

Raytheon Integrated Defense Systems purchased an Enterprise Wide License of the LiquidApps® suite for all locations of Raytheon IDS working on the DDG 1000 team. Subsequent to the licensing, Raytheon IDS and Harmonia have worked together to create a training program for DDG 1000 personnel in phases for roll out to the entire team. The pace of the roll out is visible through the growth in number of installed machines running LiquidApps® at Raytheon IDS. The number has steadily climbed week by week, and is still climbing.

A key transformation was possible for the Raytheon IDS HCI team upon licensing LiquidApps®. Prior to licensing, the DDG 1000 Work Instruction was based on a cumbersome process in which activity diagrams were created in Rational Rose, pictures were generated of HCIs in whatever tool each team member liked to use in incompatible formats, the requirements were captured by manual work in the DOORS requirement tool, and the pictures were archived in ClearCase. The DDG 1000 Work Instruction has been updated to completely revamp this process around LiquidApps®. In the new process:

- ❖ LiquidApps® is used to create all HCI designs in one compatible format (UIML) and a storyboard of how the HCI will be used
- ❖ the uLearn™ component of LiquidApps® is used to flush out a description of the storyboard and documentation of IPO (input-process-output: what each screen needs as input, what process the operator does with the screen, and what the screen generates as output) for each HCI in the flow of screens;
- ❖ uLearn™ is used to automatically generate a storyboard so that the HCI design for the ship can be subjected to peer review; and
- ❖ LiquidApps® exports the formal requirements to DOORS automatically.

Bob Thayer, Project Owner for the Raytheon LiquidApps rollout®, had the following things to say about how LiquidApps® is being used by his team:

- ❖ The turnaround time for what a storyboard should look like was “just amazing!” when using LiquidApps®.
- ❖ The composites and stylesheets in LiquidApps® rally helped with style compliance.
- ❖ The LiquidApps® team offered “fantastic support!”
- ❖ “I’m jealous that I don’t have the time to sit and use the tool myself!”