



DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND
FORT MONROE, VIRGINIA 23651-5194

REPLY TO
ATTENTION OF

6 AUG 1999

ATCD-RP

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Memorandum of Instruction for Software Change Cycle

1. Purpose. This MOI defines the TRADOC process by which all requirements for updating software for ABCS member systems are documented, synchronized and prioritized. This process assures that this system of systems continues to function as a collective entity with each incremental upgrade in capability. As such, this process implements configuration control at the requirements level.

2. Definitions.

a. "I-Day" is the date on which PEO C3S issues implementing contract instructions to individual program managers. All timing must work backward from this date.

b. "R-Day" is the date on which the TPIO delivers a synchronized, integrated and prioritized set of software upgrade requirements to PEO C3S.

c. "Bundling" refers to groups of functions/subfunctions that must interact successfully, both within a given member system and between member ABCS systems.

d. ABCS system components/subsystems are the Global Command and Control System-Army (GCCS-A), Advanced Field Artillery Tactical Data System (AFTADS), All Source Analysis System (ASAS), Combat Service Support Control System (CSSCS), Air and Missile Defense Planning and Control System (AMDPCS), Maneuver Control System (MCS), Force XXI Battle Command-Brigade and Below (FBCB2) System, and the Tactical Airspace Information System (TAIS).

e. Support systems to ABCS are the Digital Topographic Support System (DTSS) and the Integrated Meteorological System (IMETS), while the Warfighter Information Network (WIN), Tactical Internet (TI) and the Integrated Systems Control (ISYSCON) are enabling systems.

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3. Scope and granularity. The TRADOC process applies to all software upgrades of any member of ABCS, and is managed by the TPIO-ABCS. The TRADOC process works at the level of detail defined in User Functional Descriptions (UFD).

4. Mechanics of the process.

a. TPIO-ABCS determines R-Day in consultation with PEO C3S, based on the lead-time required by the latter to implement requirements, but normally 3 months before I-Day. Software upgrades may be on a scheduled or a periodic basis (e.g., yearly) or irregularly scheduled special event (e.g., significant force fielding). In either case, the TPIO-ABCS will establish a single R-Day for each set of upgrades.

b. TSMs will forward a prioritized list of system software upgrade requirements to the TPIO by R-60. The proposed upgrades will identify individual functions/subfunctions to be modified, as detailed in the system's UFD. The UFD must clearly identify interactions within the component system and interactions with any other ABCS system. This will define the logic by which functions will be bundled and subsequently managed as a single entity. Each individual TSM will prioritize the bundles with respect to their system and deliver the prioritized bundles, their respective UFDs and bundling logic to the TPIO by R-60.

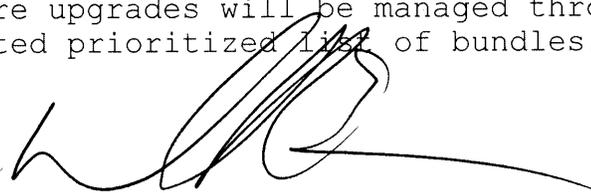
c. The TPIO will validate requirements and bundling logic. This is a two part vetting process, conducted at the individual system level. The first part addresses the importance of each proposed new or upgraded function/subfunction on an individual basis. The second part verifies which functions/subfunctions must interact successfully and that must be upgraded simultaneously. The reasons for validating, nullifying, or deferring proposed functional upgrades will be documented.

d. The TPIO will perform horizontal integration across the ABCS systems and rebundle proposed functions/subfunctions based on interoperability requirements or risk overall system/force failure (see enclosure). The intent is to enable bundling on a cross-system basis. Further, the bundling logic will be based on the premise that the entire bundle must be funded and fielded, or none of it. The UFDs and bundling logic for each bundle will be documented, and will include the expected change in capabilities.

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e. Finally, the TPIO will prioritize the resulting bundles, which will be managed subsequently as single entities. The intent is to ensure that the most important bundles are fully funded and fielded. If a complete bundle cannot be delivered and fielded according to schedule, then the entire bundle will be withheld until it is complete.

5. HQ TRADOC will not entertain ABCS related software upgrades as UFRs submitted by individual centers or schools. All incremental changes in software upgrades will be managed through the TPIO-ABCS IAW the integrated prioritized ~~list~~ of bundles.



Encl

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Bundling, Synchronization and Prioritization

