IIM
Integrated Information Management

HEWLETT PACKARD

Year 2000 Statement of Direction

Hewlett-Packard's Software and Services Division (SSD) of Chemical Analysis Group is prepared for the approaching millennium. HP's competencies in *Measurement, Computing and Communications (MC^2 strategy)*, uniquely positions HP to understand the breadth, importance, and complexity of comprehensively delivering hardware and software products that are Year 2000 (Y2K) Compliant. HP's overriding goal is to ensure that our customers make the Year 2000 transition as smoothly as possible.

Every new HP product that performs date processing is required to be certifiably compliant. Also, Hewlett-Packard Company has established a Year 2000 Program Office to guide the product and services efforts to achieve Year 2000 compliance. For additional Y2K information visit our web site at www.hp.com/year2000/index.html. This Year 2000 site is designed to provide you with product, tools and supplier information to assist in your transition planning. This site is updated regularly with the latest information available.

All Software and Services Division's products having a support life beyond 1999 are classified as certifiably compliant except for InstLink, which is classified as "No Date Related Processing." InstLink does no date related processing. The following products are Year 2000 certifiably compliant: ChemStudy Stability, QC Client, ChemLMS, ChemAccess, ChemStore C/S, Scheduler, and ChemServer 4910/4930. Please refer to the Y2K web site (www.hp.com/year2000/index.html) for specific product revision information and to determine if a specific product will require user action. All SSD service offerings are classified as "No Date Related Processing."

Table 1. CASD Year 2000 Certifiably Compliant Product Revisions and Availability

Definition of Year 2000 Compliance
HP has developed definitions to categorize current and planned states of its hardware and software products. HP will use the terms*: Certifiably Compliant and No Date Related Processing. It should be noted that other companies, including SSD partners, may use different definitions when describing Year 2000 Compliance.*

If an HP hardware or software product processes date data, and satisfies Conditions 1 to 6 in Table 1, passes the tests in Table 2 and the checklist in Table 3, then it is considered to be **Certifiably Compliant.** Products which do *no date related processing* will have a compliance status of **No Date Related Processing**.

Certifiably Compliant
1. Process date data accurately from, into, and between the twentieth and twenty-first centuries including but not limited to: a. calculating b. comparing c. sequencing dates.
2. Includes leap year calculations
3. Product is used in accordance with its product documentation.
4. All other products used in combination with the product properly exchange data with it.
5. It has successfully passed each test case listed in Table 2 and the products test suite permanently incorporates Table 2 test cases and conditions.
6. Product successfully passes a review based on the checklist given in Table 3.

Table 1. HP Standard for Year 2000 Compliance

Test Cases	Discussion
Dec. 31 1998 to Jan. 1 1999	1. System powered up, down 2. Program rollover in executing & non-executing states
Sept. 9 1999 to Sept. 10 1999	Tests related to 9-9-99
Dec. 31 1999 to Jan. 1 2000	Critical transition from 1999 to 2000
Feb. 28 2000 to Feb. 29 2000	Verify 2000 is identified as leap year
Feb. 29 2000 to March 1 2000	Another leap year test
Dec. 31 2000 to Jan. 1 2001	Test transition from 12-31-00 to 1-1-1

Table 2. Mandatory Test Cases for HP Product to be Certifiably Compliant

Checklist Item	Discussion
Basics	1. Data Structures within product 2. Date manipulation routines 3. Called System intrinsics 4. Date comparison routines 5. Date fields on reports
Module Interfaces External Date Data Exchanges	1. Data structures for interfaces inbound to each module 2. Data structures for interfaces outbound from each module
Product Interfaces External Date Data Exchanges	1. Data structures for interfaces inbound to product 2. Data structures for interfaces outbound from the product
Product Environment	1. Third-party tools and utilities 2. Date logic embedded in run logic of product

Table 3. HP Mandatory Checklist for Compliance

Comprehensive Compliance
To achieve comprehensive compliance, all software and hardware within an environment or a network of systems must be Year 2000 compliant. While this paper is not intended to characterize all possible Y2K environments and their status, it can identify typical SSD IIM application environments, which are sold and supported by HP.

Hardware
HP 9000 servers supporting ChemLMS LIMS, ChemStudy Stability, and ChemServer 4930 have been system tested and are certifiably compliant with the exception of the following models which will be obsolete before the end of 1998: 808S, 815S, 825S, 835S, 845S/SE, 635S, and 645S.

HP 9000 workstations supporting ChemLMS LIMS, ChemStudy Stability, and ChemServer 4930 have been system tested and are certifiably compliant

HP Vectra PCs introduced since the end of 1995 are certifiably compliant. HP NetServer PCs, supporting ChemAccess and ChemStore C/S applications, are certifiably compliant. The following models are compliant with customer action and require manual clock reset: LC 4/66, 4/100, and 5/66, 486 S20, 486 ST, 486 T, 486 U, LE and LF.

Operating Systems
HP's operating system partners, including Microsoft®, have assured HP that their operating systems are Year 2000 compliant. Please note that each partner has its own definitions for compliance. Please check their web sites for definition of Y2K terms.

To verify Year 2000 certifiably compliant information on HP–UX releases, please check our web site: www.hp.com/year2000/index.html.

SSD certifiably compliant product revisions will be certified on specific version(s) of operating systems. This information will be made available as product revisions are certified. Please check our web site chem.external.hp.com/cag/servsup/softdocs/casdy2k.html.

Databases
Oracle7 Server™ revision 7.3.x or later are certified as Year 2000 ready by Oracle Corp. Applicable SSD Year 2000 compliant product revisions will be certified on specific Oracle 7.3.x revision(s).

Microsoft Access 97, supporting ChemStore C/S is certified as Year 2000 ready by Microsoft Corp.

3rd Party Applications.
SSD application partner supplied components and their Year 2000 ready revisions are shown in Table 4. HP recommends that customers monitor the Year 2000 readiness of 3rd party vendor products through their web site and press releases.

HP makes no representation or warranty respecting the accuracy or reliability of information about non-HP products. Such information was provided by the manufacturers of those products. Customers are urged to contact the manufacturer directly to verify Year 2000 definitions, readiness and their product status.

Vendor (Product)	Status
Thru-Put Systems Inc (ChemServer 4930) www.tp.com	Target 3.4 is Year 2000 ready
Platinum Technologies (QC Client LIMS, ChemStudy Stability) www.platinum.com	InfoViewer rev. 3.2.1 is Year 2000 ready InfoDesigner rev. 3.2.1 is year 2000 ready
SPSS Inc (QC Client LIMS) www.spss.com	SPSS control charting module rev. 7.5 is Year 2000 ready.

Table 4. SSD Partner Components Year 2000 Status

Committed to Your Success
HP encourages customers to be fully aware of the potential impact that the Year 2000 could have on their business environment and their ability to compete in the 21st century. HP also encourages its customers to take responsibility for addressing needed changes as quickly as possible. HP has made every effort to ensure the accuracy of our product testing. However, because each customer's environment is different from HP's laboratory test environment, it is your responsibility to validate the Year 2000 readiness of these products in your own environment. Therefore, information about the Year 2000 status of HP products is provided "as is" without warranties of any kind.

Recognizing that customers have different business requirements, available resources and business needs, depending upon their applications and the nature of their business, HP has developed a broad Year 2000 solution framework. HP's products and services are available to help customers start the Year 2000 on the right foot with a competitive advantage.

For more information on HP laboratory data systems call your local Hewlett-Packard office today or visit www.hp.com/go/chem.

Printed in the U.S.A. 10/98

Pub No. 5966-4486E