

# I-X – Intelligent Technology for Planning and Design

The screenshot displays the JPRC I-X software interface. The main window shows a list of issues and activities. The 'Issues' section includes tasks like 'what can we get from initial briefing?' and 'consider adding verify-location task afterwards'. The 'Activities' section includes tasks like 'report UNESCO-Visitors' and 'locate UNESCO-Visitors'. A 'State' panel at the bottom left shows the current state of the system. A 'JPRC I-X I-Plan Tool' window is open, displaying planning statistics for 'SOF-Entry-Via-Fout-Springs-2.2.2'.

Description	Annotations	Priority	Action
what can we get from initial briefing?	Mission Analysis:	Normal	No Action
consider adding verify-location task afterwards		Normal	No Action
consider adding protect activities afterwards		Normal	No Action
consider adding provide activities afterwards		Normal	No Action
consider adding diversion activities afterwards		Normal	No Action

Description	Annotations	Priority	Action
report UNESCO-Visitors		Normal	No Action
locate UNESCO-Visitors		Low	No Action
allocate-one sof-oda SF-ODA-1 (...)		Normal	Done
move-from-base SF-ODA-1 UNE...		Normal	N/A
move-by-fixed-wing SF-ODA-1 ...		Normal	Delegate to I-Plan
halo-drop SF-ODA-1		Normal	Expand using locate-already-known
verify-location UNESCO-Visitors		Normal	Expand using locate-by-asking
locate UNESCO-Visitors		Normal	Expand using locate-air-search
support SF-ODA-1 UNESCO-Visi...		High	Expand using locate-ground-search
allocate-one sof-oda SF-ODA-2 (...)		Normal	Expand using locate-air-and-ground-search
move-from-base SF-ODA-2 UNE...		Normal	Expand using loca...
move-by-heli SF-ODA-2 LZ-N...		Normal	Expand using loca...
recover SF-ODA-2 UNESCO-Visi...		Highest	Expand using loca...
extract-by-helicopter SF-ODA-2...		Normal	Send to Compend...
protect SF-ODA-2 UNESCO...		Normal	No Action
make-contact SF-ODA-2 UN...		Normal	No Action
authenticate SF-ODA-2 UNE...		Normal	No Action

**JPRC I-X I-Plan Tool**

File

SOF-Entry-Via-Fout-Springs-2.2.2

Planning statistics:

- Steps taken = 25
- Alternatives posted = 24
- Alternatives picked = 5
- Alternatives remaining = 25
- Number of nodes = 7
- Longest node-end path length = 11

Plan Replan Check Plan

An open architecture for the creation of intelligent systems for synthesis tasks (such as planning, design and configuration) based on the handling of "issues" and the management or maintenance of the constraints describing the product of the process.

1. Representation - a core notion of a synthesis process and the product(s) of such processes as a set of nodes making up the process or product, along with constraints on the relationship between those nodes, a set of outstanding issues, and annotations related to these - <I-N-C-A> - Issues, Nodes, Constraints and Annotations.
2. Reasoning - the provision of reusable reasoning and constraint or model management capabilities.
3. User Interfaces - to understand user roles in performing collaborative activities and to provide generic modules which present the state of the processes they are engaged in, their relationships to others and the status of the artefacts/products they are working with.
4. Applications - work in various application sectors which will seek to create generic approaches (I-Tools) for the various types of Task in which users may engage.

The screenshot displays the Joint Personnel Recovery Center Messenger interface. It shows a 'Transcript' window with a message from the JPRC at 22-Nov-04 12:03:52: 'Assisting Military Planner with operational approach to use a single SOF ODA to land at Fouts Spring.' Below the transcript is a 'Compose Message' window with fields for 'Issue', 'Activity', 'Constraint', 'Report', and 'Message', and a 'Send' button.

**Joint Personnel Recovery Center Messenger**

File

Transcript

Assisting Military Planner with operational approach to use a single SOF ODA to land at Fouts Spring.

JPRC at 22-Nov-04 12:03:52:

Assisting Military Planner with operational approach to use a single SOF ODA to land at Fouts Spring.

Compose Message

Assisting Military Planner with operational approach to use a single SOF ODA to land at Fouts Spring.

☐ Issue ☐ Highest Priority ☐ Report Back - Ref =

☐ Activity ☐ High Priority Report Type = information

☐ Constraint ☒ Normal Priority Recipient = Compendium

☐ Report ☐ Low Priority

☐ Message ☐ Lowest Priority

Send

<http://www.aiai.ed.ac.uk/project/ix/>