



Call Data Expert

Getting Started with Detective

Process and analyze call data records obtained from wireless providers, visualize geo coordinates on the map, and identify links between callers.

The built-in Oxygen Forensic CDR Expert allows importing and analyzing of CDR files received from mobile service providers regardless of the difference in their column formats and file layouts. The program conveniently guides the investigator through the process of call data records file importing and any field mapping that is required to convert the file into a unified format. CDR Expert then visualizes direct and indirect links between callers on a graph.

Oxygen Forensic® Call Data Expert 1.0.0.3019

new template | Unnamed temp... | template mapping rules | template filtering rules

Home

Create a new template
Drag and drop fields or double-click on the required field below.

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Main fields

1

Caller A
number
Caller's phone

Caller B
number
Caller's phone

Direction
Event direction

Event type
Event type (SMS, Cal, MMS, GPRS, etc)

Date & Time
Event date and time

Additional fields

3

Duration
Event duration in seconds

Latitude
Geo coordinates

Longitude
Geo coordinates

IMEI (Caller A)
International Mobile Equipment Identity

IMEI (Caller B)
International Mobile Equipment Identity

Other fields

IMS I (Caller A)
International Mobile Subscriber Identity

IMS I (Caller B)
International Mobile Subscriber Identity

First cell tower ID (Caller A)
Unique first cell tower identifier

First cell tower ID (Caller B)
Unique first cell tower identifier

First cell tower address (Caller A)
Address of the first cell tower

First cell tower address (Caller B)
Address of the first cell tower

Last cell tower ID (Caller A)
Unique last cell tower identifier

Last cell tower ID (Caller B)
Unique last cell tower identifier

Last cell tower address (Caller A)
Address of the last cell tower

Last cell tower address (Caller B)
Address of the last cell tower

Source file: CDR_case36794.xls | Sheets: 1 Rows: 126

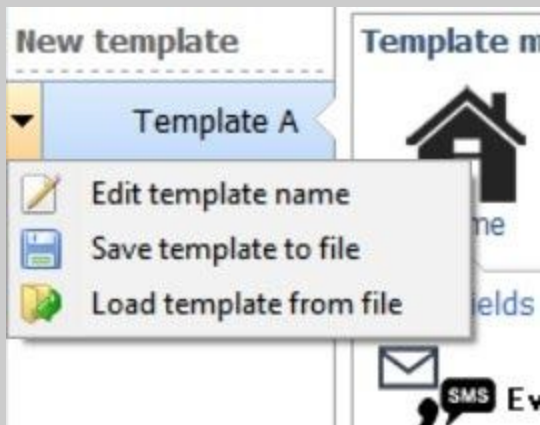
Preview	A	B	C	D	E	F	G	H	I	J
	Network Element ID	Mobile Directory N...	Dialed Digit Number	Call Direction	Seizure Dt Tm	Seizure Duration	First Serving Cell S...	Last Serving Cell S...	Latitude	Longitude
1										
2	Raleigh	7038882327	8779699436	Outgoing	10/6/2019 11:49:02 AM	32	702	702	35.770533	-78.780844
3	Raleigh	7038882327	3345550100	Incoming	10/6/2019 11:49:48 AM	59	702	428	35.770533	-78.780844
4	Raleigh	7038882327	7038882327	Missed	10/6/2019 11:50:41 AM	25	702	428	35.770533	-78.780844
5	Raleigh	7038882327	8779699436	Outgoing	10/6/2019 8:02:42 PM	58	644	644	35.799653	-78.808217
6	Raleigh	7038882327	7038882327	Missed	10/6/2019 8:07:24 PM	39	644	644	35.799653	-78.808217
X 7	Raleigh	7038882327	3865550199	Outgoing	10/6/2019 8:58:43 PM	165	644	644	35.799653	-78.808217
8	Raleigh	7038882327	3865550199	Missed	10/6/2019 9:19:05 PM	1	322	322	35.786136	-78.792233
9	Raleigh	7038882327	8779699436	Outgoing	10/6/2019 9:19:13 PM	33	644	644	35.799653	-78.808217
10	Raleigh	7038882327	7038882327	Missed	10/6/2019 9:20:01 PM	36	322	322	35.786136	-78.792233
11	Raleigh	7038882327	7038882327	Missed	10/6/2019 10:51:07 PM	58	428	428	35.756886	-78.779992
12	Raleigh	7038882327	8779699436	Outgoing	10/7/2019 12:45:21 AM	33	428	428	35.756886	-78.779992
13	Raleigh	7038882327	8779699436	Outgoing	10/7/2019 12:10:45 PM	32	428	428	35.756886	-78.779992
14	Raleigh	7038882327	8779699436	Outgoing	10/7/2019 1:17:00 PM	33	428	428	35.756886	-78.779992
15	Raleigh	7038882327	3345550100	Outgoing	10/7/2019 1:17:46 PM	39	428	428	35.756886	-78.779992

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Languages
About Oxygen Forensic Call Data Expert

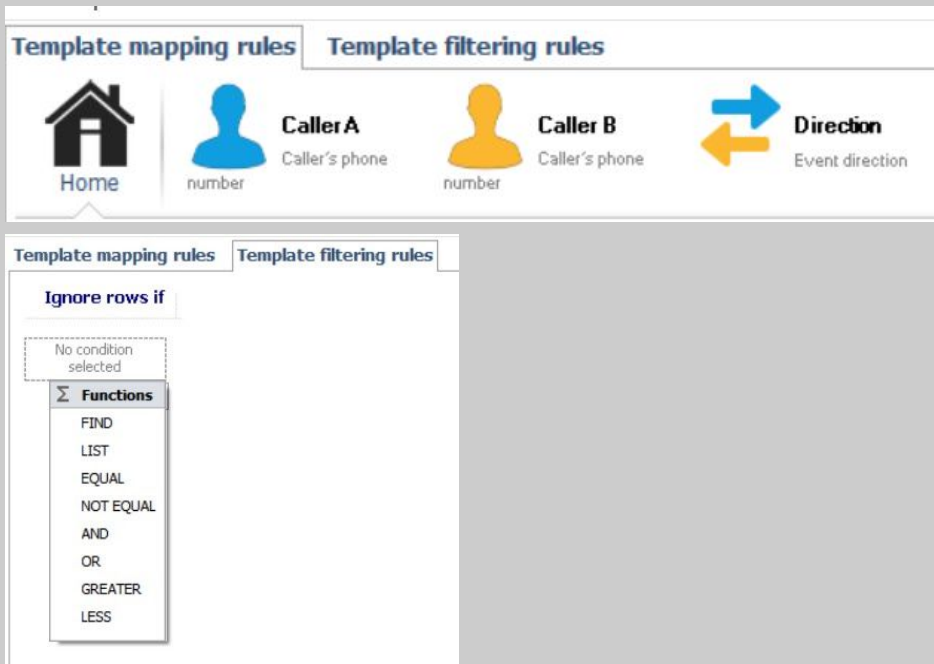
Back Import

Box 1:



- This is the location where all of your created templates will be stored. Once you've created a new template, you can save it. This is a convenient way to always have the template needed for any given network provider.
- You can also edit your template name or load a template from file.

Box 2:



Once you start populating your template, easily done by using the drag-and-drop method, the template mapping rules will reflect in this column.

Click on each rule to open the options, i.e., Caller A, Caller B, Direction, and so forth, to control how CDE reads the data you are importing.

You also have control over the template filtering rules under the "Template filtering rules" tab.

Box 3:

 **Caller A**
Caller's phone number

 **Caller B**
Caller's phone number

 **Direction**
Event direction

 **Date & Time**
Event date and time

 **Duration**
Event duration in seconds

 **Latitude**
Geo coordinates (LAT)

 **Longitude**
Geo coordinates (LNG)

 **Event type**
Event type (SMS, Call, MMS, GPRS, etc)

Additional fields

 **IMEI (Caller A)**
International Mobile Equipment Identity

 **IMEI (Caller B)**
International Mobile Equipment Identity

Other fields

 **IMSI (Caller A)**
International Mobile Subscriber Identity

 **IMSI (Caller B)**
International Mobile Subscriber Identity

 **First cell tower ID (Caller A)**
Unique first cell tower identifier

 **First cell tower ID (Caller B)**
Unique first cell tower identifier

This is where you will have all the available fields to match with the call detail records' columns to translate the data to a readable format.

All CDR's will come with some type of key or explanation on column information which will allow you to determine how to format your template.

Example:

- Column A on your CDR is the caller in which the CDR belongs to. In order to create a template that indicates such, click on your column A in the bottom of the screen (BOX 4) and drop it into the "Caller A" selection inside of Box 3.
- Continue to match your columns to the selections in Box 3 until all of your fields have been selected.
- Make sure to check your settings on each selection to correctly reflect functions.

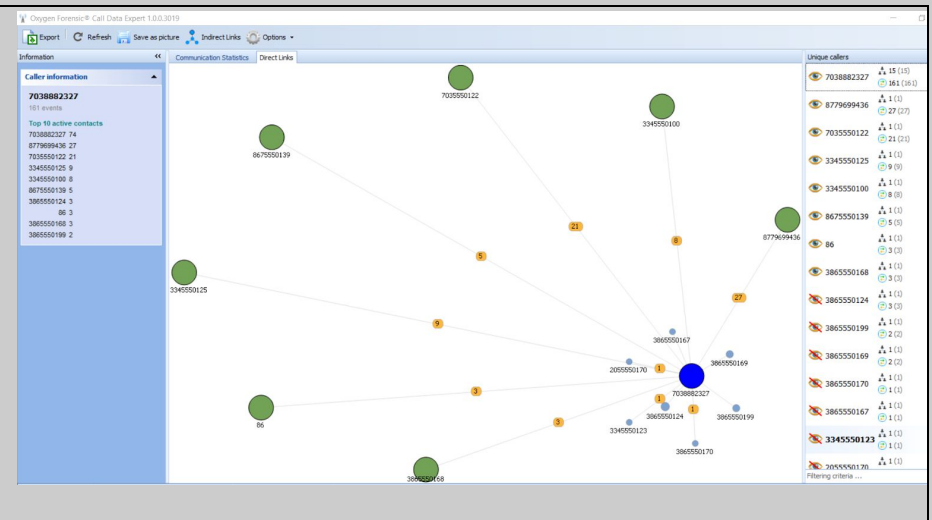
Box 4

Preview	A	B	C	D	E	F	G	H	I	J
	Network Element No.	Mobile Directory No.	Dialed Digit Number	Call Direction	Seizure DT M	Seizure Duration	First Serving Cell No.	Last Serving Cell No.	Latitude	Longitude
1	Raleigh	7038882327	8779699436	Outgoing	10/6/2019 11:49:02 AM	32	702	702	35.770533	-78.780844
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14	Raleigh	7038882327	3345550100	Outgoing	10/7/2019 1:17:46 PM	39	428	428	35.756886	-78.779992

This field will reflect the call detail report that you have imported. Now you will determine which columns belong to the above selections, i.e., Caller A, Date and Time, Duration, and so forth.

Once all of the columns have been placed correctly, you can click the Import button to complete the translation in order to view the statistics and map functions.

The Back button is to choose a different file to import.



Once you have completed the new Template (or use an existing template) and Import the CDR you will now enter the next step of the CDE. Here you will find Your Communications statistics, Direct and Indirect Links. You can also enter into Oxygen Detective Maps from this screen by clicking the Maps Icon above the CDR data.

In Oxygen Forensic Maps, view the Places, Routes, and Common Locations. See all geo coordinates displayed and add multiple layers to view commonalities, play routes and record them, then export chosen layers into a PDF for an easy to understand presentation.

Oxygen Forensic® Maps
File Export Options

Communications 125

All Time (6 October 2019 - 17 October 2019)

9 Oct 2019 10:12:54 UTC-5
N 35.839471, W 78.672004

1 route found

Time period: 9 Oct 2019 10:05:43 - 10:14:10 UTC-5 (8 min 27 sec)

Route length: 2.6 mi

Address (A):

Address (B):

Distance (feet): 6000

Time (minutes): 3

For all visible layers

View routes

158 MB | 125 points, 1 place, 1 route

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