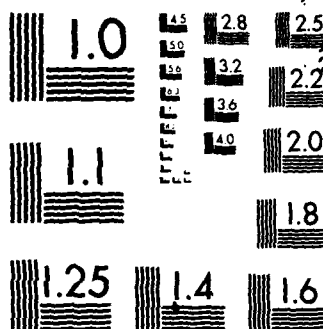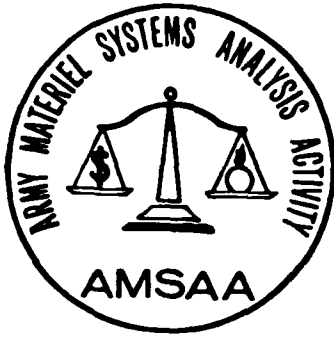AMSAA

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BIBLIOGRAPHY OF PRINTED MATERIAL
PERTAINING TO
RATIONALIZATION, STANDARDIZATION, AND INTEROPERABILITY (RSI)

DECEMBER 1984

**U.S. ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY**
**LOGISTICS STUDIES OFFICE**
**FORT LEE, VIRGINIA 23801-6046**

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RESEARCH NOTE 042-1

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DECEMBER 1984

BY

MAJOR DONALD E. STUMP

LOGISTICS STUDIES OFFICE
US ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY
FORT LEE, VIRGINIA  23801-6046

ABSTRACT

Printed material pertaining to Rationalization, Standardization, and Interoperability (RSI) was collected and prepared in conjunction with Logistics Studies Office Project 042, Identification and Documentation of Rationalization, Standardization, and Interoperability (RSI) Functions.

REPORT TITLE:  Bibliography of Printed Material Pertaining
               to Rationalization, Standardization, and
               Interoperability (RSI)

i

## ACKNOWLEDGMENTS

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ii

## TABLE OF CONTENTS

# INTRODUCTION

1. This Research Note contains a bibliography of Rationalization, Standardization, and Interoperability (RSI) material.

2. The material is arranged in four sections: Published Works and Articles, Military Directives, Letters and Messages Pertaining to RSI, and Reports that may be found in the Defense Logistics Studies Information Exchange (DLSIE), with abstracts.

3. The bibliographic entries were collected in conjunction with Logistics Studies Office Project 042, Indentification and Documentation of Rationalization, Standardization, and Interoperability (RSI) Functions.

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# PUBLISHED WORKS AND ARTICLES

ABCA Armies. <u>Quadripartite Standing Operating Procedures</u>.
  Washington, DC:n.p., 1973.

<u>Agreements on Inter-NATO Defense Trade</u>, US General Accounting
  Office, 441 G St NW, Washington, DC   20548.

Alexander, CPT Robert E.; McNulla, CPT James E., USN; Babbidge,
  COL Michael J., USAF; Blose, CDR Larry E., USN, et al.
  <u>Rationalization, Standardization, Interoperability (RSI) -</u>
  <u>A Policy Statement</u>, National Defense University, Fort Lesley
  J. McNair, Washington, DC   20319.

American Defense Preparedness Association. <u>Reference Book on</u>
  <u>NATO Rationalization, Standardization, and Interoperability</u>
  <u>(RSI)</u> 1-2 (November 1979).

<u>Analysis of US Army Options for Enhanced NATO Standardization and</u>
  <u>Interoperability (S)</u>, Washington, DC:   Department of the Army,
  26 May 1977.

Basil, Robert A.   "NATO Must Standardize," <u>National Defense</u>,
  November-December 1977, pp. 208-211.

BBC.   "Price of Peace--NATO Standardization and Interoperability."
  (Film) Georgetown University, 1977.

Callaghan, Thomas A., Jr.   "No Two-Way Traffic Without a Two-Way
  Street."   <u>NATO Review</u>, October 1977, pp. 22-27.

Center for Strategic and International Studies. <u>Allied Inter-</u>
  <u>dependence Newsletter</u>, No. 9 (1 March 1979).

Cooling, Dr. Benjamin F., and Hixson, LTC John A.   <u>Lessons of</u>
  <u>Allied Interoperability:   A Portent for the Future?</u>
  Carlisle Barracks, PA: US Army War College 1978.

Coppit, MAJ George L.   "The Impact of Defense Economics on
  International Logistics and the Interoperability Concept."
  Student paper from US Army Logistics Management Center,
  Fort Lee, VA, 31 March 1980.

Crofts, COL John A.; Smith, LTC Frank L.; Rodeman, LTC Dean A.;
  Wilmeth, MAJ James L., III, USA, et al. <u>Analysis of NATO</u>
  <u>Standardization and Interoperability (U)</u>, Office, Deputy
  Chief of Staff for Operations and Plans, DA, Washington,
  DC   20310.

1

Currie, Malcolm R. "NATO Standardization and Interoperability: A US Industry Perspective." Speech presented at American Defense Preparedness Association Symposium, Los Angeles, CA, 8 March 1978.

D'Ambrosio, Antonio J. "Report of Trip to 9th Meeting, Land Force Logistics Working Party and 2d Supply Systems Sub-Committee, NATO HQ, Brussels, Blegium," US Army Materiel Development and Readiness Command, 5001 Eisenhower Avenue, Alexandria, VA 22333.

D'Ambrosio, Antonio J. "Reforger Exercise 81," US Army Materiel Development and Readiness Command, 5001 Eisenhower Avenue, Alexandria, VA 22333.

Defense System Management College. "NATO/RSI Acquisition Guide," 26 September 1980.

Department of the Army. Direction for Army Logistics DIALOG: Army Logistic Goals and Objectives. Washington, DC: Department of the Army Headquarters, January 1980.

Department of Defense. Department of Defense Directive, No. 2010.6. "Standardization and Interoperability of Weapons Systems and Equipment Within the North Atlantic Treaty Organization," 1980.

Eiland, Michael D. "The Two-Way Street in NATO Procurement," Strategic Review, Summer 1977, pp. 60-70.

Eiland, Michael D. "Some Observations on Comparative Advantage, Economic Efficiency, and the Two Way Street," (Paper, International Economic Affairs, OHSD/ISH, 1976).

Executive Symposium on NATO Standardization and Interoperability. Meeting Report. Fort McNair, Washington, DC: National War College, 4 August 1977.

Fargher, John S., Jr. Major RSI Approaches, Defense Systems Management College, Fort Belvoir, VA 22060

Ford, John J. "NATO Standardization and Interoperability--A Time for Involvement." National Defense, January-February 1979, pp. 44-46, 74.

Foreign Affairs and National Defense Division, Congressional Research Service, Library of Congress. Report to the Committee on International Relations, US Congress, House, on NATO Standardization: Political, Economic and Military Issues for Congress, 29 March 1977.

Gessert, Robert A.; Heaverly, J. Ross; and Port, Arthur Tyler
(consultant). DARCOM OIRD's Role in NATO Rationalization/
Standardization/Interoperability. McLean, VA: General
Research Corporation, February 1978.

Gorges, Heinz A., and Kaitz, Edward M. NATO RSI Policy: An
Overview. Washington, DC: Kaitz Associates, December 1978.

Grove, LTC Robert N.; Callahan, LTC Donald J.; Espin, Howard E.;
and Gabrysiak, Walter J.; USA, et al. Rationalization,
Standardization, Interoperability (RSI) - The Family of
Weapons Concept, Industrial College of the Armed Forces,
Fort Lesley J. McNair, Washington, DC 20319

Gundersen, General H. F. Zeiner. "The Balance of Forces and
Economic Problems." NATO Review 27 (October 1979):3-7.

Haig, General Alexander M., Jr. "NATO and the Security of the
West." NATO Review 27 (August 1978):pp. 8-11.

Harvey, M. Y. Office of International Research and Development,
DARCOM, NATO/ABCA, Alexandria, VA. Interview, 29 October
1980.

Heinlein, COL Joseph J. "Standardization and the NATO-MAS
US Army Interface." Army Research, Development, and
Acquisition Magazine, July-August, 1980, pp. 30-31.

Identification/Documentation of Readiness RSI Functions,
US Army Materiel Development and Readiness Command (Dir
for Progs, Anal, and Eval), 5001 Eisenhower Avenue,
Alexandria, VA 22333

Industrial College of the Armed Forces. Rationalization,
Standardization, Interoperability (RSI): The Family of
Weapons Concept. Washington, DC: National Defense

Interim Report on the Standardization and Interoperability of
NATO Military Equipment, Fifteenth Report by the Committee
on Government Operations, US Congress, Washington, DC 20515.

Interoperability Handbook on Logistics, US Army Training and Doctrine
Command, Fort Monroe, VA 23651.

"The Inoperability of Interoperability?" Armed Forces Journal
International, April 1979, p. 36. University, 1979.

Kaitz, Edward M., and Gorges, Heinz A. NATO RSI Policy: An
Overview, Kaitz (Edward M.) & Assoc. Incl, 1800 M St NW,
Suite 310 North, Washington, DC 20036.

Konings, LTC Alberto A.  Equipment Standardization in NATO:  An
    Unrealistic Goal.  Maxwell AFB, AL: Air War College 1979.

McCoole, LTC Delos A.  "Military Standardization:  Its Opportuni-
    ties and Alternatives for the US Army."  Student Essay,
    US Army War College, Carlisle Barracks, PA, 14 October 1975.

Madison, COL John H., Jr.; Freedman, COL Edward P.; Frick, LTC
    James A., USA; Hankee, William B., et al.  NATO Rationalization
    and the US Army, Office of the Deputy Chief of Staff for
    Operations and Plans, DA, Washington, DC  20310.

Malone, Daniel K.  ROLAND:  A Case For or Against NATO Standardi-
    zation, National Security Affairs Monograph, No. 80-5.
    Washington, DC: National Defense University Research
    Directorate, 1980.

Metcalf, A. G. B.  "Foreign Policy and Force Requirements."
    Strategic Review 24 (Summer 1980): p. 4E.

Minutes of the First US Workshop on Alliance Logistics - 21 March
    1983, Office of the Deputy Chief of Staff for Logistics,
    Department of the Army, Washington DC  20310.

Minutes of the Second US Workshop on Alliance Logistics - 12-14
    July 1983, Office of the Deputy Chief of Staff for Logistics,
    Department of the Army, Washington, DC  20310.

NATO, Military Agency for Standardization (MAS).  Standardization
    Agreement, ed. No. 3.  "Allied Quality Assurance Publications,"
    STANAG No. 410, 29 May 1978.

NATO, Military Agency for Standardization (MAS).  Standardization
    Agreement, ed No. 3.  "Mutual Acceptance of Government
    Quality Assurance," STANAG No. 4107, 4 February 1977.

NATO Standardization, Interoperability, and Readiness and H. R.
    11607 and H. R. 12837.  Hearings Before the Special Sub-
    committee on NATO Standardization, Interoperability and
    Readiness, US Congress, Washington, DC  20515

Nixon, Richard M.  The Real War.  n.p.: Warner Book, 1970.

Parker, LTC Glynn E.  "NATO and Rationalization, Standardization,
    and Interoperability."  The Army Logistician, March-April
    1980, pp. 24-27.

Patterson, 1LT Ralph W., USA.  Rationalization, Standardization
    and Interoperability:  Tactical, Economic and Political
    Considerations, Defense Systems Management College, Fort
    Belvoir, VA  22060.

Perry, W. J., Under Secretary of Defense. "Metric Specifications and Standards." Memorandum to Assistant Secretaries of the Army, Navy, Air Force, and Directors of Defense Agencies, 7 May 1980.

Problems in the Standardization and Interoperability of NATO Military Equipment, Part I, US Congress, Washington, DC 20515.

Report to the Congress on Standardization in NATO: Improving the Effectiveness and Economy of Mutual Defense Efforts, January 1978.

Steele, Danton G., II. NATO Rationalization/Standardization/ Interoperability: Is It a Feasible Goal and What Will Its Effect Be on NATO and the Acquisition Community? US Army Logistics Management Center (Florida Institute of Technology), Fort Lee, VA 23801.

Strategic Studies Institute. NATO Rationalization and the US Army. Carlisle Barracks, PA: Army War College, 30 April 1977.

Walsh, John B. "Initiatives in Standardization/Interoperability." NATO Review, October 1978, pp. 8-11.

Westmoreland, Mr., Office of International Research and Development, DARCOM, RSI Coordination Office, Alexandria, VA. Interview, 29 October 1980.

Williams, William B.; Perry, Virginia W.; Candy, Harold F. NATO Standardization and Interoperability: Handbook of Lessons Learned. Fort Lee, VA: US Army Procurement Research Office, 1978.

Williamson, Earl, Jr. "A Study of Potential Savings from NATO Standardization." US Army Concepts Analysis Report to AORS XVI Symposium, 12-14 October 1977, pp. 323-326.

Wolf, Charles. "Offsets," Standardization, and Trade Liberalization in NATO. Santa Monica, CA: The RAND Corporation, 1976.

Wooten, CPT Richard E., USA. The Buy American Act in Light of NATO RSI, US Army Logistics Management Center (Florida Institute of Technology), Fort Lee, VA 23801.

# MILITARY DIRECTIVES

AR 10-36, US Army Standardization Groups.

AR 11-8, Principles and Policies of the Army Logistics System, Washington, DC: Department of the Army, 18 March 1976.

AR 12-2, Executive Agency Designation for Selected Army Security Assistance Functions/Activities.

AR 34-1, Standardization: United States Army Participation in International Military Rationalization/Standardization/Interoperability (RSI) Programs, 15 October 1979.

AR 34-2, Standardization: Rationalization, Standardization, and Interoperability, 15 May 1979.

AR 70-1, Army Research, Development, and Acquisition, Washington, DC: Department of the Army, 1 May 1975.

AR 70-32, Work Breakdown Structures for Defense Materiel Items. Washington, DC: Department of the Army, 20 March 1969.

AR 70-58, International Professional (S&E) Exchange Program, 17 September 1976.

AR 380-10, Department of the Army Policy for Disclosure of Military Information to Foreign Governments, 15 August 1977.

AR 550-51, Authority and Responsibility for Negotiations, Concluding, Forwarding, and Depositing of International Agreements, effective 15 July 1977.

AR 700-127, Integrated Logistics Support, Washington, DC: Department of the Army, 11 April 1975.

DA Pamphlet 700-127, Integrated Logistic Support Management Model (ILSMM) and Glossary.

DODD 2000.9, International Coproduction Projects and Agreements between the US and Other Countries or International Organizations, 23 January 1974.

DODD 2010.1, Support of International Military Activities, 2 September 1981.

DODD 2010.5, DOD Participation in the NATO Infrastructure Program, 4 October 1976.

DODD 2010.6, Standardization and Interoperability of Weapon Systems and Equipment Within the North Atlantic Treaty Organization (NATO), 6 July 1981.

DODD 2010.8, DOD Policy for NATO Logistics.

DODD 2010.9, Mutual Support between the United States and Other NATO Forces, 25 August 1980.

DODD 2125.1, Military Assistance Program Offshore Procurement, 18 June 1970.

DODD 3100.3, Cooperation With Allies in Research and Development of Defense Equipment, 27 September 1963.

DODD 3100.4, Harmonization of Quantitative Requirements for Defense Equipment for the US and Its Allies, 27 September 1963.

DODD 3100.8, The Technical Cooperation Program, 11 September 1973.

DODD 4000.6, Policy on Logistic Support of United States Non-governmental, Nonmilitary Agencies and Individuals in Overseas Military Commands, 23 January 1976.

DODD 4000.25, Administration of Defense Logistics Standard Systems, 18 November 1983.

DODD 4120.3, DOD Standardization Program, 10 February 1979.

DODD 4630.5, Compatibility and Commonality of Equipment for Tactical Command and Control, and Communications, 28 January 1967.

DODD 5000.1, Major System Acquisition Procedures, 8 March 1983.

DODD 5000.9, Standardization of Military Terminology, 23 March 1981.

DODD 5000.12, Data Elements and Data Codes Standardization Procedures, 27 April 1965.

DODD 5000.27, Logistics Data Element Standardization and Management Program, 28 March 1975.

DODD 5000.39, Acquisition and Management of Integrated Logistic Support for Systems and Equipment, 17 November 1983.

DODD 5010.19, Configuration Management, 1 May 1979.

DODD 5100.27, Delineation of International Logistics Responsibilities, 29 December 1964.

DODD 5100.53, US Participation in Certain NATO Groups Relating to Research, Development, Production, and Logistic Support of Military Equipment, 29 July 1967.

DODD 5154.19, Defense Logistics Studies Information Exchange (DLSIE), 13 July 1972.

DODD 5230.11, Disclosure of Classified Information to Foreign Governments and International Organizations, 2 March 1979.

DODD 5530.3, International Agreements, 6 December 1979.

DODD 5550.7, Standardization of Terminology, Forms, and Style of Legislation Prepared in DOD, 28 September 1966.

DODI 2000.8, Cooperative Logistics Support Arrangements, 12 February 1981.

DODI 2010.4, US Participation in Certain NATO Groups Relating to Research, Development, Production, and Logistic Support within the NATO, 12 December 1967.

DODI 2050.1, Delegated Approval Authority to Negotiate and Conclude International Agreements, 6 July 1977.

DODI 5010.15, Standardization of Work Measurements (Vol 2 through 10), June 1977.

DODI 7000.10, Contract Cost Performance, Funds Status, and Cost/Schedule Reports, 28 September 1966.

## LETTERS AND MESSAGES PERTAINING TO RSI

1. DA letter, DAMO-ZN, 5 April 1979, subject: Army Priorities for Rationalization, Standardization, and Interoperability.

2. Message, HQ DARCOM, DRCPS-C, 212030Z Aug 79, subject: Materiel Readiness - Rationalization, Standardization, Interoperability (RSI).

3. DARCOM letter, DRCPS-C, 24 July 1981, subject: DD Forms 1498 in Support of Development of FY 82-83 Study Program and Priority Problem Areas.

4. DA letter, 24 March 1981, subject: Readiness Rationalization, Standardization, and Interoperability (RSI) Initiatives in the Area of Hardware Interoperability.

5. DARCOM letter, DRCPI, 6 December 1979, subject: Readiness Rationalization, Standardization, Interoperability (RSI) Initiatives in the Area of Interoperability.

6. VCofS letter, OCofSDA, 18 December 1981, subject: Gen Vessey to Gen Keith, Significant Effort to Achieve Interoperability and Standardization Between ABCA Armies.

7. DARCOM letter, DRCDE-I, 1 February 1982, subject: Gen Keith to Mr. Myers, Ensure Support and Compliance to Support Effort to Achieve Interoperability and Standardization.

8. DARCOM letter, DRCDE-C, 16 March 1982, subject: Materiel Readiness Support Activity - Materiel Readiness - Standardization, and Interoperability (RSI) Operational and Support Systems.

9. Memorandum, DRCRE-C, HQ DARCOM, 22 January 1982, subject: Trip Report - Materiel Readiness Support Activity (MRSA), Lexington, KY, 6-7 Jan '82, Materiel Readiness - RSI

10. HQ, USA Aviation Research and Development Command, Commander's Guidance Statement (CGS) #54, DRDAV-G, subject: RSI Program Management, dated 6 March 1980, para 2 (a through h).

11. DARCOM letter, DRCPS-C & DRCRE-I, 12 March 1980, subject: Relationship Between RSI Initiatives and DA Publications.

12. DARCOM letter, DRCPS-C, 24 March 1981, subject: Readiness RSI Initiatives in the Area of Hardware Interoperabilities.

13. DARCOM DF, DRCRGIP/DRCPS-C, Comments DRCRG, 4 November 1980, subject: Readiness RSI Mission Statement to DARCOM-R 10-2.

14. DARCOM MFR, Briefing to DCGMR, DRCPS-C, 28 August 1979, subject: Readiness Rationalization, Standardization, and Interoperability.

15. DA letter, 8 August 1977, subject: NATO Focal Point for the Army Secretariat and Army Staff (DATRO Charter).

16. DA letter, 19 August 1977, subject: Consideration of Standardization/Interoperability at ASARC/DSARC Briefings.

17. DARCOM letter, DRCPS-C, 12 August 1980, subject: Readiness Rationalization, Standardization, and Interoperability (RSI) Initiatives in the Area of Hardware Interoperability.

18. DARCOM letter, DRCPS-C, 23 March 1981, subject: Readiness RSI Initiatives in the Area of Hardware Interoperability.

19. DARCOM letter, DRCPS-C, 27 April 1981, subject: Readiness Rationalization, Standardization, and Interoperability RSI Initiatives in the Areas of Hardware Interoperability.

20. TRADOC letter, ATCD-IAPD-N, 15 January 1980, subject: RSI Initiatives, BG Vuono to LTG Hardin, Jr.

21. TRADOC letter, ATCD-YN, 17 July 1981, subject: Readiness RSI Initiatives in the Area of Hardware Interoperability.

22. TSACOM letter, DRSTS-B, 23 April 1981, subject: Readiness Rationalization, Standardization, and Interoperability (RSI) Initiatives in the Area of Hardware Interoperability.

23. DAMO Memo, 18 July 1977, signed by LTG Meyer, requesting milestones on a list of recommendations/actions w/43 actions resulting from DA study on S/I.

24. Assistant Secretary of Defense Memo, 25 April 1977, subject: List of Items Excluded from Competition under US-UK Reciprocal Defense Procurement.

25. SECDEF Memo, 26 August 1977, subject: Interim Policy Statement and Export Control of United States Technology.

26. SECDEF Memo, 12 September 1977, subject: Adviser to the Secretary and Deputy Secretary of Defense for NATO Affairs.

27. SECDEF Memo, 21 December 1977, subject: Export of Technical Data.

28. Joint Chiefs of Staff Memo for DDR&E, 12 September 1977, subject: High Priority Categories for NATO Standardization or Interoperability (S/I).

29. DEPSECDEF Memo, 4 May 1978, subject: General Policy on Compensatory Coproduction and Offset Agreements with Other Nations.

30. Study Directive, USAWC, Carlisle Barracks, DAMO-SSP, subject: NATO Rationalization and Standardization Study - DAOSDCofS OPLNS, dated 27 December 1976.

31. MFR, HQ DARCOM, Briefing to DCGMR, DRCPS-C, 28 August 1979, subject: Readiness Rationalization, Standardization, and Inter-operability (RSI).

32. Letter, DRXSY-LLSO, AMSAA, 19 April 1984, subject: Rationali-zation, Standardization, and Interoperability (RSI) Readiness Functions.

(Listed by DLSIE LD Number)

LD Number:  39128A

Title:  NATO Rationalization and the US Army.

Sponsor:  Office, Deputy Chief of Staff for Operations and Plans, DA, Washington, DC  20310

Authors:  COLs John H. Madison, Jr., and Edward P. Freedman; LTC James A. Frick, USA, William B. Hankee, et al.

Abstract:  This study reflects the need for establishing a NATO actions program in the US Army to provide guidance and direction for numerous actions and activities.  Such a program could establish overall credibility to US Army interest in achieving greater combat effectiveness through increased cooperation with allies.  Current actions and developments are discussed to support the program need.  Conclusions are reached and recommendations offered on US policy for NATO rationalization, NATO command and control actions, and management of US Army participation in NATO rationalization efforts. *Extensive bibliography included.*


LD Number:  39160AZ

Title:  Analysis of NATO Standardization and Interoperability (U).

Sponsor:  Office, Deputy Chief of Staff for Operations and Plans, DA, Washington, DC  20310

Authors:  COL John A. Crofts; LTCs Frank L. Smith and Dean A. Rodeman; MAJ James L. Wilmeth, III, USA, et al.

Abstract:  This analysis addresses the potential savings in logistics structure spaces and the likelihood of realizing these potential savings.  An assessment of relative operational advantages that could be obtained by increased standardization of NATO weapons, improved NATO force interoperability, and sharing of standardized logistic stocks with current force structures and weapon types is addressed in the study.  The analysis is directed to those countries providing forces to the AFCENT zone of NATO.

LD Number: 43467A

Title: NATO Standardization and Interoperability - Handbook of
Lessons Learned.

Sponsor: Office, Deputy Chief of Staff for Research, Development,
and Acquisition, DA, Washington, DC 20310

Authors: William B. Williams, Virginia W. Perry, and Harold F. Candy.

Abstract: The purpose of this study was to develop a handbook of
lessons learned based on an analysis of selected stan-
dardization and interoperability programs, primarily
Army, in which the US has participated. It is felt that
the problems inherent in achieving standardization can
be alleviated to some degree by analyzing and documenting
the experiences of past programs. For the most part,
the study concentrated on those programs on which the
US was dependent on Europe for the technology. The
objectives were to identify the political, legal, eco-
nomic and technical problems encountered by the Army
and DOD and to develop guidelines for future programs.

Conclusions: Not applicable.

Recommendations: (1) A handbook of lessons learned be published
and disseminated. (2) Responsibilities and
procedures for insuring handbook currency be
promulgated in a Department of the Army or
US Army Materiel Development and Readiness
Command (DARCOM) regulation. (3) All future
rationalization, standardization and interopera-
bility (RSI) lessons learned be incorporated in
the handbook and in the Defense Logistics Studies
Information Exchange (DLSIE) data base.


LD Number: 44346C

Title: Rationalization, Standardization and Interoperability:
Tactical, Economic and Political Considerations.

Sponsor: Program Manager, Defense Systems Management College,
Fort Belvoir, VA 22060

Author: 1LT Ralph W. Patterson, USA.

Abstract: Rationalization, standardization, and interoperability
(RSI) of weapons systems and equipment within the North
Atlantic Treaty Organization (NATO) has become an inte-
gral part of planning for the defense of Western Europe.
When the North Atlantic Treaty was ratified some 30 years

13

ago, Europe was just emerging from the devastation
of World War II. The United States was producing 50
percent of the gross world product. Consequently,
Western European countries could devote their resources
and energies to rebuilding under a protective nuclear
shield provided by the US. A major shortcoming of the
treaty was that it failed to provide for the sharing of
the defense burden once Europe had recovered. The
massive arms buildup by the Warsaw Pact has brought
this into focus. Officials of the NATO nations generally
agree that the forging of an effective military machine
will require a collective military-industrial effort.
The question, then, is not what is needed. The real
question addresses the how and why of RSI. In this
article, the author discusses the tactical, economic
and political considerations.

LD Number:   45253A

Title:   NATO Rationalization/Standardization/Interoperability:   Is
It a Feasible Goal and What Will Its Effect Be on NATO and
the Acquisition Community?

Sponsor:   US Army Logistics Management Center (Florida Institute
of Technology), Fort Lee, VA   23801

Author:   Danton G. Steele, II.

Abstract:   The purpose of this paper is to assess the validity,
feasibility, and probable success of current efforts
to achieve NATO rationalization, standardization and
interoperability (RSI) and to determine the impact
these efforts will have on selected components within
the acquisition community and on the creation of a
viable cooperative fighting capability within NATO.

Conclusions:   The position taken against total RSI/standardization
and the creation of a common logistics base is
founded on current, not easily-reconciled differences
that make standardization impractical and too costly
to envision for the immediate, foreseeable future.

LD Number:   45709F

Title:   NATO and Rationalization, Standardization, and Interopera-
bility.

Sponsor:   Army Logistician, US Army Logistics Management Center,
Fort Lee, VA   23801

Author: LTC Glynn E. Parker, USA.

Abstract: During the past year an increasingly popular subject
         of discussion has been what has come to be known as
         rationalization, standardization, and interoperability,
         or RSI.  The RSI program when it is fully understood,
         planned, and implemented by the NATO alliance members,
         will lead to a blending of the allies' separate efforts
         into common programs that will result in greater effec-
         tiveness and efficiency.  This article discusses RSI
         and how it will keep the NATO flag flying.

LD Number:  46065A

Title:  Rationalization, Standardization, Interoperability (RSI) -
        The Family of Weapons Concept.

Sponsor:  Industrial College of the Armed Forces, Fort Lesley J.
          McNair, Washington, DC  20319

Authors:  LTCs Robert N. Grove, Donald J. Callahan, Howard E.
          Espin, Walter J. Gabrysiak, USA, et al.

Abstract:  This report relates to rationalization, standardization,
           and interoperability (RSI) within the North Atlantic
           Treaty Organization and specifically addresses the
           family of weapons concept.  The report contains a
           background chapter, chapters on three technical issues
           (acquisition, technology transfer, and industrial), a
           chapter each on seaborne, land, and C3 systems, a chapter
           on the Delphi survey made in conjunction with this study,
           and a final chapter containing conclusions.  Appendices
           backing up the basic text are included in the back of
           the report.

LD Number:  46781A

Title:  Rationalization, Standardization, Interoperability (RSI) -
        A Policy Statement.

Sponsor:  National Defense University, Fort Lesley J. McNair,
          Washington, DC  20319

Authors:  CPTs Robert E. Alexander and James E. McNulla, USN;
          COL Michael J. Babbidge, USAF; CDR Larry E. Blose, USN,
          et al.

Abstract:  This report relates to rationalization, standardization,
           and interoperability (RSI) within the North Atlantic
           Treaty Organization and specifically assesses why

progress toward weapon-system collaboration has been so difficult to achieve. The report contains a background chapter, a chapter of key policy issues, one on structural and motivational issues, a chapter on the Delphi survey made in conjunction with this study and a final chapter containing conclusions and recommendations. Appendices backing up the basic text are included in the back of the report.


LD Number:  48018A

Title:  The Buy American Act in Light of NATO RSI.

Sponsor:  US Army Logistics Management Center (Florida Institute of Technology), Fort Lee, VA  23801

Author:  CPT Richard E. Wooten, USA.

Abstract:  The purpose of this research effort was to ascertain the relative importance of the Buy American Act in DOD procurement based on waivers granted and the frequency of applying the domestic preference restrictions of the Act in DOD procurement actions. The guiding question of the research effort was "Does the Buy American Act serve the public's best interest in DOD procurement?"


LD Number:  49851E

Title:  Major RSI Approaches.

Sponsor:  Program Manager, Defense Systems Management College, Fort Belvoir, VA  22060

Author:  John S. Fargher, Jr.

Abstract:  This article is based on chapter two of the guide for the management of multinational programs. The guide was developed by the Defense Systems Management College for program managers involved in international logistics.


LD Number:  50908A

Title: NATO RSI Policy:  An Overview.

Sponsor:  Kaitz (Edward M.) & Assoc. Inc., 1800 M St NW, Suite 310 North, Washington, DC  20036

Authors: Edward M. Kaitz and Heinz A. Gorges.

Abstract: This paper examines the complex issues surrounding the implementation of NATO rationalization, standardization, and interoperability (RSI) policy and in particular as it impacts on the role of the program manager. Further, the underlying basis for the discussion is to associate various key words of RSI policy with various key functions, i.e., to examine the implications of policy-level RSI for the practical implementation-level of the policy. This paper should be regarded as a first step in an examination and clarification of the military, economic, and political issues surrounding NATO RSI policy.

LD Number: 51005

Title: Identification/Documentation of Readiness RSI Functions.

Sponsor: US Army Materiel Development and Readiness Command (Dir for Progs, Anal and Eval), 5001 Eisenhower Ave., Alexandria, VA 22333

Abstract: The lack of standardization of RSI (rationalization, standardization, and interoperability) mission functions and procedural manuals severely constrain visibility and understanding of the program throughout DARCOM and is reflected in the interface shortfalls. This study will (1) examine the nature and extent of interface voids and take action to establish required interfaces in official documents; (2) identify and update mission and function manuals; and (3) standardize RSI functions/subfunctions at all levels to provide visibility and improved management and control. The study cannot be limited to the DARCOM RSI program. Consideration must be given to establish interfaces both internal and external to DARCOM.

LD Number: 52009A

Title: Interoperability Handbook on Logistics.

Sponsor: US Army Training and Doctrine Command, Fort Monroe, VA 23651

Abstract: This interoperability handbook is designed to support US/German cooperation in the field of logistics. Its purpose is to create, on a long term basis, those fundamentals for interoperability in the logistics field which are indispensable for mutual support within NATO.

17

LD Number: 52012J

Title: Report of Trip to 9th Meeting, Land Force Logistics
Working Party and 2d Supply Systems Sub-Committee,
NATO HQ, Brussels, Belgium.

Sponsor: US Army Materiel Development and Readiness Command,
5001 Eisenhower Ave., Alexandria, VA 22333

Author: Antonio J. D'Ambrosio.

Abstract: This report presents the results of a trip of Mr.
Antonio J. D'Ambrosio to NATO HQ, Brussels, Belgium,
30 November - 4 December 1981. The purpose of
attendance at subject meeting was to participate in
the role of logistics technical support representative
to the senior US representative, LOGWP and Chairman,
SSS-C.


LD Number: 52012K

Title: Reforger Exercise 81.

Sponsor: US Army Materiel Development and Readiness Command,
5001 Eisenhower Ave., Alexandria, VA 22333

Author: Antonio D'Ambrosio.

Abstract: This memorandum presents a trip report of DARCOM's
representative, at Reforger Exercise 81. The purpose
was to brief units visited on DARCOM interoperability
initiatives, priorities, and objectives.


LD Number: 52203A

Title: Agreements on Inter-NATO Defense Trade.

Sponsor: US General Accounting Office, 441 G St NW, Washington,
DC 20548

Abstract: The broad policy of rationalization, standardization,
and interoperability became the cornerstone of US
policies within NATO in the 1970s. To address NATO
cooperative armaments needs, the DOD encouraged common
production of weapons and entered into memorandums of
understanding to reduce barriers to inter-NATO defense
trade. This report presents the results of a review
of the general memorandum of understanding between the
DOD and 11 allies of the NATO to determine whether
these agreements had provided increased reciprocal

opportunities for firms of one country to compete for
defense procurements by another country.


LD Number:   53811A

Title:   DARCOM OIRD's Role in NATO Rationalization/Standardization/
         Interoperability.

Sponsor:   US Army Materiel Development and Readiness Command,
           5001 Eisenhower Ave., Alexandria, VA   22333

Authors:   Robert A. Gessert, J. Ross Heverly, and Arthur T. Port.

Abstract:   Rationalization, standardization, and interoperability
            have become central concepts to improvement of NATO's
            conventional capability.  For these concepts to become
            realities depends heavily on the full and prudent par-
            ticipation of the service materiel full scale development
            phase, the Office of International Research and Develop-
            ment (OIRD) will need to insure through it both the
            Department of Defense and the Department of State and
            their dealings with licensing and co-production policies,
            technology transfer, and the potential for the rationali-
            zation of European defense industry.

Conclusions:   (1) The best opportunities for NATO RSI occur *before*
               a system enters life cycle management.  (2) Inter-
               national cooperation in materiel development in par-
               ticular contains both obstacles and hazards as well
               as opportunities.  (3) During the full scale develop-
               ment phase, the Office of International Research and
               Development (OIRD) will need to insure through its
               monitoring that concerns for reliability and produci-
               bility are reconciled with standardization/interopera-
               bility considerations.  Additional conclusions are
               listed.

Recommendations:   (1) OIRD ensure through liaison and by working
                   with DARCOM membership that the joint working
                   groups receive necessary information and use it
                   properly.  (2) OIRD should monitor the preparation
                   of the initial test design plan and outline test
                   plan to ensure that foreign developments and NATO
                   RSI considerations are given adequate and realis-
                   tic attention.  (3) OIRD initiate negotiations
                   for obtaining any foreign test equipment items
                   needed in an experimental test program and for
                   obtaining the results of any foreign test that
                   may be relevant.  Additional recommendations are
                   listed.

LD Number:   54670A

Title:   NATO Standardization, Interoperability, and Readiness
         and H. R. 11607 and H. R. 12837.   Hearings Before the
         Special Subcommittee on NATO Standardization, Inter-
         operability and Readiness.

Sponsor:   US Congress, Washington, DC   20515

Abstract:   This is the report of hearings which were held to:
            (1) study the present state of standardization and
            interoperability within NATO; (2) identify areas of
            readiness problems in the alliance which result from
            a lack of joint procedures, doctrine or standard equip-
            ment; (3) determine the most feasible approach to
            achieving greater standardization and interoperability
            where it is determined that such will contribute to
            improved readiness.


LD Number:   54671A

Title:   Problems in the Standardization and Interoperability of
         NATO Military Equipment, Part 1.

Sponsor:   US Congress, Washington, DC   20515

Abstract:   This is the report of a review of efforts of the
            Department of Defense to strengthen the conventional
            forces of NATO through greater standardization and
            interoperability of military equipment within the
            alliance.


LD Number:   54672A

Title:   Interim Report on the Standardization and Interoperability
         of NATO Military Equipment, Fifteenth Report by the
         Committee on Government Operations.

Sponsor:   US Congress, Washington, DC   20515

Abstract:   This report is based on a study made by the Legislation
            and National Security Subcommittee which has been con-
            cerned with problems affecting NATO's defense posture.
            Many of the figures cited in this report were obtained
            from the United States military posture for Fiscal Year
            1978, submitted to Congress by General George A. Brown,
            Chairman of the Joint Chiefs of Staff, and from other
            unclassified military sources.

LD Number:  55795A

Title:  Minutes of the First US Workshop on Alliance Logistics -
        21 March 1983.

Sponsor:  Office of the Deputy Chief of Staff for Logistics,
          Department of the Army, Washington DC  20310

Abstract:  The First US Conference on Alliance Logistics helped
           to establish a foundation for conducting semi-annual
           gatherings of US personnel (both civilian and military)
           who are involved in alliance logistics.  The objective
           of future conferences will be to ensure that these
           individuals are apprised of, and are acting in concert
           with, Army goals and Department of the Army policy
           guidelines in regard to logistics.  This document
           presents the minutes of the first conference.


LD Number:  55795B

Title:  Minutes of the Second US Workshop on Alliance Logistics -
        12-14 July 1983.

Sponsor:  Office of the Deputy Chief of Staff for Logistics,
          Department of the Army, Washington, DC  20310

Abstract:  This document presents the minutes of the second in a
           continuing series of workshops on US Alliance Logistics.
           The workshop is an ODCSLOG initiative to ensure that
           US Army representatives to the various alliance logis-
           tics fora speak with one voice.  In addition, the
           workshop provides a forum for these individuals to
           share information, to receive guidance, and to be kept
           abreast of current and projected activities in alliance
           rationalization, standardization, and interoperability.

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