

## DISTRIBUTION OF SOURCE CODE CENTRALLY DEVELOPED SYSTEMS

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### 1. GENERAL

**1.01 Purpose:** This section states the Bell System policy regarding the distribution to the Operating Telephone Companies (OTCs) of source code for deliverable centrally developed information systems.

**1.02** Whenever this section is reissued, the reason(s) for reissue will be given in this paragraph.

**1.03 Applicability:** This section is issued as a standard. It applies to developers and users of centrally developed information systems, regardless of size, which are intended to be maintained by a central developer or a release agent. It does not apply to those systems internal to Western Electric and Bell Laboratories and those that are integrated into the switching and transmission components of the network or are integrated into customer products.

### 2. DEFINITIONS

**2.01** All terms and acronyms used in this section are defined in Section 007-200-201, Glossary of System Development Terms and Acronyms. The defi-

nitions provided in this part are limited to those terms particularly pertinent to this section.

**2.02 Binary Executable Module Form:** The application program linked with library sub-routines, all in machine language and forming an executable package. For example, this is known as a "load module" for a system developed for an IBM operating system, as an "a.out" file for a system developed for the UNIX\* operating system, and as a "type 6" file for a system developed for the Hewlett-Packard Real Time Executive operating system.

**2.03 Source Code:** A high-level language code that is part of an information system and generally produced by programmers and input into a compiler (or similar) program(s) and results in the production of machine language instructions. The following applies for use of this section:

(a) The term **source code** shall refer to the source code itself as well as to a listing of the source code.

(b) For systems available through Western Electric, the source code listings are known as Program Listings (PRs).

(c) In this section, the following are not considered to be source code:

- Text source code intended for input to a text editor or formatter when the prepared output has traditionally been delivered in paper form to the operator or user of a Centrally Developed System (CDS).
- Job control language statements in the form in which they are used to control an operating system.
- Control cards that are used to control a software system such as a report generator or any inquiry processor. (However, the source

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### NOTICE

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Bell System except under written agreement

code for the software system is covered in this section.)

### 3. POLICY

**3.01** It is the policy of AT&T to release CDSs in binary executable module form. Source code for CDSs is not normally distributed.

**3.02** However, source code is provided for specific technical requirements (Part 4). The procedures to follow to obtain source code for a CDS under these technical conditions are documented by the release agency.

### 4. SPECIFIC TECHNICAL REQUIREMENTS

**4.01** Under the technical requirements specified in this part, users may not modify any attribute which compromises the designed functions of the CDS.

**4.02** Source code that is released for technical reasons shall be used for intended purposes only. The OTCs shall not utilize the material for other purposes without requesting and obtaining a policy exception (Part 5).

**4.03 *Data Base Management System Requirements:*** Source code for data storage and access software is delivered in accordance with Section 007-340-102, Data Base Administration Interface for Deliverable Centrally Developed Systems.

**4.04 *Installation/Operations Requirements:*** Some CDSs require the user to modify the source code to properly install and use the system (eg, system input/output commands, modification of output reports to satisfy local center needs, or the selection of output reports to the exclusion of others). The necessary source code is delivered with the system for use only in the manner specified by the system documentation.

**4.05 *Diagnostic Aid Requirements:*** For mini-computer based systems funded by Western Electric where the organization responsible for the maintenance of the computer hardware requires a source listing as an aid in diagnosing and repairing hardware troubles or for systems support (both hardware and software) and with the concurrence of

the release agency, the release agency will make available program listings.

**4.06** All correspondence concerning the ordering of program listings as diagnostic aids for mini-computer maintenance should be addressed to:

Reproduction Service Department  
Western Electric  
Hawthorne Station  
Chicago, IL 60623

### 5. REQUESTING A POLICY EXCEPTION

**5.01** This part describes the procedure to be followed to request an exception to the policy statements in Part 3.

**5.02** If deemed essential, an exception to the policy may be granted by the AT&T Assistant Vice-President, Information Systems. In addition:

(a) For systems available through Western Electric, an exception is granted with the concurrence of the Western Electric General Manager of the Operations Systems Product Line Planning and Management (PLPM) organization.

(b) For systems available through Bell Laboratories, an exception is granted with the concurrence of the Executive Director of the organization responsible for development and software maintenance.

**5.03** A request for source code must be sent to the AT&T Assistant Vice-President, Information Systems, by the vice-president in the OTC whose organization has responsibility for maintaining the system software.

**5.04** A request for an exception is not evaluated unless all of the following conditions are met:

(a) A full statement is provided of the situation that resulted in the request for an exception and of alternatives that were considered.

(b) No feasible alternative solutions have been found or all feasible alternative solutions involve substantially greater out-of-pocket expenses to the OTC or to the Bell System.

(c) There are no interfaces with other CDSs affected by the changes contemplated by the OTC.

(d) The request includes a statement that the OTC intends to maintain any software that they modify.

(e) The request includes a statement that the OTC accepts billing for any additional costs incurred (because of the OTC modification) by the release agency for diagnostic support, if required.

**5.05** When an exception request is approved under the procedure described in this part, it is valid until the availability of a new generic/new version (ie, a new major release). If the OTC continues to require source code, another exception request must be prepared and submitted for evaluation.

**5.06** If funding for the maintenance and continued development of a CDS is canceled, source code may be released to those companies planning to continue using the system if it is determined by the AT&T Assistant Vice-President, Information Systems, to be in the best interests of the Bell System. The distribution of the source code will comply with paragraph 6.01 and Part 7.

## **6. BILLABLE CHARGES**

**6.01** The OTCs receiving source code or other material as a result of a policy exception are charged for the reproduction and shipment of the material.

**6.02** If a "trouble" is reported by an OTC as a trouble caused by a centrally developed binary executable module but analysis discloses that the problem resulted from changes made to source code

by the OTC, the cost of programmer and computer time expended in diagnostic activities is billed back to the OTC according to the prevailing rates.

## **7. PROPRIETARY RESTRICTIONS**

**7.01** The proprietary nature of source material distributed under the provisions of this section shall not be changed by virtue of that distribution.

**7.02** Each distribution of source code under this section should be for Bell System purposes only. The following guidelines apply to this type of distribution. (Additional information on the delivery of program listings [source code] may be found in Section 007-230-210, System Deliverable Documentation.)

(a) The receiving company should not further distribute the software. Any request for further distribution should be referred to the release agency.

(b) A restrictive clause, such as the one set forth below, should be included with the source code and documentation to prevent inadvertent release to other parties:

*The Bell System software and associated documentation identified as (name) are provided by (name of release agency) to (name of receiving Bell System company) for internal Bell System use only. Neither the software nor its associated documentation should be disclosed by (name of receiving Bell System company) to any other entity without the express written permission of the (name of release agency).*