2024

# ASI and ODSI API Reference

REV 009

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## 2   Abstract

This document describes the service APIs for:

1.   Automated Subject Intelligence (ASI)
2.   On-Demand Subject Intelligence (ODSI)


Please review the latest intro doc first:

Captis REST API Intro - rev xxx.pdf


The ASI and ODSI APIs implement the same interface contract.

Unless otherwise noted, the difference is that the URL host and path are either **asi** or **odsi**.


For example, the ASI resolve API endpoint looks like this:

https://**asi**-api.solveacrime.com/pub/**asi**/v4/resolve?accessKey={accessKey}

And the ODSI resolve API endpoint looks like this:

https://**odsi**-api.solveacrime.com/pub/**odsi**/v4/resolve?accessKey={accessKey}


The examples provided in this document are for ASI, so if you are integrating ASI, use them directly, and if you are integrating ODSI, change the "asi" references to "odsi" as just mentioned.


## 3   APIs

### 3.1   Resolve Scan

➢   This endpoint resolves a Scan
➢   A Scan represents an instance of a Subject of Interest plus its associated matches
➢   Expects the Access Key as a URL parameter
➢   Expects the reference image as a single-part body
➢   Returns the ID of the newly created Scan, the top matches, and a pre-authenticated URL that allows viewing those matches

| Title | Resolve Scan | | |
|---|---|---|---|
| URL | https://asi-api.solveacrime.com/ pub/asi/v4/resolve?accessKey={accessKey} | | |
| Method | POST | | |
| Headers | **Required:** None. **Optional:** | | |
| | Name | Description | Example |
| | **Content-Type** | File type | image/jpeg |
| Path Params | None | | |

| URL Params | **Required:** | | |
|---|---|---|---|
| | **Name** | **Type** | **Example** |
| | accessKey | String | b7aa8657-f90c-4585-a1ac-9794b314219e |

**Optional:**

| | **Name** | **Type** | **Range** | **Example** |
|---|---|---|---|---|
| | site | String | 64 | Main Campus |
| | async | Boolean | true\|false | true<br>If true, queues the request and returns immediately |
| | camera | String | 64 | CAM153 |
| | name | String | 64 | Scan 20180705-001 |
| | minScore | Float | 0 to 100 | 90 |
| | minScoreLevel | String | HIGH<br>MEDIUM<br>LOW | HIGH |
| | maxMatches | Integer | 1 to 20 | 1 |
| | minFaceSize | Integer | 20 to 1000 pixels | 50 |
| | timeout | Integer | 5 to 120 | 10 |
| | fields | String | See "fields" below | matches |

| Request Body | Image Bytes<br>Max size: 64 GB<br>Max dimensions: unbounded<br>Min dimensions: 50px interocular<br>Image formats: bmp, gif (single frame), jpg, png, tiff, webp<br>Multi-image formats: apng , gif, mjpeg |
|---|---|

| Success Response | Code | 200 |
| --- | --- | --- |
| | Content | {<br>  "id": "67b3b847-b524-4d47-a664-28a85bf54311",<br>  "viewMatchesUrl":<br>"https://www.solveacrime.com/execute?token=e14b1578-d701-43cf-88c0-9b9bbcc18b31",<br>  "recordList": [<br>    {<br>      "match": {<br>        "id": "aec4a5ed-3e14-470d-a987-78c2d3984c53",<br>        "score": 98.099754,<br>        "scoreLevel": "HIGH"<br>      },<br>      "subject": {<br>        "id": "5d10bef567f6f41880a7c4b4",<br>        "name": "GORGODIAN, PAUL",<br>        "type": "CRIMINAL",<br>        "photo": {photoBase64}<br>      }<br>    },<br>    ...<br>  ]<br>} |
| Response codes | Standard | |

The "fields" URL parameter supports the following values:

1. "matches": resolves matches with basic fields for each subject
2. "biometrics": resolves biometrics for the reference image
3. "subjects-all": returns all fields for each subject
4. "subjects-wanted": returns the "wanted info" fields for each subject
5. "subjects-charges": returns the "charges" fields for each subject
6. "crimes": returns information about active crime records associated to this POI
7. "viewMatchesUrl": returns a pre-authenticated URL that can be used in a browser to load the SAC webapp and view matches

If processing times out, a response is returned with the Scan ID + the timedOutFlag set to true.

CURL example:

```
curl -i -X POST "https://asi-
api.solveacrime.com/pub/asi/v4/resolve?accessKey=XXX&maxMatches=5" -H "Content-Type:" --
data-binary "@6681.jpg"
```

And output:

```
HTTP/1.1 100

HTTP/1.1 200
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Pragma: no-cache
Expires: 0
Maintenance: false
X-Application-Context: SolveACrimeAPIs:sal
Content-Type: application/json;charset=UTF-8
Transfer-Encoding: chunked
Date: Tue, 07 Nov 2023 19:33:53 GMT

{
  "headers" : { },
  "body" : {
    "requestId" : "06350a6a",
    "id" : "7087c061-c489-461c-a307-1e07beeb74ad",
    "recordList" : [ {
      "match" : {
        "id" : "fcb0ee46-2973-49ae-a964-165c98b247b1",
        "score" : 100.0,
        "scoreLevel" : "HIGH",
        "subjectId" : "ad7ca148-19fb-4f4b-8b2e-a0c30f83f6c8"
      },
      "subject" : {
        "id" : "ad7ca148-19fb-4f4b-8b2e-a0c30f83f6c8",
        "name" : "Four",
        "type" : "WANTED_SUSPECT",
```

```
        "photo" : "UklGRioNAABXRUJQVlA4IB4NAADQcwCdASosAc0APpE+mEilo6ImLPa7KMASCWduMT
GLJWjagYdNn9f5RLyZtBWtlxlt/1dsYHscuOoKEcKZa4yn4XWMkK9SxgRNF2yLYTgPJ/wgovD08BYM1EhJXfY
oMmrCwZpUfXuPh/Amg9CBngyF6XzEl80rzb25GettYXvfnsSTrSnJ2GBYTS3GMyRl3JfumOxGwxMDuZvwUh8E
CHoBto2x8isOckaSeNToOq6mYIsaVe8ytTM+y0onvngj28BQ9HYwhHNRcaePTVywA4b4gNCbqAw4hRMWUfA9U
28JrkxvSJA+jIisuLxDZTgYXr5gccvnSkYnVsmsjwStLBLy/aQ8FWil9ZemfTdAOICD3h8NQsm2cpXzQFf8CY
m6Mok/RP5a4eUoD9wYCR1gr4Rer7uIoy1cXwLKqKJt6AXHiZOJ2AGsKitntcl/XHO/MD1dDZFIXUxa4prc0OT
NS85iU+EPS/ng7IKBk5twZ+yn8GzneFVbBhFk08KEC053h7c6UP40wUYa6KS1+k2WZDU5Zpcpf4ai+T7diWeg
dpnGJ4sjxy+Ebqn36ac0q/QUQlAVO3aRc6Mb4FZfa7oIGrXB968TFGXI49KmkmSjU0lsOXBsE36E42EQH1DL7
SZ4EdbvH6gZYUUx1mhsJTzswLl5rSUPhaPEYFNXYUnkepoIn1UjJES4oYLL9b7aKNWckspKThEjXRvJUi2PLo
k2RSMbsdm8/GRLFT1C9ZfDrhkJErgL3yLbgsRYe3m2MkDyUWv3ZeWdPLXFd3ifCHXOrN1NW0kvuUciL981qKf
mmONoGowasOPyS6gt3apPkMyE09DKwdXfdZPCAXPPtc1Bl5dZUPKWW7IwFvjBr7MdRLeY3IVCEqBmzrYYGX/J
dzcSvvsSnp6qRcw0t8W/FWUhQFjX7/SPS5C5Qnx4/euf4Etwk5fohgvsNQtd0+472+bAZaNwWXoMue33XcikX
QRXNZtzZnRYFb4DMLWso7/cUdZ8fhPU+UfJUcNOoox3KkyPQi0ax1jmgQ3AneimS5EfTZD0XlTOsNQM8vBdrK
teKTUVD6lLeCXz4aQGNYbfrscT70YSiqUOz5zpBjvJl2dwa44UzgG6LMeLZfeWUBlhjLCZllsQ9pnnaz0r5Ot
xVEW98mtXPnuyiPALpJdLcESnwKH95QXbiIcNzohAYmS2g5NcJNb6FJgyUMx2fcW00B2U4lMeBPSGZgSYGvRG
ab3eaCOiydm4jdGObRIywELpFih5xOg/YRGkdZsWbvjxe93PiIEbxV8dGq484hUqefqrVDd6/QJakvtyuHWmI
Y4VuyHG+5ZX7htevd8gjnILPltuwLdMTJALG/mE5fkcI2ChiWFby5D12JLQS3M5uChD7PBPBj8c6wyq/uiUUQ
XX0F03ERKNCeLDnnuoX6UsZiKX2KTEOfZuvPqjO0y05JGWlx6MptUch8qz0y1khI81vD9lX885fSp43PSzw7v
w2Scs754jGtzglLEN+Czun7hzJ4fLuR49CDnyKhxsYLCjvJ0idZtw2y4m9dOw8U2dUO5MWZkvTgDqOrRUdj3w
aZBk+r30S19aN5eM7eghMpozNIkMjAgleHurDEwBIxzXCBIYveKwS3ajRpU1t+tnmkgvYkLtLQGD+MQ04Zdir
tczIJqTivGeDTo6+NMYRZuovkZ+LEps7MhpqPkA0np4238J+kpMc1wel3QA+EC0Sp0O51WJP1syxfg4xWzYNg
aWGFPPzKSGabkMiFZuTokFIqKeKv2z9S1vY4oJs7eM1YCIj5iKB6PSm+dicKebU9+WWQYNyfTbGhDeRoMrqHi
1A2H/sS6TkkuUGeY+qz+shOoiHGZ9RT9sGXPWwXORzl2tpULQ246Zr8TM0j+/gooByMbptFA1Beyj/i7jNsZ7
      }
    }, {
```

## 3.2  Load Scan

- ➢ This endpoint returns a Scan that was produced via a previous resolve API call
- ➢ Expects the Scan ID as a path parameter
- ➢ Expects the Access Key as a URL parameter

➢ Returns a document representing the given Scan and its matches

| Title | Load Subject |
|---|---|
| URL | https://asi-api.solveacrime.com/ pub/asi/v4/scan/{scanId}?accessKey={accessKey} |
| Method | GET |
| Headers | None |
| Additional Headers | None |
| Path Params | None |
| URL Params | **Required:** |
| | **Optional:** |
| Request Body | |

**Required:**

| Name | Type | Example |
|---|---|---|
| **accessKey** | String | b7aa8657-f90c-4585-a1ac-9794b314219e |

**Optional:**

| Name | Type | Range | Example |
|---|---|---|---|
| **fields** | String | See "fields" in the "Resolve Scan" section | matches |

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| Success Response | Code | 200 |
| --- | --- | --- |
| | Content | ```json<br>{<br>  "requestId" : "e927200d",<br>  "statusCode" : 200,<br>  "scan" : {<br>   "id" : "bfff372e-8492-4bab-87f5-86e9bf48c8a5",<br>   "photo" : "UklGRtgHA...",<br>   "biometrics" : {<br>    "x" : 0.41051137,<br>    "y" : 0.31041667,<br>    "w" : 0.2911932,<br>    "h" : 0.42708334,<br>    "quality" : 83.8526,<br>    "age" : 25,<br>    "femaleScore" : 97.19136,<br>    ...<br>   },<br>   "recordList" : [ {<br>    "match" : {<br>     "id" : "210496e5-3188-4e66-909a-fe7f5eab1f49",<br>     "score" : 99.45784,<br>     "scoreLevel" : "HIGH",<br>     "subjectId" : "6b2c05f2-a891-45ac-9a0c-a1d3c96a31b4"<br>    },<br>    "subject" : {<br>     "id" : "6b2c05f2-a891-45ac-9a0c-a1d3c96a31b4",<br>     "name" : "Jack Black",<br>     "type" : "BANNED_INDIVIDUAL",<br>     "photo" : "UklGRqoMAAB..."<br>    }<br>   } ]<br>  }<br>}<br>``` |
| Response codes | Standard | |

CURL example:

```
curl -i -X POST "https://asi-api.solveacrime.com/pub/asi/v4/scan/XXX?accessKey=XXX"
```

## 3.3  List Scans

- ➢ This endpoint returns a List of Scans
- ➢ Expects the Access Key as a URL parameter
- ➢ Returns a document representing the list of Scans
- ➢ Supports pagination
- ➢ Returns records in newest to oldest order

| Title | Load Subject |
|---|---|
| URL | https://asi-api.solveacrime.com/ pub/asi/v4/scans?accessKey={accessKey}&camera={camera}&page=0&size=5 |
| Method | GET |
| Headers | None |
| Additional Headers | None |
| Path Params | None |

| URL Params | **Required:** | | |
|---|---|---|---|
| | **Name** | **Type** | **Example** |
| | **accessKey** | String | b7aa8657-f90c-4585-a1ac-9794b314219e |
| | **page** | Integer | Page index starting with 0 |
| | **size** | Integer | Page size, minimum = 1 |

| | **Optional:** | | | |
|---|---|---|---|---|
| | **Name** | **Type** | **Range** | **Example** |
| | **camera** | String | | CAM153 |

| Request Body | |
|---|---|

| Success Response | Code | 200 |
|---|---|---|
| | Content | (see below) |

```
{
  "recordList" : [ {
    "id" : "bfff372e-8492-4bab-87f5-86e9bf48c8a5",
    "photo" : "UklGRtgHAABX...",
    "biometrics" : {
      "x" : 0.41051137,
      "y" : 0.31041667,
      "w" : 0.2911932,
      "h" : 0.42708334,
      "quality" : 83.8526,
      "age" : 25,
      "femaleScore" : 97.19136,
      "beardedScore" : 0.0,
      "maskedScore" : 14.613906,
      "eyeglassesScore" : 0.7199903,
      "sunglassesScore" : 0.19561355,
      "originList" : [ {
        "value" : "AFRICAN",
        "score" : 0.0022920978
      }, ... ],
      "emotionList" : [ {
        "value" : "ANGER",
        "score" : 0.0011840564
      }, ... ]
    }
  } ]
}
```

| Response codes | Standard |
|---|---|

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CURL example:

```
curl -i -X POST "https://asi-api.solveacrime.com
/pub/asi/v4/scans?accessKey=XXX&page=0&size=5"
```

## 3.4  Load Subject

➢ This endpoint returns a Subject that was matched via a previous resolve API call
➢ Expects the Subject ID as a path parameter
➢ Expects the Access Key as a URL parameter
➢ Supports the crimeStatusFilter filter
➢ Returns a document representing the given Subject

| Title | Load Subject |
|---|---|
| URL | https://asi-api.solveacrime.com/ <br> pub/asi/v4/subject/{subjectId}?accessKey={accessKey} |
| Method | GET |
| Headers | None |
| Additional Headers | None |
| Path Params | None |
| URL Params | **Required:** |

**Required:**

| Name | Type | Example |
|---|---|---|
| **accessKey** | String | b7aa8657-f90c-4585-a1ac-9794b314219e |

**Optional:**

| Name | Type | Range | Example |
|---|---|---|---|
| **crimeStatusFilter** | String | | ACTIVE |

| Request Body | Image Byte Stream |
|---|---|

| Success Response | Code | 200 |
|---|---|---|
| | Content | ```json<br>{<br>  "id": "b9325c56-364f-477c-a222-88d4b9c4835d",<br>  "name": "John Brown",<br>  "type": "WANTED_SUSPECT",<br>  "photo": "...",<br>  "lastName": "Brown",<br>  "crimeList": [<br>    {<br>      "description": "Assault with a deadly weapon",<br>      "crimeType": "CRIMINAL",<br>      "date": "Jun 4, 2023 9:55:00 PM",<br>      "status": "ACTIVE"<br>    }<br>  ],<br>  "height": 71,<br>  "weight": 210,<br>  "eyeColor": "GRAY",<br>  "hairColor": "BLACK",<br>  "race": "CAUCASIAN",<br>  "gender": "MALE",<br>  "age": 35<br>}``` |
| Response codes | Standard | |

CURL example:

```
curl -i -X POST "https://asi-api.solveacrime.com /pub/asi/v4/subject/XXX?accessKey=XXX"
```

## 3.5  Load Session

➢ This endpoint returns information about the ASI session
➢ Expects the Access Key as a URL parameter
➢ Supports the locale filter
➢ Returns a document representing session information, such as the localized mappings for subject types

| Title | Load Subject |
|---|---|
| URL | https://asi-api.solveacrime.com/pub/odsi/v4/session?accessKey={accessKey} |
| Method | GET |
| Headers | None |
| Additional Headers | None |
| Path Params | None |

| URL Params | **Required:** | | | |
|---|---|---|---|---|
| | **Name** | **Type** | **Example** | |
| | accessKey | String | b7aa8657-f90c-4585-a1ac-9794b314219e | |
| | **Optional:** | | | |
| | **Name** | **Type** | **Range** | **Example** |
| | locale | String | | "en_US" |
| Request Body | Image Byte Stream | | | |

| Success Response | Code | 200 |
| --- | --- | --- |
| | Content | <pre>{<br>  "subjectTypeList" : [ {<br>    "value" : "CRIMINAL_RECORD",<br>    "text" : "Criminal Record"<br>  }, {<br>    "value" : "EP",<br>    "text" : "Exposed Person"<br>  }, {<br>    "value" : "MISSING_PERSONS",<br>    "text" : "Missing Persons"<br>  }, {<br>    "value" : "POTENTIAL_MISSING_PERSONS",<br>    "text" : "Potential Missing Persons"<br>  }, {<br>    "value" : "PEPS",<br>    "text" : "Peps"<br>  }, {<br>    "value" : "SEX_OFFENDER",<br>    "text" : "Sex Offender"<br>  }, {<br>    "value" : "WANTED_SUSPECT",<br>    "text" : "Wanted Suspect"<br>  }, {<br>    "value" : "TERRORIST",<br>    "text" : "Terrorist"<br>  }, {<br>    "value" : "SANCTIONED",<br>    "text" : "Sanctioned"<br>  }, {<br>    "value" : "BANNED_INDIVIDUAL",<br>    "text" : "Banned Individual"<br>  }, {<br>    "value" : "UNIDENTIFIED",<br>    "text" : "Unidentified"<br>  }, {<br>    "value" : "VICTIM",<br>    "text" : "Victim"<br>  }, {<br>    "value" : "OTHER",<br>    "text" : "Other"<br>  } ]<br>}</pre> |
| Response codes | Standard | |

CURL example:

```
curl -k -i -X GET "https://odsi-
api.solveacrime.com/pub/odsi/v4/session?accessKey=XXX&locale=en_US"
```

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