

6 June 2006

Questionmark Computing Limited  
4th Floor  
Hill House  
Highgate Hill  
London  
N19 5NA

Dear Client,

Thank you for requesting Aviation Industry CBT Committee (AICC) Web-based CMI Certification of your Courseware Generation and Assessment System, Perception, version 4.1.1. We have conducted the testing required by AICC/CMI Certification Testing Procedures, Document Number CMI008, Version 1.5 of November 22, 2000.

We are pleased to inform you that the testing has been successful. Enclosed is the Independent Test Laboratory Report that is in accordance with Appendix D of CMI008. We note that there were no errors or warnings observed during the conduct of this test. Also enclosed are the test error logs and relevant correspondence.

All test files have been e-mailed to you in .Zip format.

Point of contact is James Idle, Code 413, at (360) 315-1884.

Sincerely,

THOMAS J. LACEY  
Head,  
Fleet Readiness Department  
By direction of the Commander

Enclosures: 1. Appendix D Test Lab Report Form (AGR-010)  
2. Vendor Correspondence and Instructions  
3. AICC Independent Test Laboratory Error Logs

## Appendix D Test Lab Report Form (AGR-010)

Preliminary Report       Final Report

**AICC Independent Test Lab Location :** NAVSEA Division Keyport, Washington

**Name & Version of product tested:** Perception, version 4.1.1

**Product vendor organization:** Questionmark Computing, Ltd.

**AICC/CMI Test Suite Version:** 1.5

**CMI001 Version:** 2.2

**Product Type:**  CMI System  
 CMI System/Application Service Provider (ASP)  
 CBT Course - (Attach a list of AU's tested)  
 Individual CBT Assignable Unit(s) - (Attach a list of AU's tested)  
 Courseware Generation/Assessment System  
 Authoring System

### Test Workstation Configuration

**Operating System/Version:** Windows 98 SE (build 4.10.2222)  
**CPU:** 533 Mhz Intel Pentium II  
**RAM:** 384.0 MB installed  
**Display:** Megavision Systems, Inc. MV173V 17" TFT LCD  
**Apache Version:** 1.3.22

### Test Results

Did the product tested meet minimum requirements for CMI001 Appendix- A and AGR-010?

YES       NO

Enclosure (1)

## AICC Independent Test Lab Report

### Courseware Generation and Assessment System Test Results

|   |  |
|---|--|
| <b>CBT Course Structure Format Test (§4.2.1):</b>   | [ ] Passed      [ ] Failed   |
| <i>Comments and/or Reason For Failure:</i>          | Not required for this Courseware Generation and Assessment System Test   |
| <b>CBT AU Launch / Communication Test (§4.3.1):</b> | [ <b>X</b> ] Passed      [ ] Failed  |
| <i>Comments and/or Reason For Failure:</i>          | <p>Initial setup of <i>Perception 4.1.1</i> on AICC Test Lab laptop computer was assisted by vendor's call center staff (800-597-3950). Actions required to accomplish testing include:</p> <ul style="list-style-type: none"> <li>• .NET framework updated to version 1.1 (from Microsoft)</li> <li>• MDAC 2.8 SP1 downloaded (from Microsoft) to update <i>Microsoft ODBC for Oracle</i> to version 2.575.1117.00</li> <li>• IIS (not part of <i>Windows 2000 Professional</i>) installed (from Microsoft)</li> <li>• MSDE installed (version from Questionmark customized for Perception 4, not MSDE Release A from Microsoft, which had to be uninstalled)</li> <li>• Questionmark <i>Perception 4.1.1</i> downloaded and installed</li> <li>• Extended <i>Perception 4.1.1</i> license downloaded and installed</li> <li>• <i>Windows 2000 Professional</i>, acceptable as operating system (<i>Windows 2000 Server</i> preferred), updated to Service Pack 4 (from Microsoft). Finally had to convert file system from FAT32 to NTFS to accommodate Perception 4's internal security requirements.</li> <li>• <i>Apache</i> http server stopped (starts by default) and IIS started (via <i>IISReset.exe</i>)</li> <li>• Perception's <i>Shared Repository Manager</i> used to create MSDE repository</li> <li>• Perception's <i>Browser Based Authoring / Question Manager</i> and <i>Assessment Manager</i> tools used per Vendor Instructions to create two test questions and organize these into two "assessments" (each one representing one AU).</li> </ul> <p>Vendor Instructions (included below) were accurate regarding parameters required for launching the required tests:</p> <p>URL to CGI catcher:      <code>http://140.178.162.109/cgi-bin/wrapper.exe</code><br/> Full URL to Assignable Unit: <code>http://140.178.66.167/q4/session.dll</code><br/> Vendor specific web launch parameters: <code>CALL=aicc</code></p> <p>Lesson (AU) Title:      <code>AICC Assessment Test (AU) 1</code>      (first AU)<br/>    <code>AICC Assessment Test (AU) 2</code>      (second AU)</p> <p>[CORE_VENDOR] data: <code>Lesson_ID=3424377885552023</code>      (first AU)<br/>    <code>Lesson_ID=4186671331326091</code>      (second AU)</p> <p>AU #1 and AU #2 tested per AICC procedures §4.4 and §4.3.1 (CMI008, pp. 41-44) Successfully passed on March 6, 2006.</p> <p><u>List all AU's that failed, if any.</u><br/> (Attach a list separately if needed)</p> <p>NONE failed.</p> |

# **AICC Independent Test Lab Report Vendor Instructions**

Attached are copies of written or verbal Vendor Instructions specific to conducting the AICC Testing procedures.

Enclosure (2)

## **Instructions for installing Perception for AICC certification testing**

*Paul Roberts / John Kleeman*

*November 2005*

*First draft*

### **1. Overview**

Questionmark Perception is a testing and assessment engine that allows teachers and trainers to create tests, deliver them over the web or an intranet, and score and analyze the results. With its AICC link, it's possible to call tests from other programs, e.g. learning management systems.

Perception is being recertified in December 2005, these instructions update and replace the instructions provided two years ago for its last recertification.

This document gives some notes on setting up and running Perception with the AICC test suite. In the event of any queries, please contact Paul Roberts ([paul@questionmark.co.uk](mailto:paul@questionmark.co.uk)) for technical issues or Vicki Pearson ([vicki.pearson@questionmark.co.uk](mailto:vicki.pearson@questionmark.co.uk)) for administrative issues.

### **2. Installing Perception**

Perception consists of two components, authoring and server software. The server software includes a basic browser based authoring element, so you don't need to install the full authoring component unless you want to author more complex things (probably not needed for AICC certification testing).

- (1) You need to be registered with Questionmark Communities. Vicki Pearson can set this up for the person installing/downloading Perception
- (2) You can download Perception Server 4.1.1 from the version 4 section of <http://www.questionmark.com/communities/downloads.asp>, you should also download MSDE for Perception version 4.
- (3) The software will run for 7 days without a license, but use for a longer period requires a license. A license can be provided to allow extended use, please contact [vicki.pearson@questionmark.co.uk](mailto:vicki.pearson@questionmark.co.uk).
- (4) You need a PC running Windows 2000 Server or Windows 2003 Server to install Perception. It can also run on a Windows XP PC for demo/trial use.
- (5) Full install instructions are at <http://www.questionmark.com/perception/help/v4/manuals/psig/index.html> but it may be possible simply to run the program and it will install itself without you needing to read the manual. The simplest route would be to
  - Install the Perception Server software
  - Install MSDE
  - Run Shared Repository Manager to create an MSDE repository and configure to the server

- Your system is then live and you can run Enterprise Manager (the admin part of Perception) and the delivery software (which can be called via AICC).

Perception needs to be installed on a machine running IIS. Since the AICC test suite requires Apache running we did this on 2 separate machines, with Apache on a machine, with a network address of 192.168.1.2 and Perception and IIS running on a machine, network address 192.168.1.3. If you are using different network addresses, substitute them below.

You can check the Perception installation is working by calling Enterprise Manager, for example <http://192.168.1.3/em4/login.asp> (login with Manager/Secret) or the open access program, open.dll, for example, <http://192.168.1.3/q4/open.dll>, put any name in the login screen and continue, you should then see that there are no assessments available (you need to make them).

### 3. Creating assignable units

Perception, an Assignable Unit corresponds to an assessment, and so these instructions describe how to make two assessments. These instructions cover the creating of the assessments – see below for how to set up Perception to call these assessments via AICC HACF from the AICC test suite.

- (1) Run Enterprise Manager by logging into the software from <http://192.168.1.3/em4/login.asp> (login with Manager/Secret)
- (2) Choose Browser Based Authoring, Question Manager and create some questions
- (3) Choose Browser Based Authoring, Assessment Manager and create an assessment
- (4) This is an Assignable Unit. You need to know the assessment ID from within Perception to be able to reference the assessment in the CMI test suite. [Users usually pass this to the LMS via a content package, but you can adopt a simpler route.] You can see this (and copy/paste) at the top right of one of the assessment editing screens, for instance in the screenshot below, it is **4085235344380610**

Created by: *Manager* ID: 4085235344380610

Assessment name:  Assessment type:

Message given at the start of the assessment

Assessment password

Confirm password

<< Back Next >> Cancel Finish ?

- (5) Questionmark can also provide a Qpack (zipped file) that contains assessments if you'd like to use an alternative assessment.

If you encounter problems with any of the above, please contact Questionmark technical support or your contacts in the Questionmark development team.

#### 4. Notes on using the CMI test suite

All assessments use the same commencing and concluding procedure to provide AICC support, so there should be no need to create alternative assessments.

In our internal testing at Question Mark, these were the settings used for the CMI Test suite setup:

1. Test Suite Directory: C:\Cmi\_tst
2. Web\_based (AGR-010): selected
3. URL to HTTP Proxy launcher: <http://127.0.0.1/aicc/lttest.html>
4. Automatic Proxy launch: selected
5. URL to CGI catcher (i.e. aicc\_url): <http://192.168.1.2/cgi-bin/wrapper.exe>

These were the settings we used for the first Launch Individual AU test, to call the simple example assessment. For the Individual AU setup screen we used the following settings:

1. Full URL to Assignable Unit : <http://192.168.1.3/q4/session.dll>

2. Vendor specific web launch parameters : CALL=aicc
3. Lesson (AU) Title : Perception AICC test
4. [CORE VENDOR] data :  
Lesson\_ID=4117626686784785

(You should replace this ID with the ID of your assessment)

# **AICC Independent Test Lab Report Error Logs**

Attached are copies of error logs specific to conducting the AICC Testing procedures.

Enclosure (3)

## WEB\_CBT\_Error.log – AU #1 and AU #2

AICC/CMI Test Suite - Ver 1.5

Disclaimer: Test results are not valid unless tests are conducted  
in an AICC authorized Independent Test Lab

<< AICC Individual Web-based AU Launch and Communication Tests >>

```
Mar 06 2006 22:51:18 < Launching AU (AU0000) ... >
Mar 06 2006 22:51:19 < Reading HACP Message ... >
Mar 06 2006 22:51:19 <   HACP Command: GETPARAM S#:001 M#:001 >
Mar 06 2006 22:54:16 < Reading HACP Message ... >
Mar 06 2006 22:54:16 <   HACP Command: PUTPARAM S#:001 M#:002 >
Mar 06 2006 22:54:16 < PutParam() AICC_Data - OK >
Mar 06 2006 22:54:17 < Reading HACP Message ... >
Mar 06 2006 22:54:17 <   HACP Command: EXITAU S#:001 M#:003 >
Mar 06 2006 22:54:17 < ... HACP Session Closed >

Mar 06 2006 22:59:21 < Launching AU (AU0001) ... >
Mar 06 2006 22:59:22 < Reading HACP Message ... >
Mar 06 2006 22:59:22 <   HACP Command: GETPARAM S#:001 M#:001 >
Mar 06 2006 22:59:34 < Reading HACP Message ... >
Mar 06 2006 22:59:34 <   HACP Command: PUTPARAM S#:001 M#:002 >
Mar 06 2006 22:59:34 < PutParam() AICC_Data - OK >
Mar 06 2006 22:59:35 < Reading HACP Message ... >
Mar 06 2006 22:59:35 <   HACP Command: EXITAU S#:001 M#:003 >
Mar 06 2006 22:59:35 < ... HACP Session Closed >
Mar 06 2006 23:02:46 < ==> Total AUs Tested = 2 >
Mar 06 2006 23:02:46 < ==> Total AUs Failed = 0 >
Mar 06 2006 23:02:46 < ==> Total AU Communication Errors = 0 >
```