



DOD ATS ED NOTICE 5

22 January 2008

From: Director, DoD ATS Executive Directorate (ED)

Subj: DOD AUTOMATIC TEST SYSTEMS TECHNICAL ARCHITECTURE KEY INTERFACE SPECIFICATIONS

Ref: (a) USD(AT&L) memo of 28 July 2004
 (b) ATS Executive Agent Office Notice 4-99 of 8 November 1999

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. Reference (b) approved six ATS interface specifications and one technical architecture rule. This DoD ATS Executive Directorate Notice adds the Runtime Services (RTS) element. The Data Networking (NET) specification has been updated to reflect the latest version of the industry network standards.

KEY 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 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.

2. The above seven ATS Key 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.

3. More information on the DoD ATS Technical Architecture is available at <http://www.acq.osd.mil/ats>. Questions may be addressed to Mr. William A. Ross, Assistant Director of the DoD ATS ED at (703) 757-6907, or Mr. Mike Malesich, Chairman of the DoD ATS Framework Working Group at (732) 323-4877.



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