ATS ED NOTICE 6

20 October 2008

From: Director, ATS Executive Directorate (ED)

Subj: DoD ATS OPEN SYSTEMS INTERFACES

Ref: (a) USD(AT&L) memo of 28 July 2004
(b) ATS Executive Directorate Notice 5 of 22 January 2008

1. Reference (a) promulgated DoD policy regarding acquisition of Automatic Test Systems and requires the use of designated DoD ATS Families or COTS solutions that comply with the DoD ATS Technical Architecture Framework. To the previously approved interface specifications, reference (b) added the Runtime Services (RTS) element and updated the Data Networking (NET) specification.

2. This notice is issued to add several Interchangeable Virtual Instruments (IVI) standards to the Instrument Driver (DRV) element. Either the VXI plug&play (VPP) or IVI standards listed can be implemented for the DRV element, with IVI being the preferred set of standards. There are still a total of seven ATS interface specifications, and one technical architecture rule.

Interface	Acronym	Specification
Digital Test Format	DTF	IEEE Std 1445-1998 – IEEE Standard for Digital Test Interchange Format (DTIF)
Frameworks	FRM	VPP-2 Frameworks Specification
Instrument Driver	DRV	VPP-3.x Family of Instrument Driver Specifications
Instrument Driver	DRV	IVI-3.1, 3.2, 3.3, 3.4, & 3.14 Selected IVI Architecture Standards
Instrument Communication Manager	ICM	VPP-4 Virtual Instrument Software Architecture
Computer to External Environments	CXE	Any hardware capable of supporting TCP/IP
Network Protocols	NET	IETF RFC0793 and RFC0791
Runtime Services	RTS	IEEE Std. 1671 ATML-2006 Annex C

ATS Interface Rule Number	Mandatory Guidance
1	Any element of the technical architecture that is implemented shall not be bypassed by a direct communication to another interface or layer further on in the process.

3. These above seven ATS interfaces with their related specifications are to be incorporated in all future ATS acquisitions and are to be included in ATS modernization planning where applicable. In addition to implementing these ATS interfaces, ATS interface rules must be imposed and complied with. As additional interface specifications and rules are identified, they will be issued via ATS Executive Directorate Notice.

4. More information on the DoD ATS Technical Architecture Framework is available at http://www.acq.osd.mil/ats. Questions may be addressed to Service ATS Program Coordinators, Mr. William A. Ross, Assistant Director of the DoD ATS ED at (301) 757-6907, or Mr. Mike Malesich, Chairman of the DoD ATS Framework Working Group, at (732) 323-4877.

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