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IDC Reengineering Phase 2

User Interface Storyboards Updates to Delivered E1 UIS Documents from November Feedback

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UIS Updates Since November Review (1 of 10)

Common Changes to All Storyboards Change	Action Taken / Notes
Updated title slide.	New slide is generic and lets us maintain a single slide deck for storyboards that are common to both the US NDC modernization and IDC Re-engineering projects.
Standardize presentation ordering.	Each slide deck now has the same progression of slides, starting with the Use Case Brief Description, Overview, Use Case diagram and Main Flow diagram.

Compares Event s Storyboards Proposed Change	Action Taken / Notes
Slide 7 – update note: “Use query to find events with similar location and magnitude (where “similar” is a configurable default value)”	Note updated.
Slide 22 – add a note “Comparison events show data availability at the time the event was built.”	Note added.

Controls the System Storyboards Proposed Change	Action Taken / Notes
No changes were proposed.	N/A

UIS Updates Since November Review (1 of 10)

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UIS Updates Since November Review (1 of 10)

Defines Processing Sequence Storyboards Proposed Change	Action Taken / Notes
Slide 11-22 – add file name to the display. The Top box should say “Processing Configuration - NameOfFile	Added ‘ConfigurationFilename’ to titlebar
Slide 16 – remove the following from the note “never run on that interval again (except for “Pre-Analyst” stage which is special)	Done
Slide 17 – Add another bullet to note – “There can be as many number of triggering conditions as needed”	Done
Slide 19 – There is a list of 4 steps that have been defined. Add the following to the note: There are four defined control flow step types – Sequential, Parallel, Conditional and Loop	Done
Propose that Defines Processing Sequence Storyboards with the IDC changes should also be used for the NDC.	If slides that show an example would be useful, then we need to come up with a “generic” example sequence, possibly also illustrating control flow.

Marks Processing Stage Complete Storyboards Proposed Change	Action Taken / Notes
Slide 8 updated to match event list changes.	<ol style="list-style-type: none"> 1. Mark Complete button added to each event row. 2. Color highlight added to show selected row.

UIS Updates Since November Review (1 of 10)

<h2>Refines Event Storyboards</h2> <p>Proposed Change</p>	<p>Action Taken / Notes</p>
<p>The Refines Event Storyboards were significantly reworked. Most of the steps were already covered in other storyboards. New slides were added describing the steps with references to other relevant storyboards.</p> <ul style="list-style-type: none"> a) Determines Waveform Data Quality → <i>Refer to UIS</i> b) Enhances Signals → <i>Refer to UIS</i> c) Detects Signals → <i>Refer to UIS</i> d) Measures Signal Features → <i>Refer to UIS</i> e) Refines Event Location → <i>Refer to UIS</i> f) Refines Event Magnitude → <i>Refer to UIS</i> g) Evaluates Moment Tensor → <i>Refer to UIS</i> h) Compares Events → <i>Refer to UIS</i> i) Saves Event Hypothesis → <i>Explained as an action</i> j) Adds a comment to the event hypothesis → <i>Refer to Event List Common Component UIS</i> k) Marks event hypothesis and the preferred event hypothesis for this stage → <i>Explained as an action</i> l) Rejects Event → <i>Explained as an action</i> m) Marks event as a reference event → <i>Explained as an action</i> n) Saves signal detection template for this event → <i>Explained as an action</i> o) Creates a copy of the event → <i>Explained as an action</i> p) Views additional waveforms → <i>Refer to Waveform Display Common Component UIS</i> 	<ol style="list-style-type: none"> 1. Details were replaced with references to other relevant storyboards. 2. Removed the 18 slides following the main flow diagram because they are shown in common components and/or other storyboards. 3. Converted slides 26, 27, 28, 29, 31, 33, and 34 into simpler User Action descriptions and referred them to their relevant storyboards. 4. Removed slide 43 since the signal detection list will be described in the common component storyboard. 5. Removed slide 44 since it will be covered by the undo/redo storyboard.
<p>Removed the “Provides Analyst Feedback” step from Refines Event subflow</p>	<p>This step was erroneously included in the slide, even though it was not defined in the Use Case subflow.</p>
<p>Removed the “Open Previous Version” action on slide 30.</p>	<p>This action is not part of this flow. It is covered by Views Event History.</p>
<p>Slide 35 – Change “Save and Next” to just say “Save”</p>	<ol style="list-style-type: none"> 1. Changed to “Save” 2. Removed screen mock up and included as part of other action descriptions.
<p>Slide 32 – For creating a copy of an event, need to clarify the case of a merged event.</p>	<p>Added note that the ability to copy an event is useful when a merged event needs to be split.</p>

UIS Updates Since November Review (1 of 10)

Scans Waveform Storyboards Proposed Change	Action Taken / Notes
Update Key Concepts slide with bullet saying “Currently the global scan can be done in two different modes which are referred to as ‘global scan’ and ‘unassociated detection scan’	Done.
User Case Main Flow to match changes to the UC	Step to “Scroll to Next Detection Feature Map” was added.
Slide 7 – Made consistency changes.	Updated Waveform and Event List to be consistent with latest iteration of the common components. Added in Map Display for Regional Scan illustrating Beam point for VORBS to be consistent with NDC version.
Slide 25 – Add a new note about displaying the Z channel for a 3C station	Note added.
Slide 28 – Update the second bullet to mention negative evidence: “The analyst can select to save a derived waveform with no associated signal detections (e.g. for negative evidence). The selected waveform will not be deleted after the Operational Processing Time period.”	Done.

UIS Updates Since November Review (1 of 10)

Views System Configuration History Storyboards Proposed Change	Action Taken / Notes
Slide 33 – Add to the note that it would be possible to filter the list to only show parameters that change, i.e. parameters that didn't change would not be shown.	Done. Added to note: "The list can be filtered to show only the parameters that changed."
Slide 60 – Corrected slide numbers and step numbers in 3 rd bullet.	Fixed.
Slide 60 – Add new open issue "Can we show differences between the different systems (e.g. OPS and SUS) with this tool?"	Issue closed. No action was taken. This is a single subsystem tool.

Views System Results Storyboards Proposed Change	Action Taken / Notes
Add an Open Issue slide that states we need to update this UIS to take into account features from the IDC portal.	Open Issue added. Being tracked as CR2166.

UIS Updates Since November Review (1 of N)

Views Event History Storyboards Proposed Change	Action Taken / Notes
Use Case diagram no longer includes "Provides Analyst Feedback"	Updated to match UC changes.
Slide 6 and 7 updated to match event list changes.	<ol style="list-style-type: none"> 1. Mark Complete button added to each event row. 2. Color highlight added to show selected row.
Slides 8 - 10: <ul style="list-style-type: none"> • Remove row for 'final' solution from tree display. • Add a column for preferred event hypothesis. 	Done. Also cleaned up example tree diagrams and refined the notes to walk through the display over a number of slides.
Slide 9 shows the wrong table for a copy example.	Fixed. This is now on Slide 15 .
Slides 8 – 10: Replace d map with 'Event Comments' Section.	The Common Map UIS component is synchronized with this display. Added new Slide 11 to clarify this. WHY WAS EVENT COMMENT SECTION ADDED? FOR IDC?
Add a slide that shows an example where a stage has been skipped.	Added Slide 14 showing an example where the Analyst 1 stage was skipped because the Lead Analyst acted as Analyst 1
Slides 15 – 17: Fix so there is less confusion about what is being shown. The circled button should relate to what is being shown in the picture.	Fixed.

UIS Updates Since November Review (1 of 10)

Waveform Common Component Storyboards (1 of 2) Proposed Change	Action Taken / Notes
Overview Slide and Key Concepts Slide, and on all Waveform displays: Removed references to Event Bar	Event Bar references were replaced with ties to Common Event List component. May re-evaluate later and restore the event bar if Event List functionality is insufficient.
Slide 5 – Remove mode bar and create a new slide that discusses the mode bar in more detail.	Slide 5 was divided into a Mode Bar slide and a Button bar slide and more detail was added explaining how the Mode Bar is used to switch between different Analysis Modes (event refinement, scanning, ...) and use to switch display options (waveform alignment, waveform type, ...) Added a new Slide 8 showing additional Waveform Display Configuration Options.
Slide 6 – Update note about colors indicating status of event to include rejected (in red)	Done – Now on Slide 12 .
Slide 6 – Update the event list to be the new one – make sure it is generic (i.e. no EOI column)	Done.
Slide 7 – Update the note about blank channels. Add the sentence “Only show blank channels for stations that are automatically available or are requested.”	Added new Slide 10 illustrating Blank Channels.
Slide 8 – Add a note: “Adjusting a time pick will cause a color change so it is easily possible to see which signal detections have been edited.”	Now on Slide 11 and 12 , the connection with the Event List is shown more clearly and this illustrates what has been edited. The notes now indicate how the signals are colored based on their state.
Slide 9 – Add a note: “Information shown in the pop-up is configurable.”	Done – Now on Slide 14 .
Add a new slide after Slide 12 that shows waveforms where channels are plotted by distance and not evenly spaced	Done – New slide is Slide 19 .
Slide 14 – Update note: “When expand a 3C station can chose to show N,E channels or R, T channels.”	Done – Now on Slide 21 .

UIS Updates Since November Review (1 of 10)

Waveform Common Component Storyboards (2 of 2) Proposed Change	Action Taken / Notes
Slide 15 – Add grid lines to waveform display showing common times	NOT DONE – Decided grid lines could be confusing because of time alignment based on picks. Instead, real time is indicated on hover at the bottom of the display and note was added about this (Now on Slide 22)
Slide 15 – Add a note for time alignment box: “Time alignment options include P-aligned and first arrival aligned.” (This might not be necessary if add information about this in the new slide about modes)	Done – added to Slide 5 in Mode Bar description.
Slide 16 – Use the waveform display from the masking UIS that shows the waveforms highlighted	Done – now Slide 23 .
Slide 19 – Note “Only notification indicators are shown on the Waveform Display; must go to a different display to see actual notification texts” is more relevant to Views Messages	Removed.

Tables Common Component Storyboards Proposed Change	Action Taken / Notes
Slide 8 – Find another table that has expandable rows to use for this slide that doesn’t have as many columns, i.e. is more generic	Done.

UIS Updates Since November Review (1 of 10)

Map Common Component Storyboards Proposed Change	Action Taken / Notes
Slide 6 – In the basic user interactions add after panning, add “recenter the map”	Done.
Slide 12 – add to note about the event list at bottom being undockable	Done.
Add slide for color coding of events by depth – should this be here or in the relocation UIS?	Done – Added new Slide 26 illustrating this.
Add new slide showing that can draw a great circle on the map and see the cross section.	Done – Added new Slide 27 illustrating this.
Slide 17 – add an additional example to the spatial filter part of the note – “or show all historic events within the confidence interval for the current event”.	Added to note “Or, choose a historic events layer and a confidence ellipse to show all history events within the given confidence interval for the current event.”
Slide 22/23 – update map because the observed rays should not cross at the epicenter	Updated.
Slide 27 – update map to show that some of the signal detections are non-defining by making the lines dashed	Done (now on Slide 29)
Slide 39 – Add a note about using web resources to periodically update data: “The new convention is to link to web resources that periodically update data, e.g. satellite images. This insures the latest version used. Because downloading when plotting could take a long time, set up an internal WMF/WMS that would link to an external WFS/WMS. The map would point to the internal service and only load data that was already available.”	Done – Added new Slide 42 which covers this.