

**Remote Control System**

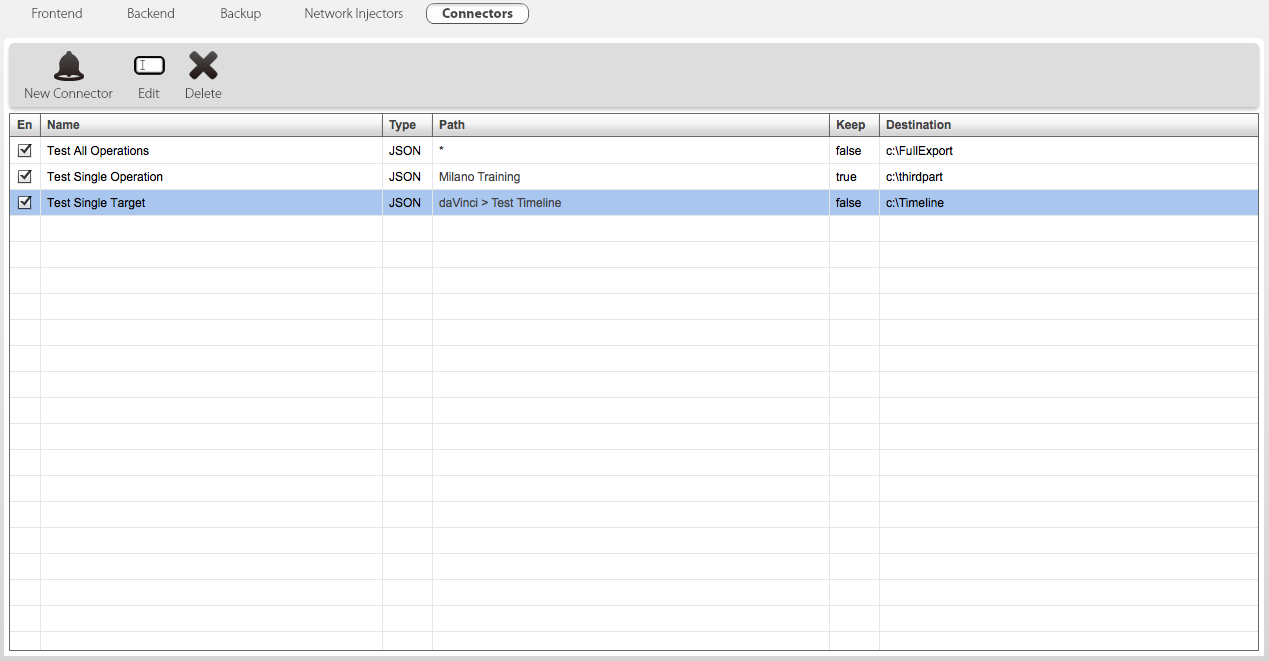
Da Vinci

Integration with third party evidence analyzers

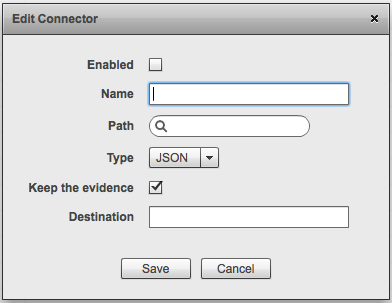
Ver 8.3.0

Configuration:

To configure the RCS system to export the evidence to a third party solution, you must configure a connector. Under the “System > Connectors” section you will find all the rules configured in the system.



It is possible to have different rules for different operations or targets. When you create a new rule a form like this will appear:



Each rule is composed by:

**Name**: Customizable name for the rule

**Path**: The operation or target that has to be exported, you can leave it blank to export all the operations

**Type**: The export type. Currently supported only JSON

**Keep the evidence**: Controls whether the evidence is stored in the RCS DB or not. If you want to save disk space and you will not use the RCS console to analyze the evidence, you can safely uncheck it.

**Destination**: The destination directory of the export

Directory structure:

Each exported evidence is stored in a hierarchical structure on the filesystem. The first level is represented by the operation, the second level is the target, the third level is the agent.

Every directory is made up of the name of the object plus the global unique id. Example:

operation-4f86902a2afb6512a7000033

-> target-4f86902a2afb6512a700006f

-> agent-4fd1a76d2afb65a3cc000039

The evidence are saved inside the agent directory and the name of the file is the unique id of the evidence (the same as the \_id inside the json format).

For each evidence the connector create one or two files with the same name. The file with extension “.json” is always created and represents the metadata of the evidence. If the evidence has a binary content (es: screenshot, camera, call, etc) another file with the same name is created but the extension will be “.bin”. If the “\_bin\_size” field in the “data” hash of the json file is present, it is a confirmation that the corresponding bin file has been created as well. The bin file contains the raw binary data of the evidence.

JSON Common fields:

Every exported evidence has a common json structure. The common structure is made up of 9 fields:

|  |  |  |
| --- | --- | --- |
| **NAME** | **TYPE** | **DESCRIPTION** |
| \_id | Global unique id | A unique id that identifies the evidence itself |
| da | Unix timestamp | Date of acquisition of the evidence (on the target device) UTC |
| dr | Unix timestamp | Date of reception of the evidence (on the collector) UTC |
| aid | Global unique id | Unique id of the agent which generated the evidence |
| tid | Global unique id | Unique id of the target which generated the evidence |
| oid | Global unique id | Unique id of the operation containing the target |
| agent | string | Name of the agent |
| target | string | Name of the target |
| operation | string | Name of the operation |
| type | string | The type of the evidence |
| rel | integer | The relevance of the evidence (0 to 4) |
| blo | boolean | Always false in exported evidence |
| note | string | Always empty (“”) in exported evidence |
| data | hash | The metadata of the evidence, differs based on “type”. |

Example:

{

"\_id": { "$oid" : "4FD9AFD02AFB6514F7000002" },

"da": 1339658104,

"dr": 1339658250,

"aid": "4fd1a76d2afb65a3cc000039",

"type": "file",

"rel": 0,

"blo": false,

"data": { },

"note": ""

}

JSON Specific fields:

For each evidence the field “data” may have different fields based on the “type” of the evidence. There may be other fields that are not relevant to the export itself but they can be present. The input parser of the third party solution that import the evidence should be resistant to the addition or deletion of the fields in the exported structure.

**ADDRESSBOOK**:

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| name | string | The name of the contact |
| contact | string | The email address |
| info | string | Extended info about the contact |
| program | string | The program where the contact was taken from |
| type | string | The kind of the contact |
| handle | string | The unique identifier for that digital identity |

**APPLICATION:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| program | string | The name of the application |
| action | string | ‘start’ or ‘stop’ |
| desc | string | Description of the application |

**CALENDAR:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| event | string | The name of the event |
| begin | unix timestamp | Beginning date of the event |
| end | unix timestamp | Ending date of the event |
| Info | string | extended info about the event |

**CALL LIST:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| from | string | The caller |
| from\_display | string | The name of the caller |
| rcpt | string | The callee |
| rcpt\_display | string | The name of the callee |
| program | string | The program from which the call was recorded |
| incoming | integer | Flag to know if the call is incoming or not (0 or 1) |
| duration | integer | Duration of the conversation (in seconds) |

**CALL:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| peer | string | The peer of the call |
| program | string | The program from which the call was recorded |
| status | string | The status of the call (should always be empty) |
| duration | integer | Duration of the conversation (in seconds) |

**CAMERA:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| - | - | - |

**CHAT:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| program | string | Name of the program used for the chat |
| incoming | integer | Flag to know if the chat message is incoming or not (0 or 1) |
| from | string | The caller |
| from\_display | string | The name of the caller |
| rcpt | string | The callee |
| rcpt\_display | string | The name of the callee |
| content | string | The content of the chat |

**CLIPBOARD:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| program | string | The program that created the clipboard snippet |
| window | string | Title of the window of the program |
| content | string | The content of the clipboard |

**COMMAND:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| command | string | The executed command |
| content | string | The output of the executed command |

**DEVICE:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| content | string | Information about the target device |

**FILE:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| type | string | ‘open’ or ‘captured’ |
| program | string | The name of the program that opened the file |
| path | string | The full path of the file |
| size | integer | Size of the file (in bytes) |
| access | integer | Access mask |

**FILESYSTEM:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| path | string | Path of the filesystem entry |
| size | integer | Size of the file |
| attr | integer | 0 = file, 1 = empty directory, 3 = directory |

**INFO:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| content | string | The content of the info log |

**KEYLOG:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| program | string | The name of the program from which the keys are recorded |
| window | string | The title of the window |
| content | string | The recorded keystrokes |

**MESSAGE:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| type | string | ‘mail’, ‘sms’ or ‘mms’ |
| program | string | The program used to send or receive the message |
| from | string | The sender of the message |
| rcpt | string | The receiver of the message |
| cc | string | Carbon Copy |
| subject | string | Subject of the message |
| body | string | Body of the message |
| incoming | integer | Flag to know if the message is incoming or not (0 or 1) |
| attach | integer | Number of attachments |

**MIC:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| duration | integer | Duration of the recording (in seconds) |

**MOUSE:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| program | string | Name of the program |
| window | string | Title of the window |
| x | integer | Absolute x coordinate |
| y | integer | Absolute y coordinate |
| resolution | string | Screen resolution |

**PASSWORD:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| program | string | The program used to store the credentials |
| service | string | The service name |
| user | string | Username |
| pass | string | Password |

**POSITION:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| type | string | Type of the source: ‘WIFI, ‘GPS, ‘GSM, ‘CDMA’ |
| latitude | float | Latitude |
| longitude | float | Longitude |
| wifi | array | Array of hash, each composed by:   |  |  |  | | --- | --- | --- | | mac | string | The mac address of the wifi node | | sig | integer | Current signal strength measured in dBm | | bssid | string | SSID | |
| cell | hash | Hash composed of:   |  |  |  | | --- | --- | --- | | mcc | integer | Mobile Country Code (MCC for GSM and CDMA) | | mnc / sid | integer | Mobile Network Code (MNC for GSM, SID for CDMA) | | lac / nid | integer | Location Area Code (LAC for GSM, NID for CDMA) | | cid / bid | integer | Unique identifier of the cell. (CID for GSM, BID for CDMA) | | db | integer | Radio signal strength measured in dBm. | | adv | integer | Represents the distance from the cell tower. | | age | integer | The number of milliseconds since this cell was primary. | |

**PRINT:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| spool | string | Spool name (typically the file name) |

**SCREENSHOT:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| program | string | Foreground program name |
| window | string | Foreground window title |

**URL:**

|  |  |  |
| --- | --- | --- |
| **FIELD** | **TYPE** | **DESCRIPTION** |
| program | string | The name of the browser |
| url | string | The visited URL |
| title | string | Window title of the URL page |
| keywords | string | List of keywords searched on search engines |

BIN formats:

The format of the “.bin” file depends on the type of the evidence:

|  |  |
| --- | --- |
| screenshot | Jpeg image |
| mouse | Jpeg image |
| camera | Jpeg image |
| print | Jpeg image |
| call | Mp3 audio |
| mic | Mp3 audio |
| mail | Eml message |
| file | The original format of the file (can be extracted from the ‘path’ field in the json metadata) |