

Software: Association Matrix

Purpose

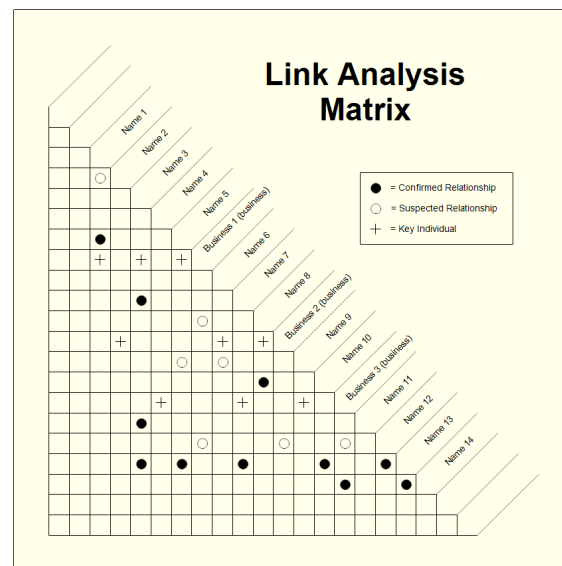
Association Matrices allow analysts to map relationships between suspects. By putting filled or empty circles on a half-grid, analysts are quickly able to discern patterns of associations.

Application parameters

1. The application runs on Windows, Windows+Mac+Linux, or is browser-based.
2. The application is a one-window utility.

Application usage

1. The application allows users to add, edit and delete suspects from the suspect list.
2. To make a connection between two suspects, the user clicks the square where the two suspects intersect, and then adds a symbol to the square.
 - a. As the user's mouse travels over the grid, the various intersections between the suspects are highlighted.
 - b. When a symbol is added, it can be a filled circle or an empty circle.
3. The chart can be saved as a file for later use.
4. The chart can be printed, with the case number and the user's name appearing in the page header, and the chart title appearing above the chart itself.



File specification

1. The application can collect and store metadata about the chart:
 - The chart's title
 - The case number
 - The user's name
2. The application saves a file, which the user can load and edit.
3. The saved file is text-based.
4. The saved file is in XML or JSON format (so files can be generated by other apps)

Application distribution

1. CISS will offer the application for download on its website.
2. The application creator can create an "About" screen and add branding and contact information.

Software: Pattern Analysis Wheel

Purpose

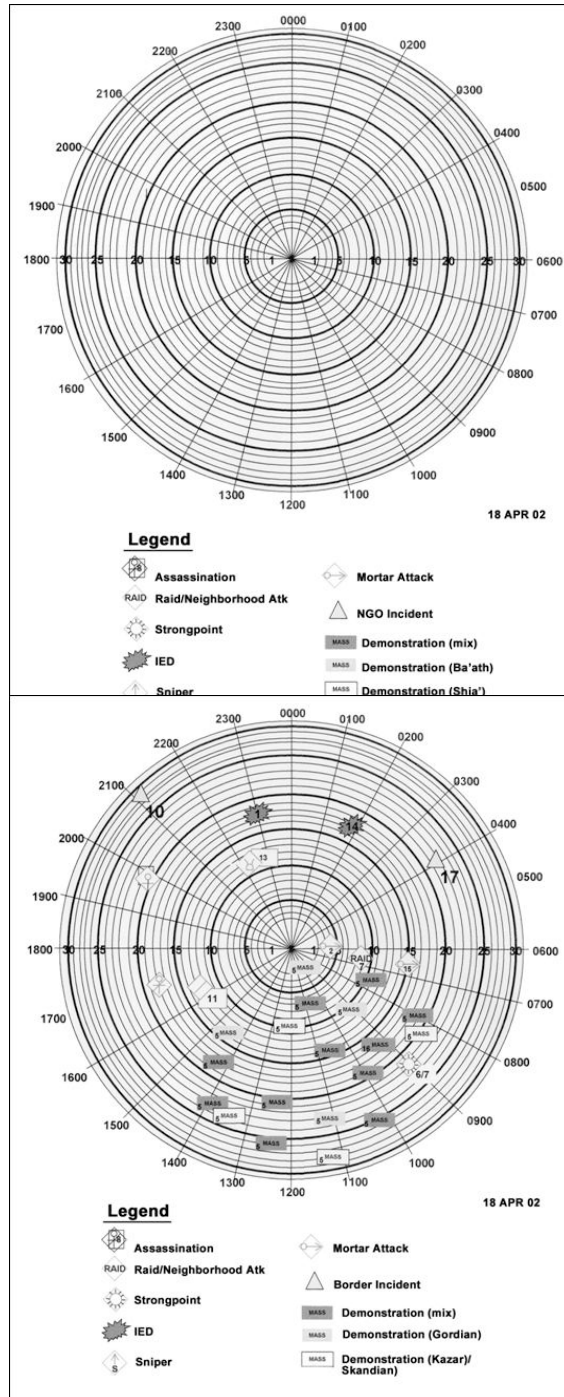
Pattern Analysis Wheels allow analysts to map time-related data and easily perceive emerging patterns.

Application parameters

1. The application runs on Windows, Windows+Mac+Linux, or is browser-based.
2. The application is a one-window utility.
3. The chart is a circle-grid
 - a. The chart has 24 radial lines representing hours 00:00 to 23:00
 - b. The chart has 30 concentric lines representing the 30 days of the month.

Application usage

1. The application allows users to add, edit and delete events on the chart.
2. The user can click an “Add new event” button to access a popup window with an input form on it.
 - a. Alternatively, if the user clicks on the chart, the application will create an event at that point, and prepopulate the timestamp when the input form appears.
3. The input form collects information about the event:
 - a. Event title
 - b. Type of event (assassination, murder, kidnapping, sighting, etc.) (pulldown menu)
 - c. Event location
 - d. Date and time of event (timestamp)
 - e. Reference number for the event



4. Each event on the chart has a unique icon showing the event type.
5. When the user puts the mouse over an event, a popup shows the event's information.
6. The user can import a CSV file to populate the chart, or paste comma-delimited data into the chart.
7. The chart can be saved as a file for later use.
8. The chart can be printed, with the case number and the user's name appearing in the page header, and the chart title appearing above the chart itself.

File specification

1. The application can collect and store metadata about the chart:
 - a. The chart's title
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Software: Link Chart

Purpose

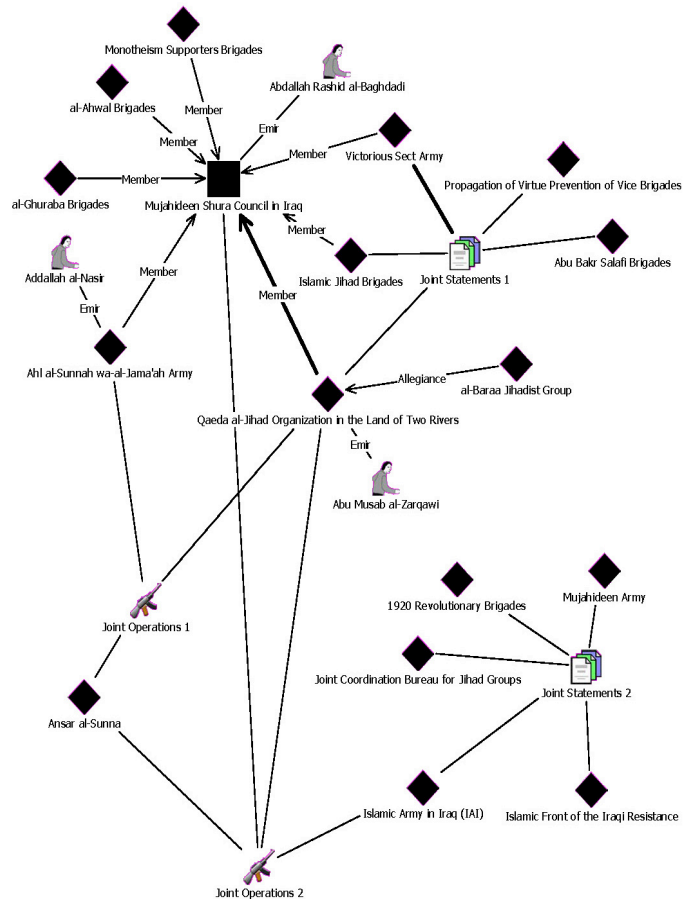
Link Charts allow analysts to view connections between entities. Entities (suspects, vehicles, bank accounts, events) can be positioned together and arranged into different groupings. Links between entities (transactions, meetings, memberships) are represented with lines of varying widths and colors.

Application parameters

1. The application runs on Windows, Windows+Mac+Linux, or is browser-based.
2. The application is a one-window utility.
3. The application will be extended with new functionality in the future.

Application usage

1. Chart elements
 - a. Users can add, edit and delete entities on the chart
 - b. Users can connect entities with links (lines)
 - c. Users can assign labels to the links and entities
 - d. Each entity and line has data associated with it
 - i. Title (60 characters)
 - ii. Timestamp (if applicable)
 - iii. Description
 - iv. Entity type (from pulldown, 30 characters)
 - v. If link, link type (from pulldown, 30 characters)
 - e. The icon for each entity will be determined by the entity type
 - f. The line width and color for each link will be determined by the link type
2. When the user puts the mouse over an entity, a popup shows the entity's information.
3. The user can import a CSV file to populate the chart
4. The chart can be saved as a file for later use.



5. The chart can be printed, with the case number and the user's name appearing in the page header, and the chart title appearing above the chart itself.

File specification

1. The application can collect and store metadata about the chart:
 - a. The chart's title
 - b. The case number
 - c. The user's name
2. The application saves a file, which the user can load and edit.
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Application distribution

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2. The application creator can create an "About" screen and add branding and contact information.