



Special Investigation Task Force Electronic Presentation of Evidence

**SITF EPE Application
Version 1.0
Support Document**

ev-i-den-tial

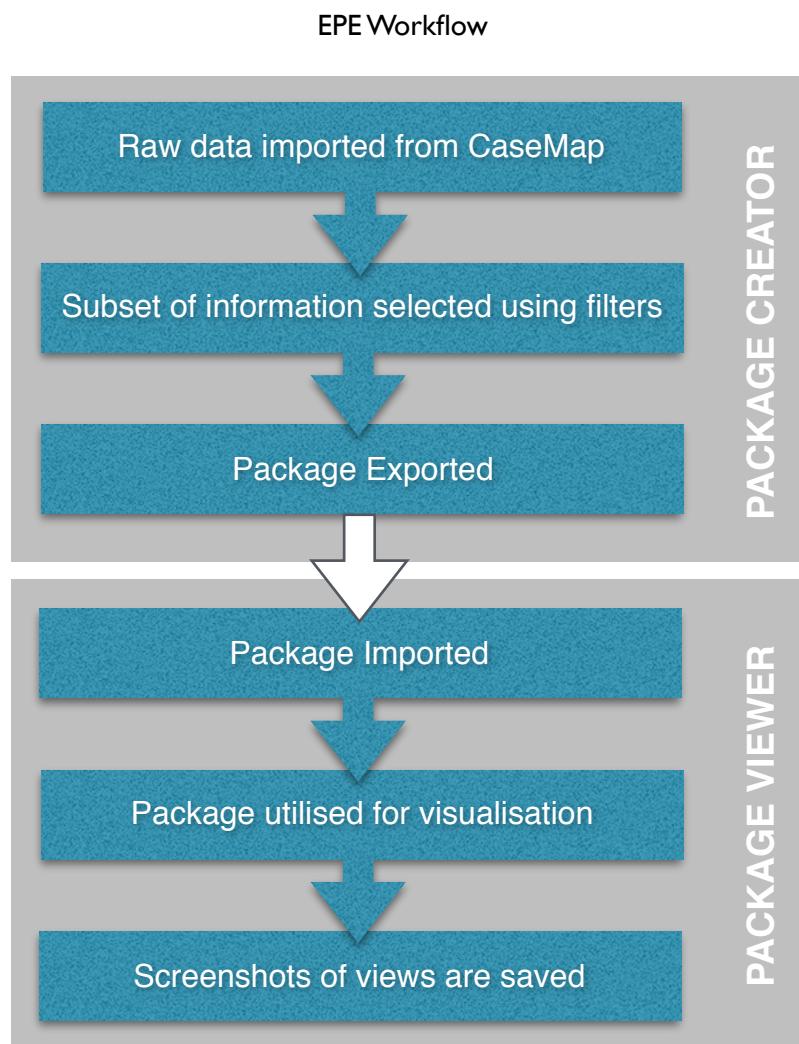
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About the SITF EPE application

The Electronic Presentation of Evidence (EPE) is proven to make significant time and cost savings when handling multimedia visual evidence during large scale investigations and court trials and tribunals.

The SITF EPE applications provides the user with all the tools to evaluate and filter large amounts of data that have been collated as part of the investigation. Having the material available in a standardised digital form along with tools to enhance the data provides the user with a powerful method of preparing, visualising and demonstrate evidence.



Online mode

The EPE Package Viewer application works in conjunction with the EPE Package Creator application. The Package Creator collates information from the Casemap repository when used in a secure networked environment. The Package Creator application allows users to identify and filter the required evidential information into an encrypted package which is suitable for external use when authorised.

Court mode

The EPE Package Viewer also has the capability for use in a courtroom, or similar, environment when connected to an additional screen or multiple screen setup.

Installing the application

The installation process is handled by the SITF IT administrators. Please contact it@sitf.eu for any installation requirements.

Compatibility

The application has been developed for the Windows platform and is therefore compliant with Windows XP, Windows 7, Windows 8 and Windows 10 operating systems.

The application supports touchscreen functionality also and is therefore compatible with Windows Surface machines.

Customisation

Elements of the application relating to the categories used can be customised by the SITF IT administrators. For further details contact it@sitf.eu.

Additional hardware - Yubikey

This application has additional layers of security applied when encrypting files therefore a hardware device known as a Yubikey is required when authorising the use of exported packages.

Additional hardware - Multiple screens

The application is compatible with dual screen capability when Court Mode (see page 16) is activated. Screens are to be connected via the desktop or laptops VGA, DVI or HDMI connections.

Additional hardware - External Hard Drives

Packages are to be stored and transported using external hard drives provided by SITF IT administration.

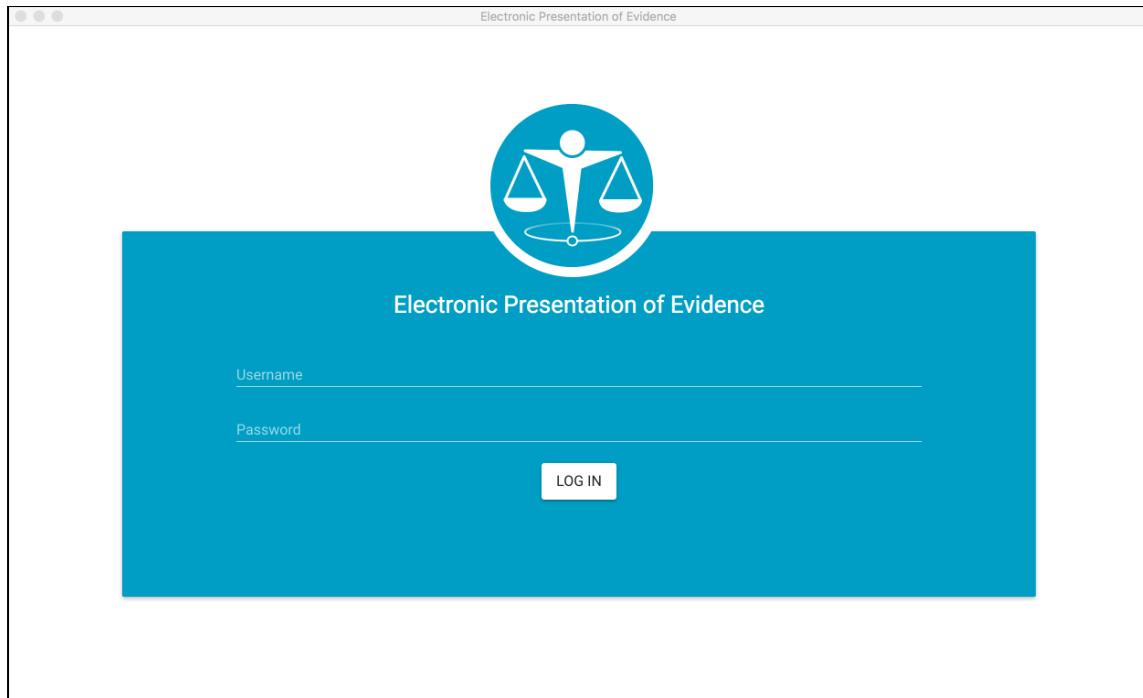
Note - The application has no Copy or Paste functionality for security reasons.

Package Creator Application

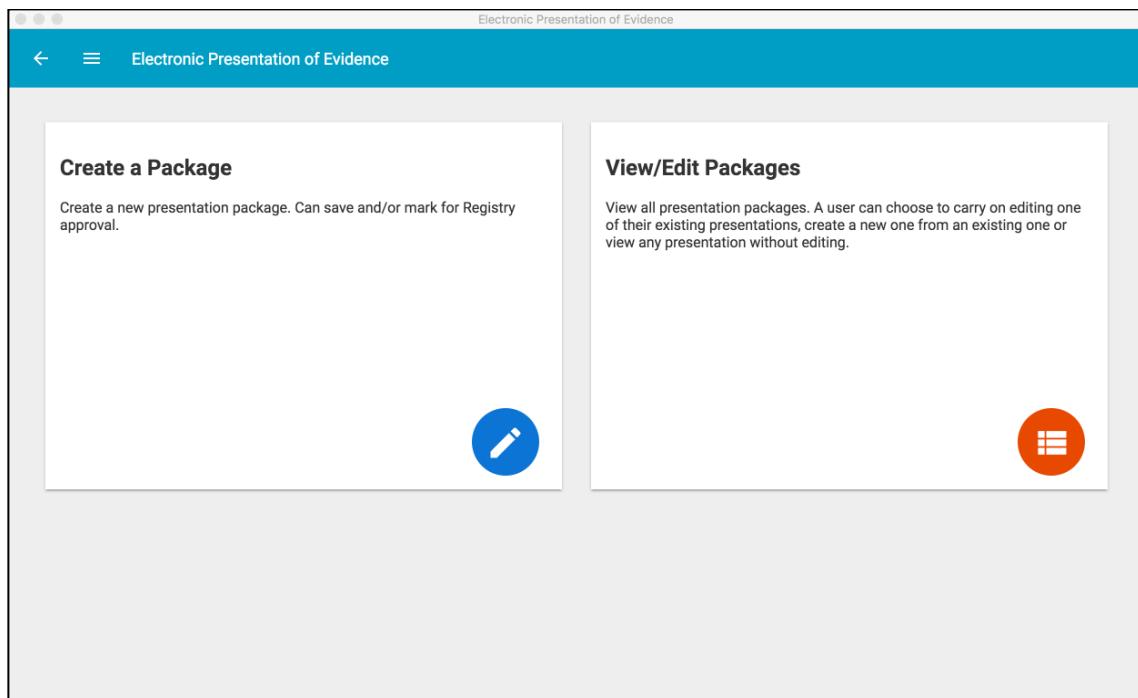


Start the application by double clicking its icon.

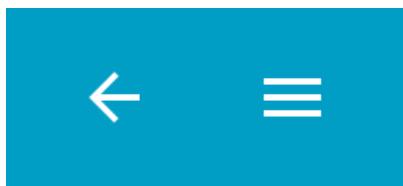
Log into the application using your SITF username and password.



Choose whether to create a new package or view existing packages.

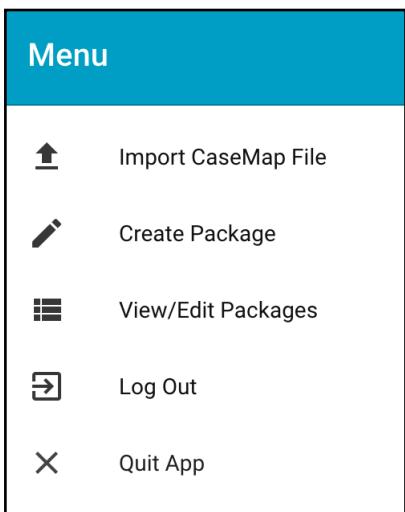


Navigation - Menu's and Icons

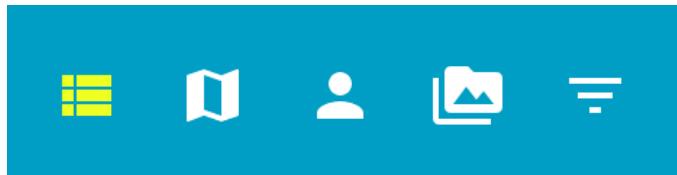


The title bar has a number of icons allowing the user to access different areas of the application.

The arrow icon allows users to step backwards through the previous pages displayed.



The drop down menu contains options to Log out of or Quit the application.



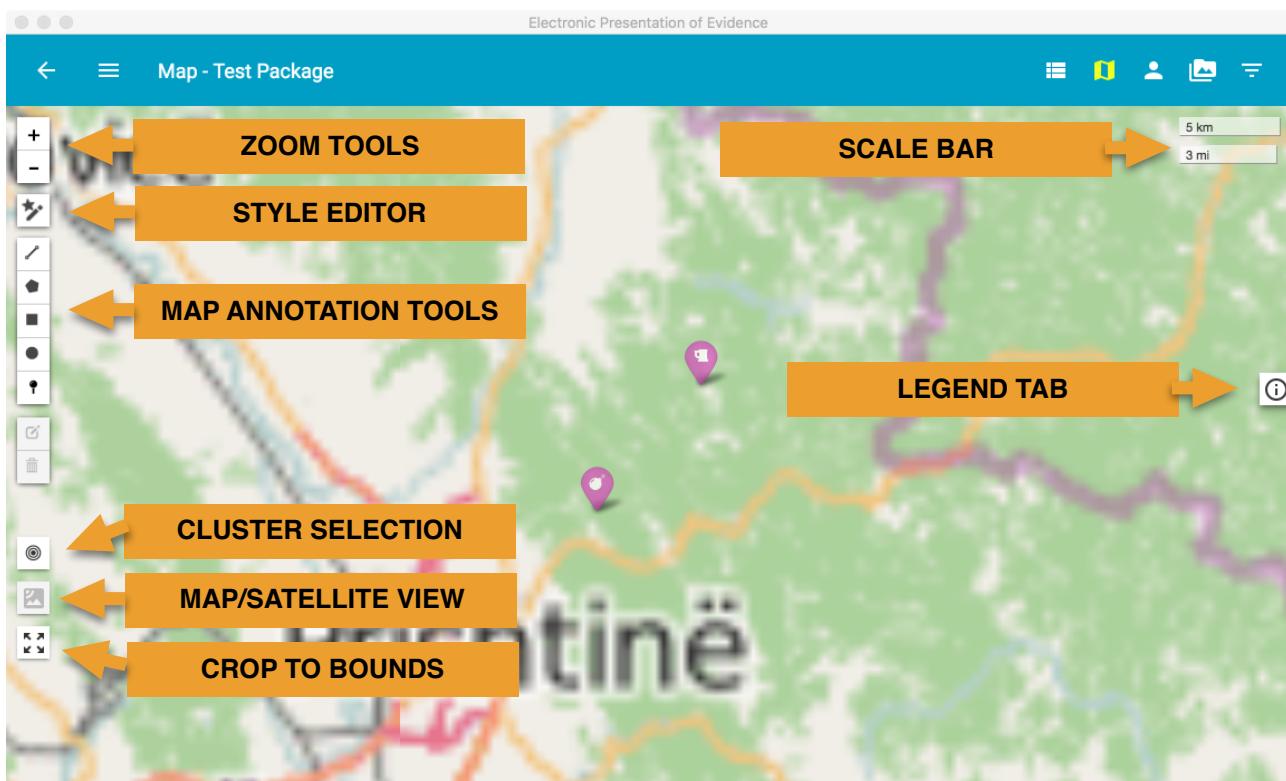
In the right corner Users can access the various sections of the application-

- Data View
- Map View
- Person Profile
- Source Material

The downward triangle icon opens the filter tab where data can be manipulated (see page 15).

Map View

The default screen for the application is the Map screen. The data is loaded and all events are shown on the map. Users have the ability to filter the data using the map view or data view (see page 15).



Map movement tools



The User can move the map by clicking within the map and can zoom in or out of the map using the +/- icons.

Map bounds

The map can be moved around freely by the User but will be restrained at the edges of the map available. A User can centre the map on the selected markers by pressing the "Crop to Bounds" button.

Annotation tools

The map view has a number of customisable features available. The user can zoom in and out of the map with ease. The User can also annotate the map using a number of drawing tools:-

Line tool - The line tool allows Users to draw lines on the map. As the line is drawn, an indicator of distance is provided.

Shape tools - A User can draw square, circle and multiple polygon shapes on the map.

Marker tool - Users can add markers to the map.

Style editor - Each of the tools above can have their colour, opacity and line changed using the style editor button. Annotations can be moved, rotated or their size changed with ease.

Annotations can also be deleted using the trashcan icon.

Scale Bar

In the right top corner of the map, a scale bar is shown that changes depending upon the zoom view shown.

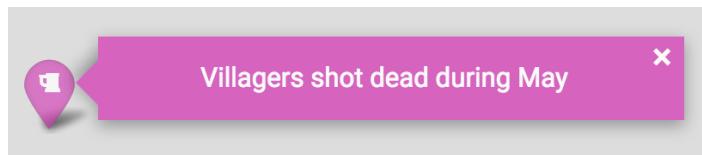
Legend

On the right hand side a legend tab can be opened which shows the legend of the categories shown on the map. The legend is configurable by SITF IT staff upon request.

Markers

Maps have markers to show where an event occurs or where a place is. Event markers are coloured depending upon their allocated event category and icons can be added to further define markers. Marker can also represent a place which does not have a relevant Event allocated to it. Place markers are shown as black markers.

Note - Events and Places can also be represented by lines and shapes as well as markers.



Information boxes

When a marker is selected by clicking on it, an information box opens. The information box initially shows the main description of the related event or alternatively the related place. A second click opens an enlarged information box which contains further Event information, place information, related people and related events details.

Event Info

Villagers shot dead during May

Vestibulum malesuada rhoncus risus quis efficitur. Nunc scelerisque tempor imperdiet. Aliquam faucibus tristique blandii. Donec sit amet dui id ligula interdum varius. Ut imperdiet erat sit amet lectus sollicitudin, eu dictum odio euismod. Cras nibh ex, ultricies a mauris at, mollis tincidunt erat. Mauris at dignissim dolor. Aliquam scelerisque, felis id accumsan facilisis, diam nibh cursus turpis, et tristique velit eros a feles.

Place Info

Villagers shot dead during May

Place Information
Rimaniste

Type: city

Kumanovo Area or Region: Kumanov Zone 3

Municipality: Albanian

Region: Prizrenski Podgor

Country: Kosovo

Person Info

Villagers shot dead during May

Related People

Suspects

Hankin

Victims

Burnham

Clusters

Where more than one event is positioned in the same location or within close proximity of others, the markers are converted into clusters. A cluster has a number to indicate how many locations are contained within the cluster and by clicking on the cluster the map will automatically zoom into the area related to that particular cluster.

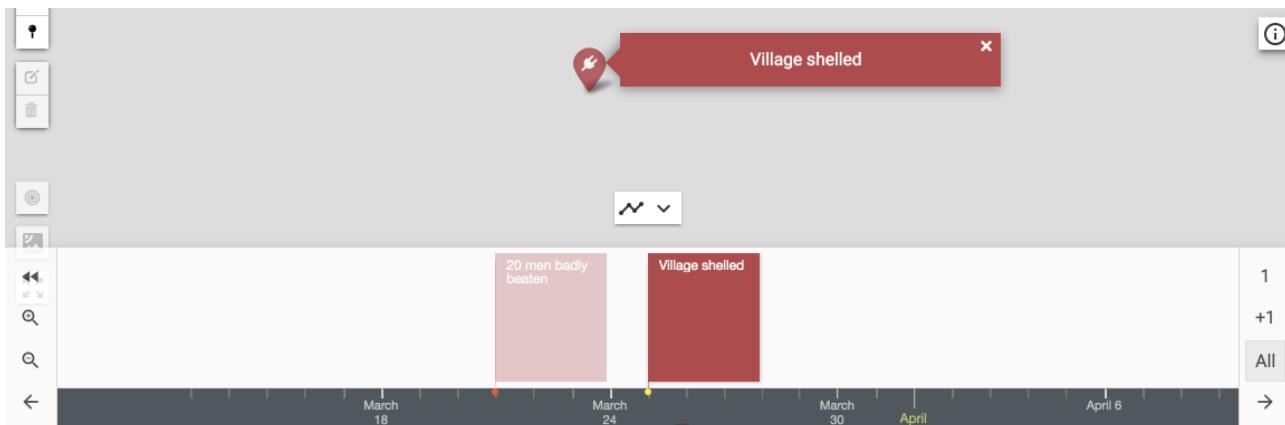


Clusters are colour coded dependant upon how many locations it contains. These are similar in style to heat maps:-

- 1 event - regular marker
- 2-9 events - green cluster
- 10-99 events - yellow cluster
- 100-999 events - red cluster

Timeline

As Events have times and dates allocated to them they are positioned on a timeline to show their place in time. The timeline can be open or closed using the timeline button located at the bottom of the map. The timeline has zoom tools which allow Users to change the time period viewed. Users can select Events by clicking markers on screen but can also select events by clicking the coloured representation of the Event in the timeline.



A User can proceed through the timeline using the Next and Previous buttons found in the corners of the map. There are three different ways to show Events:-

- Singular - Events are shown one-by-one through the chronology by using the Next and Previous tools.
- Cumulative - The map shows the current event and any previous events. When the Next button is used the numbers of markers shown on the map are added to consecutively.
- All - All events are shown on the map at the same time and can be selected or moved through by using the Next and Previous tools.

Data View

The data view has four tabs available to the User-

- Events
- Places
- People
- Source

Each data tab has columns which can be enlarged to the Users preference and the contents of columns can be ordered by clicking the arrow icon to show information in either ascending or descending order.

Data View - Events Table

The screenshot shows a mobile application interface titled "Create Package - Event". At the top, there are four tabs: EVENTS (selected), PLACES, PEOPLE, and SOURCE. Below the tabs is a table with five rows of data. Each row contains a checkbox, a full name, a type, a linked event description, suspect information, victim information, and witness information. Row 1 is selected (indicated by a checked checkbox). Row 5 is also partially visible. At the bottom of the table, there is a navigation bar with buttons for First, Previous, Next, Last, and a page number indicator (1 of 81 results).

	Full Name ▾	Type ▾	Linked Events ▲	Suspects ▾	Victims ▾	Witnesses ▾
<input checked="" type="checkbox"/>	1 Kosovo Albanian shot dead	Murder	Village shelled, 6 men killed by police [Villed]	Person A [APER]	RAHUL MANKAR [RMAN]	
<input type="checkbox"/>	Abduction and later killing of Kosovo Albanian taxi-driver	Kidnap	Serb locals and paramilitaries kill 6 [SerberA]		Rinku Keswani [RKES]	
<input type="checkbox"/>	Bomb thrown into Kosovo Albanian mini-market, killing 3	Murder	Paramilitaries attack IDPs, extort them and kill those who are not able to pay, women abducted [FromonA]	Person F [FPER], Person A [APER]	Pradeep Singh [PSIN]	MacGowan [MACG]
<input type="checkbox"/>	Forced expulsions of Kosovo Albanians, with looting, violence and random killings	Murder	Offices of a Kosovo Albanian paper burned, 1 guard killed [Offion]	Person A [APER]	ANURADHA KUCKIAN [AKUC]	
<input type="checkbox"/>	2 Kosovo Albanians abducted by the UCK	Kidnap	Large-scale violent police operations after 711 [Largce], Groure	Person A [APER]	ANURADHA KUCKIAN [AKUC]	

Where large amounts of data are listed the information is split over a number of pages which can be accessed by the indicators at the base of the view. An indication as to how many records are contained in the relevant data tab is also defined at the base of the page.

Rows can be selected using the blue tick box.

In relation to the Event and Places tabs, when selected these Events or Places are shown on the map. If not selected the Event or Place is not shown on the map.

Rules relating to the filtering of information can be found on page 13.

Data View - Place Table

	Full Name	Type	AOR_KFOR	AOR_KLA	AOR_Kumanovo	Country	Region	Municipality
<input checked="" type="checkbox"/>	Public Space in Lukare	public space			Kosovo	Kosovo Pomoravlje	Albanian	
<input checked="" type="checkbox"/>	Pristina Cinema	commercial		Kumanov Zone 3	Kosovo	Kosovo Pomoravlje	Albanian	
<input type="checkbox"/>	Devet Jugovica Police Station	police		KLA Zone 1	Kosovo	Prizrenski Podgor	Albanian	
<input type="checkbox"/>	Zlaz	town		Kumanov Zone 3	Kosovo	Prekoruplje	Albanian	
<input type="checkbox"/>	Vrani Do	town		Kumanov Zone 3	Kosovo	Prekoruplje	Albanian	
<input type="checkbox"/>	Sicevo	village		Kumanov Zone 3	Kosovo	Prekoruplje	Albanian	
<input type="checkbox"/>	Rimaniste	city		Kumanov Zone 3	Kosovo	Prizrenski Podgor	Albanian	
<input type="checkbox"/>	Radosevac	city	KFOR Zone 1		Kosovo	Prizrenski Podgor	Albanian	
<input type="checkbox"/>	Prugovac	town	KFOR Zone 1		Kosovo	Kosovo Pomoravlje	Albanian	
<input type="checkbox"/>	Orlovic Police Station	police		KLA Zone 2	Kosovo	Kosovo Pomoravlje	Albanian	
<input type="checkbox"/>	Orlovic	village			Kosovo	Kosovo Pomoravlje	Albanian	
<input type="checkbox"/>	Mramor	town		Kumanov Zone 1	Kosovo	Kosovo ~ ..	Albanian	

Data View - Person Table

The Person data view has the additional option to select a single row in order to view the relevant person details in the person profile section (see page 13).

	Full Name	Gender	Date Of Birth	Date Of Death	Ethnicity	Affiliation	Linked Persons
<input checked="" type="checkbox"/>	Person A	Male	1935-??-??	TBD	Albanian	PDK	Family of BPER, COFF, Clan GOFF, HOFF.
<input checked="" type="checkbox"/>	RAHUL MANKAR	Male	1983-03-05 00:00:00		Muslim	Family	KLA AOFF, HOFF, CPER.
<input checked="" type="checkbox"/>	Rowan	Male	1969-04-15 00:00:00		AKR		KLA AOFF, HOFF, CPER.
<input checked="" type="checkbox"/>	Person H	Female	1984-06-25 00:00:00		Croat		LDD FOFF
<input type="checkbox"/>	SARIKA SAWANT	Female	1978-04-06 00:00:00		Turk	AAK	KLA AOFF, HOFF, CPER.

Data View - Source Material Table

The Source Material data tab has the additional option to view items in the Source Material view by selecting the View button.

Additionally the Source material data view has colour coding applied to show the user which items have been authorised and which items have not been authorised for distribution.

Items listed in black - authorised for distribution

Items listed in red - not authorised for distribution

	Full Name	Description	Language	Approved For R...	
<input checked="" type="checkbox"/>	IMAGE03234500-03234555	Courtroom image	None	Yes	<button>VIEW</button>
<input checked="" type="checkbox"/>	IMAGE03235200-03235255	Sample - CCTV Image	English	No	<button>VIEW</button>
<input checked="" type="checkbox"/>	VIDEO002234800-02234855	Sample video - Troops begin withdrawing MP4 file	English	No	<button>VIEW</button>
<input checked="" type="checkbox"/>	VIDEO002234500-02234555	Sample MP4 - EULEX Police increase co-operation MP4 file	English	Yes	<button>VIEW</button>
<input checked="" type="checkbox"/>	DOCUM04234700-04234755	Sample - Supreme Court Judgement re: 29th Oct 2014	English	Yes	<button>VIEW</button>
<input type="checkbox"/>	AUDIO01234700-01234755	Audio test recording	English	Yes	<button>VIEW</button>
<input type="checkbox"/>	AUDIO01234600-01234655	Audio Sample - NEWS FEATURE Report on prospects	English	No	<button>VIEW</button>
<input type="checkbox"/>	AUDIO01234500-01234555	Audio test recording m4a	English	Yes	<button>VIEW</button>
<input type="checkbox"/>	DOCA-CYRILLIC	An example of a cyrillic file type	Serbian	No	<button>VIEW</button>
<input type="checkbox"/>	IMAGE03235100-03235155	Sample - NATO map Kosovo	English	No	<button>VIEW</button>
<input type="checkbox"/>	IMAGE03235000-03235055	Sample - KOSOVO force sectors 2002	English	No	<button>VIEW</button>
<input type="checkbox"/>	IMAGE03234900-03234955	Sample - Ethnic diversity Kosovo	English	No	<button>VIEW</button>
<input type="checkbox"/>	IMAGE03234800-03234855	JPEG File - Image 3	English	No	<button>VIEW</button>

Person Profile

The Person Profile view shows details of individuals selected in the Data Table View or alternatively via the links from a marker information box.

The Person Profile view shows an image of the individual along with the relevant information for the chosen individual. This information originates from the Casemap entry for the individual.

The screenshot displays a person profile interface. On the left, there is a placeholder image of a person. To the right of the image, the name "Saumya Zingade" is displayed, followed by the identifier "'SZIN'". Below the name, the gender "Female" and age "34 years old" are listed. Underneath this information are four data fields: "Date of Birth -" (with a placeholder value), "Date of Death -" (empty), "Ethnicity -" (empty), and "Affiliations -" (with a placeholder value "SLS"). At the bottom of this section, there is a block of placeholder Latin text: "Nulla facilis. Nunc eu mauris enim. Nullam nisl nunc, malesuada nec vestibulum sit amet, molestie in tellus. Nam eu iaculis augue. Praesent dignissim ante metus, id ornare neque blandit sed. Cras accumsan lorem ac consectetur porttitor. Quisque fermentum nisi et scelerisque laoreet. Maecenas commodo vulputate bibendum. Pellentesque blandit posuere purus, ut pretium magna aliquet eu. Sed efficitur felis ligula, sit amet bibendum quam auctor et. Maecenas vulputate rhoncus odio ut euismod. Donec feugiat lacus id nunc dignissim semper. Quisque nec nunc turpis. Pellentesque convallis sollicitudin nibh eu faucibus." On the far right, there is a vertical navigation bar with tabs for "AFFILIATIONS", "EVENTS", and "SOURCE". The "AFFILIATIONS" tab is currently selected, showing a single item: "Alliance for the Future of Kosovo" with a small thumbnail image and the label "Officer B".

In addition, on the right side of the screen, there is a section where related events/people/sources can be seen that are linked to the individual displayed. These sections can be clicked and the User will be taken to either an event on the map, a different person profile or a type of source material.

Source View

There are 4 different types of evidence source material that can be displayed within the application:-

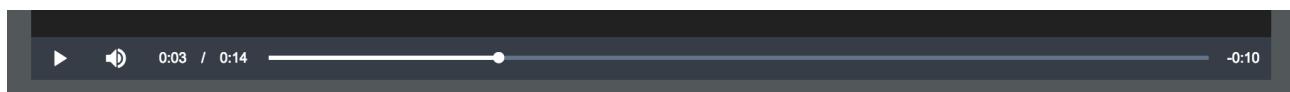
- Video files (.mp4, .mov)
- Audio (.mp3, .aac)
- Document (.pdf)
- Image (.jpg, .png)

Each media type is displayed by either selecting the View button on the Source Material Data Table view or alternatively via the related Events section of the map Event information box or the Person Profile related Events.

Source material shown has the identified reference shown along with any accompanying description.



Media types have a number of different tools available to the User.



Audio files are limited to playback tools which provide the ability to play and pause the audio file along with a counter to identify the duration.

Electronic Presentation of Evidence

Supporting Evidence - Category 1 events in Prisitina

IMAGE03235200-03235255

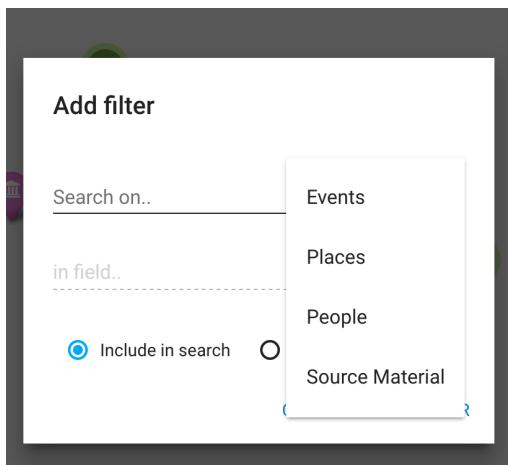
Sample - CCTV Image

The video and image media types allow users to annotate circles, squares, text and lines overlaid on the image. Such annotations can be adjusted using the style editor and can also be deleted if necessary.

Similar capabilities are available with document (i.e. pdf files) along with additional search capabilities for text terms within documents.

Filtering/Relationships

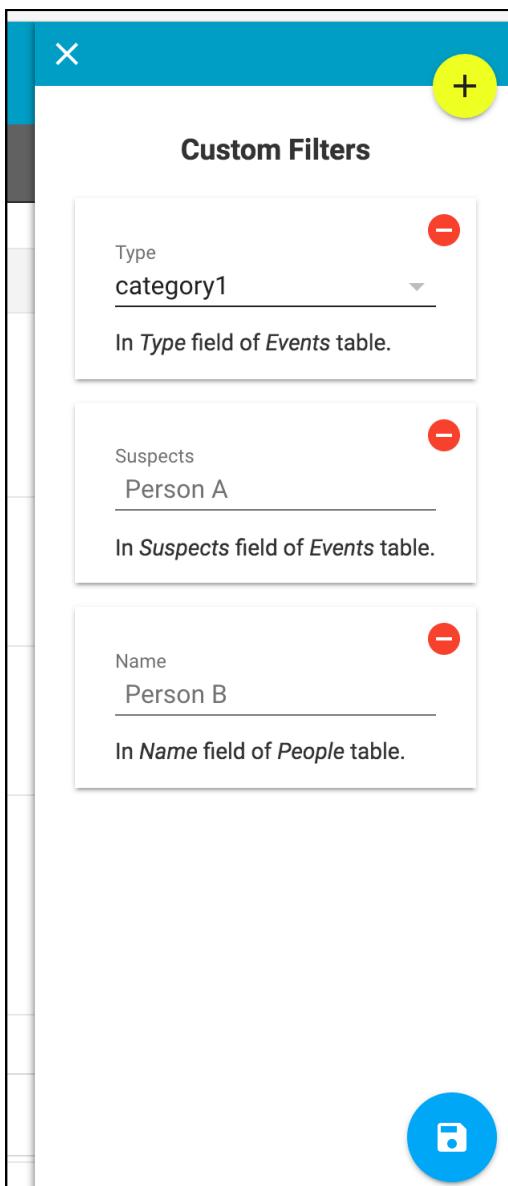
The Package data can be filtered in either the Data View or the Map View. The results will be applied accordingly to both the data list and the map view.



The filter tab is accessed by pressing the downward arrow in the top right corner of the screen. Up to 99 filters can be added using the + button. When selected a dialog box appears asking the User to identify the specifics of the required filter.

The filter term can be used as an inclusive search term or as an exclusive search term.

Once the parameters of the search are defined, the filter option is added to the left hand panel awaiting further entry.



By adding descriptive terms or by selecting defined options from drop down lists the data view and map view update automatically to show the results of the searches applied.

Filters can be deleted using the - button.

Relationships

The selection of information rows works on an applied set of rules/relationships when returning results:-

With the Events category being an important driver of the information, a selected event within the Event data group will have an impact upon the identification of related items in the Places, People and Sources data groups.

These related items will become selected and the application will automatically re-order the selected items to appear at the top of the relevant data group; remaining items will not be selected but will remain available below these results, allowing the user, in a bespoke manner, to select further items or de-select current items.

Original Set of Data

EVENTS	PLACES	PEOPLE	SOURCES
Event A	Place 1 (related to Event A)	People 1 (related to Event B)	Source 1 (related to Event A)
Event B	Place 2 (related to Event B)	People 2 (related to Event D)	Source 2 (related to Event A, B & D)
Event C	Place 3 (related to Event A)	People 3 (related to Event C)	Source 3 (related to Event C)
Event D	Place 4 (related to Event C)	People 4 (related to Event A)	Source 4 (related to Event A & B)

Data results filtered on Event A (selected items are in bold)

EVENTS	PLACES	PEOPLE	SOURCES
Event A	Place 1 (related to Event A)	People 4 (related to Event A)	Source 1 (related to Event A)
	Place 3 (related to Event A)	People 1 (related to Event B)	Source 2 (related to Event A, B & D)
	Place 2 (related to Event B)	People 2 (related to Event D)	Source 4 (related to Event A & B)
	Place 4 (related to Event C)	People 3 (related to Event C)	Source 3 (related to Event C)

An example:-

In the Data Group of Events, “Arson” is used as a filter in the Event Type field. The Events data view would show all instances where Arson appears within the Event Type and any events that aren’t classified as Arson are not shown. By performing this search filter, the Places, People and Sources data views will adapt to this filter being applied by selecting all related places to the Event type “Arson”, all related people to the Event type “Arson” and all related source material to the Event type “Arson”. Related items will be ticked and moved to the top of each data view.

Saving Packages



The save button is located at the bottom of the filter tab.

A dialog box will appear that allows you to save the package or alternatively update an existing package.

The dialog box is titled with two options: "Save a New Package" on the left and "Update an Existing Package" on the right. Both sections have fields for "Presentation Name" (with "test2" and "Test Package" entered respectively) and "Notes (optional)" (with descriptive text about filters applied). At the bottom, there are two buttons: "SAVE PRESENTATION" on the left and "UPDATE PRESENTATION" on the right.

Save a New Package

Update an Existing Package

Or

Presentation Name
test2

Presentation Name
Test Package

Notes (optional)
An example of a package with 3 filters applied

Notes (optional)

SAVE PRESENTATION

UPDATE PRESENTATION

Authorising Packages

Once a package has been saved it is added to the View/Edit section (accessible via the drop down menu in the top left of the screen).

The screenshot shows the 'View/Edit Packages' section of the application. At the top, there are search filters for 'User' and 'Package Name'. Below the filters, two packages are listed:

- Test Package**
Created by Admin - Today at 12:50 AM
Notes:
Created as an example of a package with two filters applied
Awaiting Export ●
Contains Unapproved Source Material ○
 Mark as approved for Export
VIEW PACKAGE ● DELETE PACKAGE ●
- Category 1 events in Prisitina**
Created by User - Today at 6:46 AM
Notes:
Created as an example of a package with two filters applied
Awaiting Export ●
Contains Unapproved Source Material ○
 Mark as approved for Export
VIEW PACKAGE ● DELETE PACKAGE ●

This section lists all the packages that have been created by all Users and can be searched accordingly using the search filters.

Saved packages show the name of the package, who created the package, when the package was created and its accompanying notes. Once a User is ready to export the package the “Mark as Approved for Export” option should be ticked for Registry purposes.

The screenshot shows the 'View/Edit Packages' section of the application. The 'Category 1 events in Prisitina' package is selected. The 'Mark as approved for Export' checkbox is checked (blue checked box). The status indicators are now green: 'Awaiting Export' (green circle) and 'Contains Unapproved Source Material' (green circle with slash). Buttons for 'VIEW PACKAGE' and 'DELETE PACKAGE' are visible.

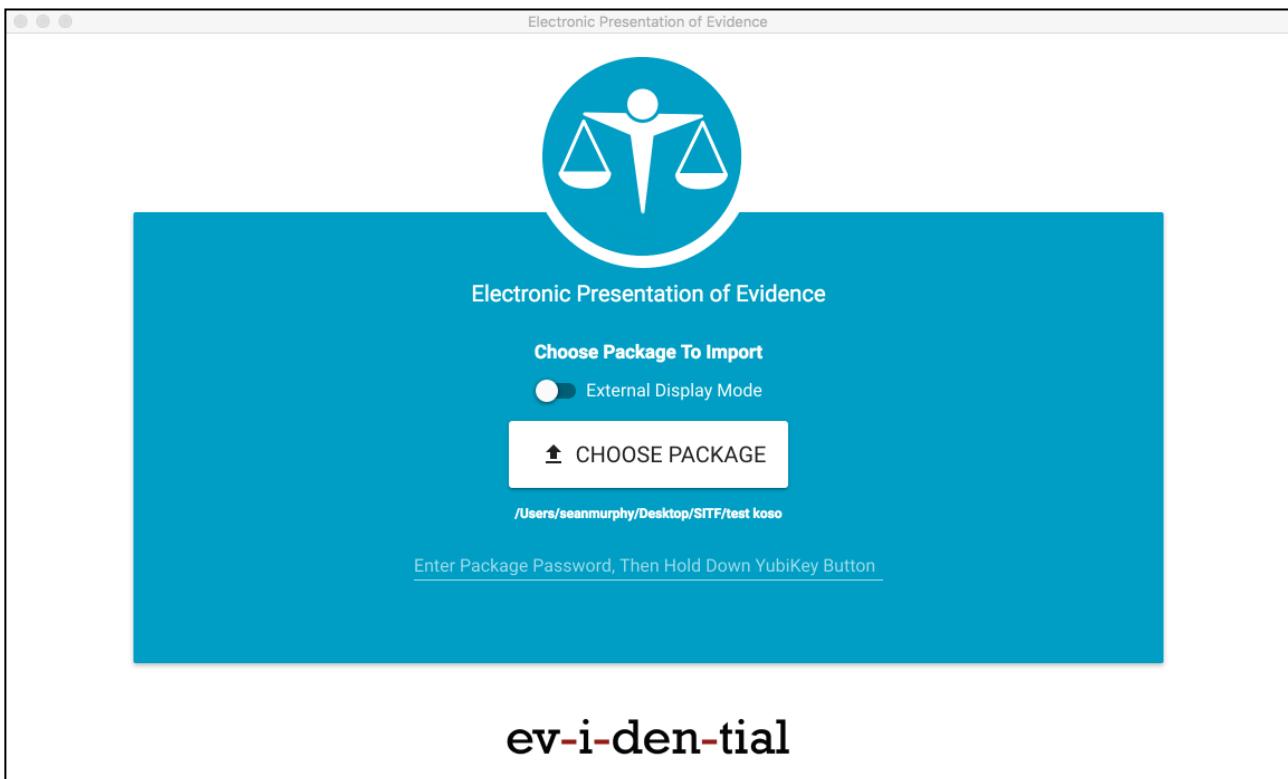
Note - Packages containing unapproved source material will be marked accordingly at this stage for your reference.

Using the Package Viewer Application



Start the application by double clicking its icon.

The applications initial package selection screen will appear and you are prompted to identify the location of the Package required to be viewed.



Once selected, the application requires a password to be entered to allow access to the application. As part of the encryption requirement, the Yubikey allocated to the package by Registry is required. Once you have entered the password press the Yubikey to complete the password process.

Upon successful password/Yubikey verification the Package will open in the application.

Please note - The application will lock and return to the log screen if the Viewer isn't used for a defined period. In order to unlock the application the password and Yubikey process will be required again.

The viewer application contains all the capabilities of the Creator Application with the additions of being able to save and export views.

Exporting views

These options are only available in EPE Package Viewer Application.

The application has two modes for exporting:-

- In-court
- Publish mode

In-court mode

When In-court option is selected the application is designed to detect whether or not an external screen is connected to the computer or laptop. If an external screen is connected, the view on screen can be published to the second screen as a static image. When pressing the In-court display button, the image created is saved to a user determined place on the computer and a filename is created before displaying the image on the second screen.

Publish mode

When the In-court is not selected, the application reverts to Publish mode where screen views can be exported to be saved to a user determined directory.

Exported logs

The screenshots captured when saving viewpoints in either In-court or Publish mode consist of a two page pdf file. On page 1 is the image captured at point of request and on page 2 is a set of data which accompanies the image. This data relates to the information that is shown and identifies the ERN references of the material displayed. In addition to the meta data, audit information is attached that relates to the time and date of the screen capture also.

Notes

Notes

About Evidential

Evidential specialise in the production of Electronic Presentation of Evidence software applications for criminal and civil trials and tribunals.

For more information visit www.evidential.com