated list
user_agent	Value of the User-Agent header from the client
x_originating_ip	Contents of the X-Originating-IP header

SSH	
Field	Description
client	The client's version string
cipher_alg	The encryption algorithm in use
compression_alg	The compression algorithm in use
hassh	hassh hash of client based on client SSH parameters
hasshServer	haashServer hash of server based on client SSH parameters
host_key	The server's key fingerprint
host_key_alg	The server host key's algorithm
kex_alg	The key exchange algorithm in use
mac_alg	The signing (MAC) algorithm in use
server	The server's version string
version	SSH major version (1 or 2)



SSL	
Field	Description
application	Applications associated with this session
cipher	SSL/TLS cipher suite chosen from server
client_curve_num*	Elliptical curve number sent by the client
client_ec_point_format*	Elliptical curve point format offered by the client
client_extension*	Client extensions
client_issuer	Client cert issuer
client_subject	Client cert subject
client_version*	SSL version string sent by the client
client_version_num*	SSL version number sent by the client
curve	Elliptical curve number for ECDHE
established	Flag to indicate if this ssl session has been established successfully, or if it was aborted during the handshake
issuer	Server cert issuer
ja3	Ja3 hash of client based on client SSL parameters
ja3s	Ja3s hash of server based on server SSL parameters
ja4	Ja4 fingerprint hash based on the client-side TLS handshake
ja4s	Ja4s fingerprint hash based on the server-side TLS handshake
next_protocol	Next protocol the server chose using the application layer next protocol extension, if present
server_extensions	Server extensions
server_name	SNI value
subject	Server cert subject
version	SSL/TLS version that the server chose
version_num	Numeric SSL/TLS version that the server chose
version/version_num	SSL version number

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For more information about Vectra AI metadata attributes, please contact us at info@vectra.ai.

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X509	
Field	Description
application	Applications associated with this session
basic_constraints.ca	Flag indicating whether the subject of the certificate is a CA
basic_constraints.path_len	Maximum depth of valid certification paths that include this certificate
certificate.cn	Common name that identifies the host name of the certificate
certificate.curve	Curve, if EC-certificate
certificate.exponent	Key exponent
certificate.issuer	Combination of country, organizations, common name, issuer, URI
certificate.key_alg	Name of the public key algorithm that is used in data transmission, e.g. RSA encryption
certificate.key_length	Number of bits used in the encryption, e.g. 2,048-bit encryption
certificate.key_type	Three key types, depending upon the key algorithm
certificate.not_valid_after	Time after the certificate is invalid
certificate.not_valid_before	Time before the certificate is invalid
certificate.self_issued	Boolean flag indicating whether the certificate is self-issued or backed by a CA
certificate.serial	Unique serial number given by certificate authority or certificate signed authority. Usually 40 hexadecimal characters
certificate.sig_alg	Name of the signature algorithm
certificate.subject	Owner of the certificate (distinguished name)
certificate.version	Version of the server certificate (SSI V3, TLS V1, TLS V2, etc.)
san.dns	Specifying a list of additional host names for a single certificate along with DNS names that are associated with SAN (Subject Alternative Name)
san.email	Email address associated with the SAN
san.ip	IP address of the SAN in the digital certificate
san.other_fields	Other fields in the SAN
san.uri	URL name associated with SAN