**USER INTERFACE DESIGN FOR AUTHORING EVENT/SEQUENCES**

*To be aware:*

The width of the form is likely to be slightly wider than illustrated, to accommodate required text display in fields.

*Italicisation of text indicates design features that are not an immediate priority for implementation.*

Circled and numbered notes in red, beside a red dot are not part of the UI design but markers referenced in the Notes, below.

*A display panel may later be included above the form (as in original version of form) for presentation of e.g. cells from spreadsheets, to reference and from which to transcribe.*

**Authoring Process**

An ‘Event’ (within an ‘Event Sequence’) is authored in a form through multiple steps/actions.

The first of these are action through Panels labelled A, B, C, D, down the left hand side of the the UI sketch, referencing Column 1

**Column 1**

(Illustrated with ‘Event/Operation/Sortie/AircraftSortie’ as Subject in PanelA/B)

***Panel A*** - Select the Theme or Subject of the Event/Sequence. Current options are Event/Operation, Event/Operation/Sortie, Event/Operation/AircraftSortie, Person/…, Organisation/Organiser|Circuit. The Field allows the user to select within a hierarchy of Entities (e.g. Person) and sub-entities (e.g. Person/Passenger). Select button (note 2) to proceed to/configure Panel B.

***Panel B*** - Based on selection in A, a panel then allows the user to filter down to the desired Subject for their Event/Sequence. The fields required/offered for this vary according to the selection in Panel A. The available fields for AircraftSortie, Person, Organisation are show in the three examples across the page.

***Panel C*** - This is the main panel, comprising a set of top-level fields for authoring a single Event. The fields correspond to those in the Events spreadsheet*, with an additional field ‘?’ For possible ‘prepositions’ (if required to disambiguate semantics of the field to its right: the ‘object’ of the Event).* *Date/*Location may need additional information, for which see Panel D and notes 5/7, below)

***Panel D*** - Is an (*optional?*) subsidiary panel which my be used to provide additional information about either the Time or Location of the Event. The example illustrated is for ‘Location’, which may be the only one of current concern.

**Column 2**

(Illustrated with ‘Person’ as Subject in PanelA/B)

Once an event has been Authored, it may be ‘saved’ (Note 3) or ‘collapsed’ (Note 1) into a single-line ‘summary’ and added to the SequenceList for that Theme/Subject, *either at an appropriate position in the chronological sequence (if the event has a DateTime), or else* at the top of the SequenceList .\* *Until any subsequent action is completed by the user, the newly collapsed summary Event is highlight as indicated in Note 11, below.* (Illustrated with ‘Person’ as Subject in PanelA/B)

\* The single-line ‘summary’ displays only the Event Type and DateTime fields, which are non-editable. The summaries may be expanded back out to display all fields (editable). See Note 10, below

**Column 3**

(Illustrated with ‘Organisation’ as Subject in PanelA/B)

When viewing the Event/Sequence, the user has various options to ‘author’ the relationship between Events in the Sequence.

(i) Reordering Sequence

• The user may: move an EventSummary into any position in the Sequence that does not conflict with any point that does not conflict with a DateTime that the Event in question may have been assigned (i.e.. it may go no higher in the sequence than an event with a DateTime later than its own, and no lower in the list than an event with a DateTime that is earlier than its own.

• When the button on the left of the summary (marked ’11’ in Column 3) is selected, a MovePlace bar highlights in gaps (e.g. notes 13) between other EventSummaries in the sequence where the Event in question could be placed.

• Selection of one of these bars causes the Event in question to relocate to that position in the EventSequence list.

(ii) Linking Events into Group

• An icon positioned between EventSummaries in the EventSequence (note 8 in Column 2) shows the nature of the association between EventSummaries that lie adjacent to one another in the sequence.

• The default state of the Link icon is a greyed-out diamond.

• Where there is no conflict between the TimeDates of two adjacent Events (i.e. they either shared the same TimeDate, or on does not have a full TimeDate), then the glyph will be shown as available for selection, indicated by a differentiation in appearance e.g. a yellow border (see note 16, Column 2)

• Selecting an available glyph creates an association/pairing between the two adjacent Events (and changes its colour/appearance, see note 9 in Column 2).

• Any pairing (association of only two Events) can also be broken be clicking again on the icon/glyph to toggle its status.

(iii) Event Group as Single Event

• Where multiple (two or more) adjacent Events in a Sequence are associated in this way, they form an EventGroup, which within the Event/Sequence is treated as a single event.

• Selecting any grouped Event to move in the sequence (see i, above) selects ***all*** events in the group, which will all move to any new place chosen in the Sequence (note: the spaces between Events in a selected Group do not display available NewPlace bars)

**Notes**

**(**Refer to circled and numbered notes in red, beside a red dot)

1 – Button to collapse Event into Event Summary. Automatically saves. For EventSequence showing EventSummaries, button is greyed out.

2 – Button to generate Panel B. Greyed out once Panel B is generated. Available in EventSequence to initiate authoring a new Event.

3 – Button to save Event fields, available when full event fields are showing (ie Column 1). Note: any chance in EventSequence (columns 2 and 3) is immediately saved, automatically.

4/4.1 – Date and Pilot Name are the specific fields required to filter for AircraftSortie. These will vary according to the kind of Event selected as the Theme/Subject.

*5 – This button, to the left of the Location (later also Time) field, may be used to open an expanded set of fields for Location. Initially, the additional Location panel will be permanently available as a default.*

*6 – Possible additional field to add a ‘preposition’ entity, if required, to disambiguate the ‘object’ field to its right.*

7 – Expanded Location fields, initially always available

8 – Icon for basic sequence link between EventSummaries in Event/Sequence

9 – Icon for an activated ‘association’ link between the adjacent EventSummaries on either side. Can be toggled to ‘unlink’

10 – Button to expand an EventSummary into a full and editable set of Event fields

11 – ‘Move Event’ button to left of Event Summary, for selection to show options for locations in the Sequence to which the Event can be moved.

13/15 – MovePlace bar, which appears between EventSummaries when a ‘Move Event’ button is selected, showing new places within Event/Sequence to which the Event/EventSummary may move. Clicking to select the bar moves the EventSummary to this new location

14 – Scroll bars on Notes, Quotes, Sources fields, and on whole EventSequence

16 – Icon for basic sequence link between EventSummaries in Event/Sequence, inflected to indicate compatibility of adjacent Events for linking.