



Schema: File Event Tables

This chapter contains information on the schema and supported joins for file events. For more information, see the section listed in the following table.

Table 10-1 *Schema for File Event Tables*

| See... | For the table that stores information on... | Version |
|---------------------------------------|--|---------|
| file_event, page 10-1 | File events generated when file transfers are detected in the monitored network. | 5.1.1+ |

While the following tables are available, Cisco does not currently support lookups on them:

- `file_categories`
- `file_rules`
- `file_types`
- `file_type_rule_map`
- `file_type_category_map`

file_event

The `file_event` table contains information about the file events that your Firepower Management Center generates. A new file event is generated each time a file transfer is detected on the monitored network. Files identified as malware by AMP for Firepower generate both a file event and a malware event. Endpoint-based malware events do not have corresponding file events, and file events do not have AMP for Endpoints-related fields.

For more information, see the following sections:

- [file_event Fields, page 10-2](#)
- [file_event Joins, page 10-5](#)
- [file_event Sample Query, page 10-6](#)

file_event Fields

The `file_event` table contains information on files that are detected passing through the monitored network. Each file event can be correlated with a connection event. Details of the file and file transfer are recorded, including the name, size, source, destination, and direction of the file, a SHA256 hash of the file, the device that detected the file, and whether it is considered to be malware.

Table 10-2 *file_event Fields*

| Field | Description |
|--------------------------------------|--|
| <code>action</code> | The action taken on the file based on the file type. Can have the following values: <ul style="list-style-type: none"> 1 — Detect 2 — Block 3 — Malware Cloud Lookup 4 — Malware Block 5 — Malware Whitelist 6 — Cloud Lookup Timeout |
| <code>application_id</code> | ID number that maps to the application using the file transfer. |
| <code>application_name</code> | One of the following: <ul style="list-style-type: none"> the name of the application used in the connection <code>pending</code> or <code>unknown</code> if the system cannot identify the application blank if there is no application information in the connection |
| <code>archived</code> | Indicates whether the file has been archived. |
| <code>cert_valid_end_date</code> | The Unix timestamp on which the SSL certificate used in the connection ceases to be valid. |
| <code>cert_valid_start_date</code> | The Unix timestamp when the SSL certificate used in the connection was issued. |
| <code>client_application_id</code> | The internal identification number for the client application, if applicable. |
| <code>client_application_name</code> | The name of the client application, if applicable. |
| <code>connection_sec</code> | UNIX timestamp (seconds since 00:00:00 01/01/1970) of the connection event associated with the file event. |
| <code>counter</code> | Specific counter for the event, used to distinguish among multiple events that happened during the same second. |
| <code>direction</code> | Whether the file was uploaded or downloaded. Currently the value depends entirely on the protocol (for example, if the connection is HTTP it is a download). |
| <code>disposition</code> | The malware status of the file. Possible values include: <ul style="list-style-type: none"> <code>CLEAN</code> — The file is clean and does not contain malware. <code>UNKNOWN</code> — It is unknown whether the file contains malware. <code>MALWARE</code> — The file contains malware. <code>UNAVAILABLE</code> — The software was unable to send a request to the Cisco cloud for a disposition, or the Cisco cloud services did not respond to the request. <code>CUSTOM SIGNATURE</code> — The file matches a user-defined hash, and is treated in a fashion designated by the user. |

Table 10-2 *file_event Fields (continued)*

| Field | Description |
|-----------------------|--|
| domain_name | Name of the domain on which the .event was detected |
| domain_uuid | UUID of the domain on which the event was detected. This is presented in binary. |
| dst_continent_name | The name of the continent of the destination host. ** — Unknown na — North America as — Asia af — Africa eu — Europe sa — South America au — Australia an — Antarctica |
| dst_country_id | Code for the country of the destination host. |
| dst_country_name | Name of the country of the destination host. |
| dst_ip_address_v6 | Field deprecated in Version 5.2. Returns null for all queries. |
| dst_ipaddr | A binary representation of the IP address of the destination host involved in the triggering event. |
| dst_port | Port number for the destination of the connection. |
| event_description | The additional event information associated with the event type. |
| event_id | Event identification number. |
| file_name | Name of the detected file. This name can contain UTF-8 characters. |
| file_sha | SHA256 hash of the file. |
| file_size | Size of the detected file in bytes. |
| file_type | The file type of the detected or quarantined file. |
| file_type_category | Description of the file category. |
| file_type_category_id | Numeric identifier for the file category. |
| file_type_id | ID number that maps to the file type. |
| http_response_code | The response code given to the HTTP request in the event. |
| instance_id | Numerical ID of the Snort instance on the managed device that generated the event. |
| netmap_num | Netmap ID for the domain on which the event was detected. |
| policy_uuid | Identification number that acts as a unique identifier for the access control policy that triggered the event. |

Table 10-2 file_event Fields (continued)

| Field | Description |
|---------------------|---|
| sandboxed | Indicates whether the file was sent for dynamic analysis. Possible values are: <ul style="list-style-type: none"> • Sent for Analysis • Failed to Send • File Size is Too Small • File Size is Too Large • Sent for Analysis • Analysis Complete • Failure (Network Issue) • Failure (Rate Limit) • Failure (File Too Large) • Failure (File Read Error) • Failure (Internal Library Error) • File Not Sent, Disposition Unavailable • Failure (Cannot Run File) • Failure (Analysis Timeout) • File Not Supported |
| score | A numeric value from 0 to 100 based on the potentially malicious behaviors observed during dynamic analysis. |
| security_context | Description of the security context (virtual firewall) that the traffic passed through. Note that the system only populates this field for ASA FirePOWER devices in multi-context mode. |
| sensor_address | A binary representation of the IP address of the device that provided the event. |
| sensor_id | ID for the device that provided the event. |
| sensor_name | The text name of the managed device that generated the event record. This field is null when the event refers to the reporting device itself, rather than to a connected device. |
| sensor_uuid | A unique identifier for the managed device, or 0 if sensor_name is null. |
| signature_processed | Indicated whether the file's signature was processed. |
| src_continent_name | The name of the continent of the source host. <ul style="list-style-type: none"> ** — Unknown na — North America as — Asia af — Africa eu — Europe sa — South America au — Australia an — Antarctica |

Table 10-2 *file_event Fields (continued)*

| Field | Description |
|-------------------------------|--|
| src_country_id | Code for the country of the source host. |
| src_country_name | Name of the country of the source host. |
| src_ip_address_v6 | Field deprecated in Version 5.2. Returns null for all queries. |
| src_ipaddr | A binary representation of the IPv4 or IPv6 address of the source host involved in the triggering event. |
| src_port | Port number for the source of the connection. |
| ssl_issuer_common_name | Issuer Common Name from the SSL certificate. This is typically the host and domain name of the certificate issuer, but may contain other information. |
| ssl_issuer_country | The country of the SSL certificate issuer. |
| ssl_issuer_organization | The organization of the SSL certificate issuer. |
| ssl_issuer_organization_unit | The organizational unit of the SSL certificate issuer. |
| ssl_serial_number | The serial number of the SSL certificate, assigned by the issuing CA. |
| ssl_subject_common_name | Subject Common name from the SSL certificate. This is typically the host and domain name of the certificate subject, but may contain other information. |
| ssl_subject_country | The country of the SSL certificate subject. |
| ssl_subject_organization | The organization of the SSL certificate subject. |
| ssl_subject_organization_unit | The organizational unit of the SSL certificate subject. |
| storage | The storage status of the file. Possible values are: <ul style="list-style-type: none"> • File Stored • Unable to Store File • File Size is Too Large • File Size is Too Small • Unable to Store File • File Not Stored, Disposition Unavailable |
| threat_name | Name of the threat. |
| timestamp | UNIX timestamp when enough of the file has been transmitted to identify the file type. |
| url | URL of the file source. |
| user_id | The internal identification number for the destination user; that is, the user who last logged into the destination host before the event occurred. |
| username | Name associated with the user_id. |
| web_application_id | The internal identification number for the web application, if applicable. |
| web_application_name | Name of the web application, if applicable. |

file_event Joins

The following table describes the joins you can perform on the `file_event` table.

Table 10-3 file_event Joins

| You can join this table on... | And... |
|-------------------------------|---|
| application_id | application_info.application_id application_host_map.application_id application_tag_map.application_id rna_host_service_info.application_protocol_id rna_host_client_app_payload.web_application_id rna_host_client_app_payload.client_application_id rna_host_client_app.client_application_id rna_host_client_app.application_protocol_id rna_host_service_payload.web_application_id |

file_event Sample Query

The following query returns up to 10 file events with the application name, connection information, and file name, where the disposition is not CLEAN.

```
SELECT file_event.application_name, file_event.connection_sec, file_event.counter,
file_event.file_name
FROM file_event
WHERE file_event.disposition != "CLEAN" limit 10;
```