

JSP 602 Instruction	1011	Applicability	Applications
Configuration Identity	Version: 01.02 Amended: 2009-03-02 Reviewed: 2006-06-16	Epoch Applicability	2005 - 2009

JSP 602: 1011 - Human Computer Interaction

Outline

Description: HCI provides the means by which users interact with the computer. HCI covers the standards that should be adhered to when designing the interface between the users and the client/server device, and includes Human Factors.

Reasons for Implementation: The purpose of this policy is to promote a common approach to user interface implementation.

Issues: Many applications used by MOD (particularly in the Strategic and Deployed domains) will be COTS hence the HCI will be already implemented. Bespoke applications (which will predominate in the Tactical domain) will benefit from a common approach to HCI development by application developers giving a more uniform look and feel.

Guidance: This leaflet is broadly consistent with the e-GIF, but extends it by making specific standard recommendations. This leaflet is consistent with the NC3TA.

Policy

Strategic

1011.01: General HCI policy

1011.01.01 All systems and/or projects shall provide an HCI that is constructed using WIMP.

These form a de facto standard for computing devices.

1011.02: Military Symbology

1011.02.01 Projects and systems displaying military symbology shall adhere to the following standard:

1011.02.01.01 Mil Std 2525 B "Common Warfighting Symbology"

This is the agreed NATO standard.

1011.03: Desktop Computers

1011.03.01 All systems and/or projects shall provide an HCI using at least one of the following standards:

1011.03.01.01 Browser based where the supported standard is HTML, Version 4.0.1, Reference Specification, W3C REC-html401-19991224:1999 (Dynamic HTML)

1011.03.01.02 MS Windows Desktop for PC-based business or workstation client devices

1011.03.01.03 X Window System, Version 11, release 6.6, X Consortium X11R6.6:2001 for workstation clients

These are the market leading standards for client devices.

1011.04: Human Factors

1011.04.01 All systems and/or projects shall conform with the following Human Factors requirements:

1011.04.01.01 Defstan 00-25 (Part 19) Human Engineering Domain - Technical Guidance and Data

1011.04.01.02 AMS Human Factors Integration web site

1011.04.02 In addition, all systems and/or projects providing equipment and/or applications for the Air environment shall conform with the following standards:

1011.04.02.01 STANAG 3705: "Human Engineering Design for Controls and Displays in Aircrew Stations"

1011.04.02.02 Mil Std 1295A "Design Criteria for Helicopter Cockpit Symbology"

1011.04.02.03 STANAG 3216 "Layout of Flight Data in Pilot Displays"

<p>Strategic (continued)</p> <p><i>This is MOD policy on all aspects of HCI and Human Factors.</i></p> <p><i>Comment:</i> Emphasis shall be placed on Human Factors Integration as a process for addressing human related risks in acquisition, including those associated with the Human Computer Interface.</p> <p><u>1011.05: Special Needs Consideration</u></p> <p>1011.05.01 MOD information systems shall be designed to meet UK policy, and to support channels that provide accessibility for disabled people in accordance with the following:</p> <p style="padding-left: 40px;">1011.05.01.01 ISO 13407 (1999) "Human Centred Design Processes for Interactive Systems".</p> <p style="padding-left: 40px;">1011.05.01.02 Disability Discrimination Act (1995) Code of Practice.</p> <p><i>Comment:</i> There should be procedures in place involving periodic inspections and questionnaires to identify users who are encountering problems. Questionnaires need to be sufficiently detailed to identify specific problems, and should be followed with an inspection by a trained person capable of correctly deducing the causes of any problems reported. Human resources staff responsible for staff recruitment should liaise with health and safety representatives and local IT administrators in ensuring that appropriate solutions are in place to empower any disabled applicants.</p> <p><u>1011.06: Small form factor devices</u></p> <p>1011.06.01 Nothing is mandated in this category as the HCI will largely depend on the device capabilities and the product installed on the device.</p> <p><i>There are no clear dominant standards or products in this market, consequently it is critical that devices support the standards specified in JSP602: 1012 - Information Interchange.</i></p>
<p>Deployed</p> <p>As for Strategic domain.</p>
<p>Tactical</p> <p><u>1011.07: Bespoke HCIs</u></p> <p>1011.07.01 Nothing is mandated in this category as HCIs will be defined by the ruggedised bespoke product being used. Bespoke HCIs should conform to domain-specific style guides.</p> <p><i>Environmental and ergonomic constraints will limit the use of COTS. Style guides are most useful where industry standards and COTS are not suitable.</i></p> <p><u>1011.08: Special Needs Considerations</u></p> <p>1011.08.01 Where minor disabilities occur (e.g. short sightedness, colour blindness, etc.), access device settings should allow for user specific configuration.</p>
<p>Remote</p> <p>As for Strategic domain.</p>

Responsibility for Implementing the Policy

Implementation of this policy shall be the responsibility of all MOD Projects (and their suppliers) that provide HCIs within the GII.

Procedure

Not Applicable.

Relevant Links

JSP602: 1012 - Information Interchange

The AMS Human Factors Integration web site can be found here.
(<http://www.ams.mod.uk/ams/content/docs/hfiweb/hfihome.htm>)

Disability Discrimination Act (1995) Code of Practice can be found here.
(<http://www.disability.gov.uk/dda/>)

A glossary of terms and abbreviations used within this document is available here.

Instructions on how to read a JSP602 leaflet are available here.

Compliance

Stage	Compliance Requirements
Initial Gate/DP1	MOD Projects shall submit a formal declaration that they have read and understood the policy and sought guidance from the SME(s).
Main Gate/DP2	MOD Projects shall reference in their SRD (and MODAF technical views) the specific policy elements contained within this leaflet that are applicable to the infrastructure they are procuring or updating.
Release Authority/DP5	MOD Projects (supported by their equipment suppliers) shall provide evidence of their compliance with the elements of this policy defined within the SRD (and MODAF technical views). Evidence of conformance with standards shall be presented; sources of evidence may include: conformance/compliance certificates provided by equipment suppliers (e.g. under type approval or other assessment regimes), demonstrations, inspection, analysis, tests carried out by suppliers (e.g. Factory Acceptance Tests) and tests carried out at Defence Test and Reference Facilities.