

#84: Harmonia, Inc.

Enhancing the Total Ship Computing Environment Infrastructure through UIML

Software development tools, human computer interfaces, UIML, platform independent design



Syscom: NAVSEA

Topic: N04-223

TRL: 6

Since 1999, this company has been creating breakthrough software tools that improve Human Computer Interface (HCI) engineering for large, complex development projects. Better HCI designs increase warfighter effectiveness and reduce manning requirements. Our company provides an integrated HCI development product that allows intuitive HCI design by domain experts, facilitates reuse and consistency, automates documentation, supports human performance measurement, and improves survivability of ship functions. The company's tools are estimated to generate an ongoing 40% - 60% reduction in HCI development costs for the Tactical Tomahawk Weapons Control System, are in use by the DDG 1000 Human Systems Integration Cross Product Team, and are available for evaluation by other programs. The company seeks relationships with Defense programs and system integrators that could benefit from this technology.