

Introduction

- CSP mission, functionality, and subsystems
- Hardware configuration
- Graphical User Interface
- CSP basic operations
- CSP resource operations
- File menu
- Options menu
- Parameter operations

CSP Mission

- Automate activities of a fixed-base SSO TCC and BCC
- Consolidated DSSCS and GENSER message handling
- Tailorable to satisfy Tactical/Mobile communication requirements
- Satisfy DIA Circular 5030.58-M security requirements for an AMPE
- Satisfy DCA Circulars 370-D195-1 and 370-D195-3 for connection to AUTODIN

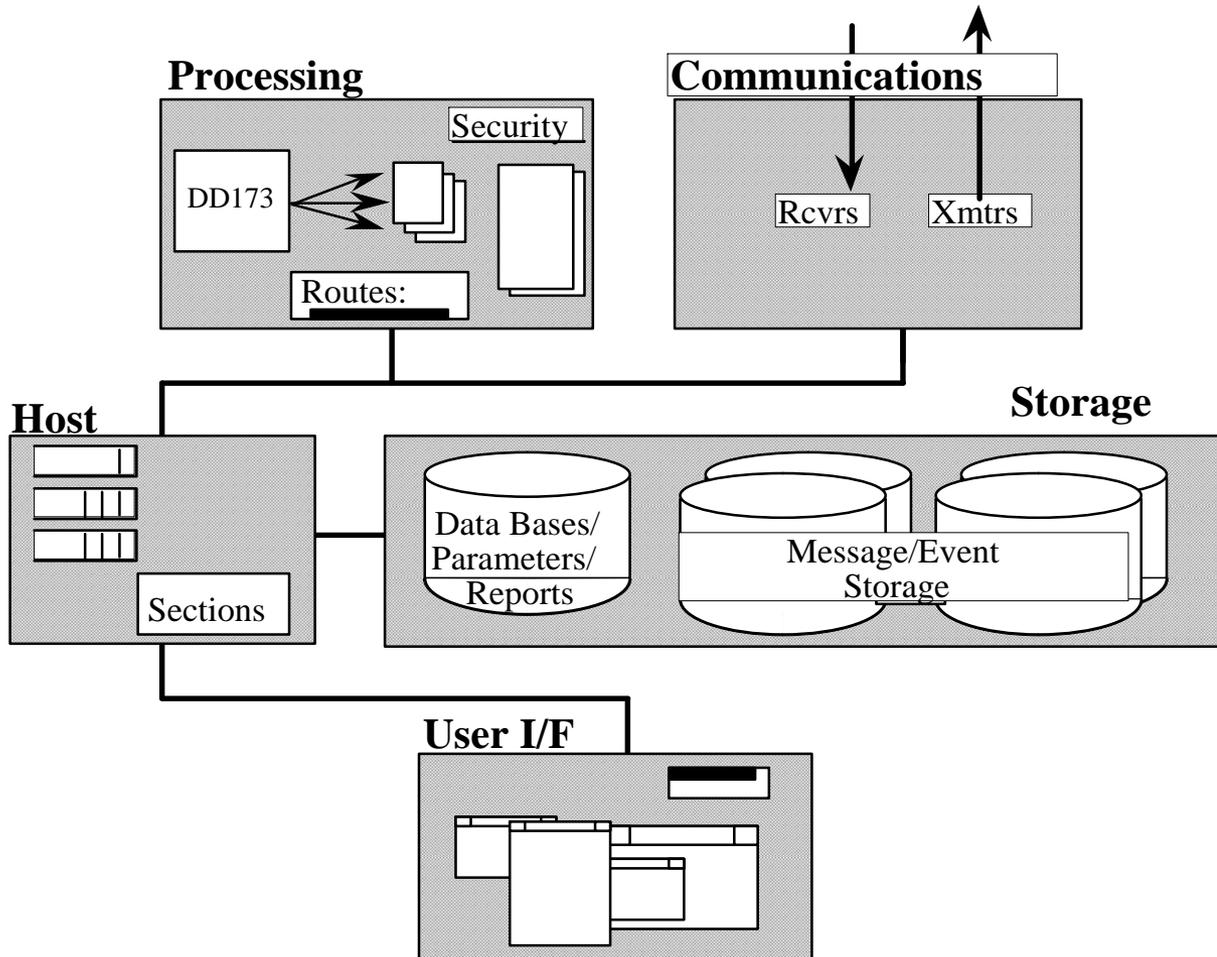
HOL CSP Functionality

- Primary functions:
 - Communications circuit automation
 - Message receipt
 - DD Form 173/ACP 126 conversion
 - Message format validation
 - Message security validation
 - Automated message routing determination
 - Manual dissemination
 - Message generation
 - Message edit
 - Message transmission
 - Message recall

HOL CSP Functionality

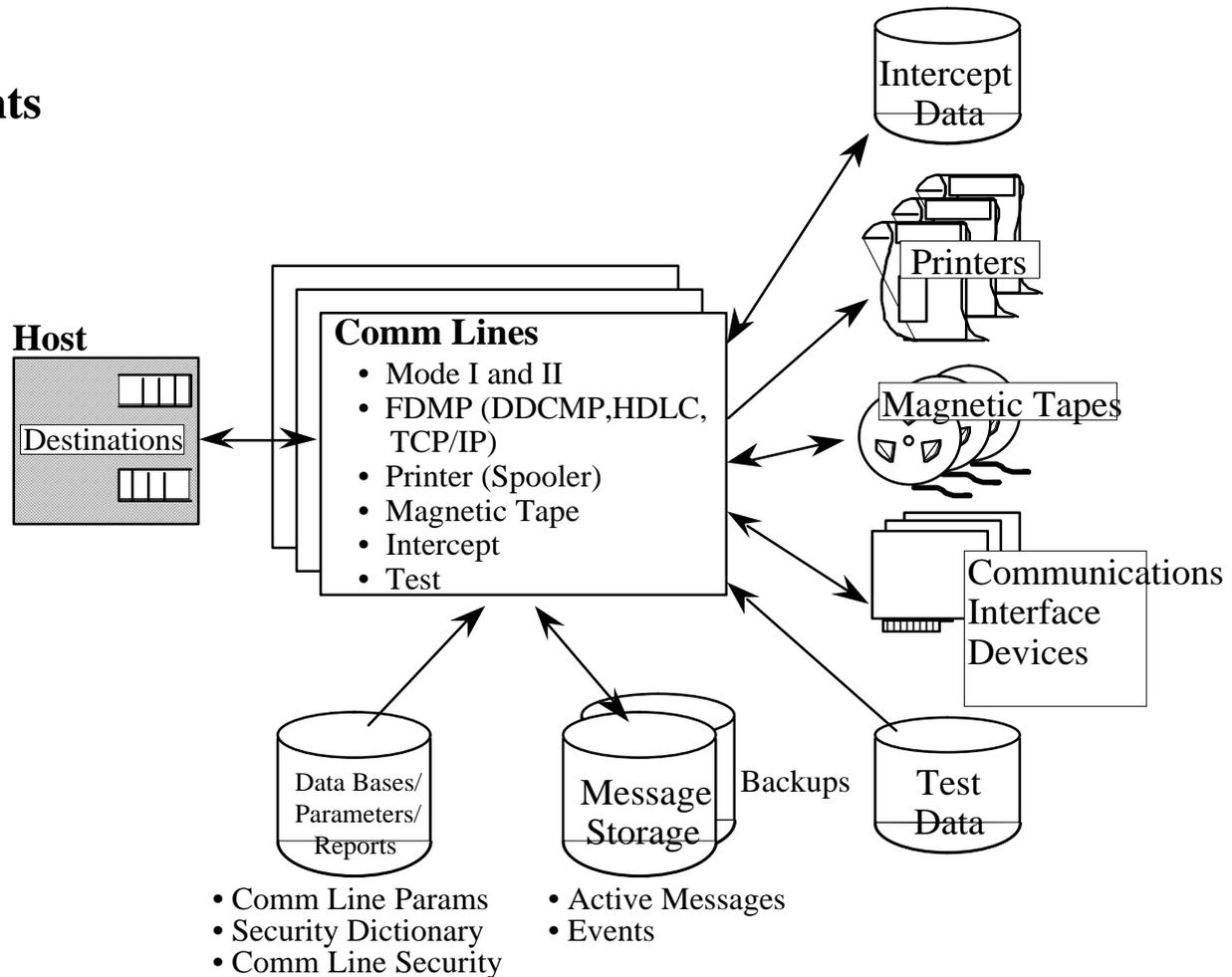
- Support functions:
 - On-line system configuration control
 - System control
 - Status reporting
 - On-Line Testing support
 - User access privileges

Subsystems



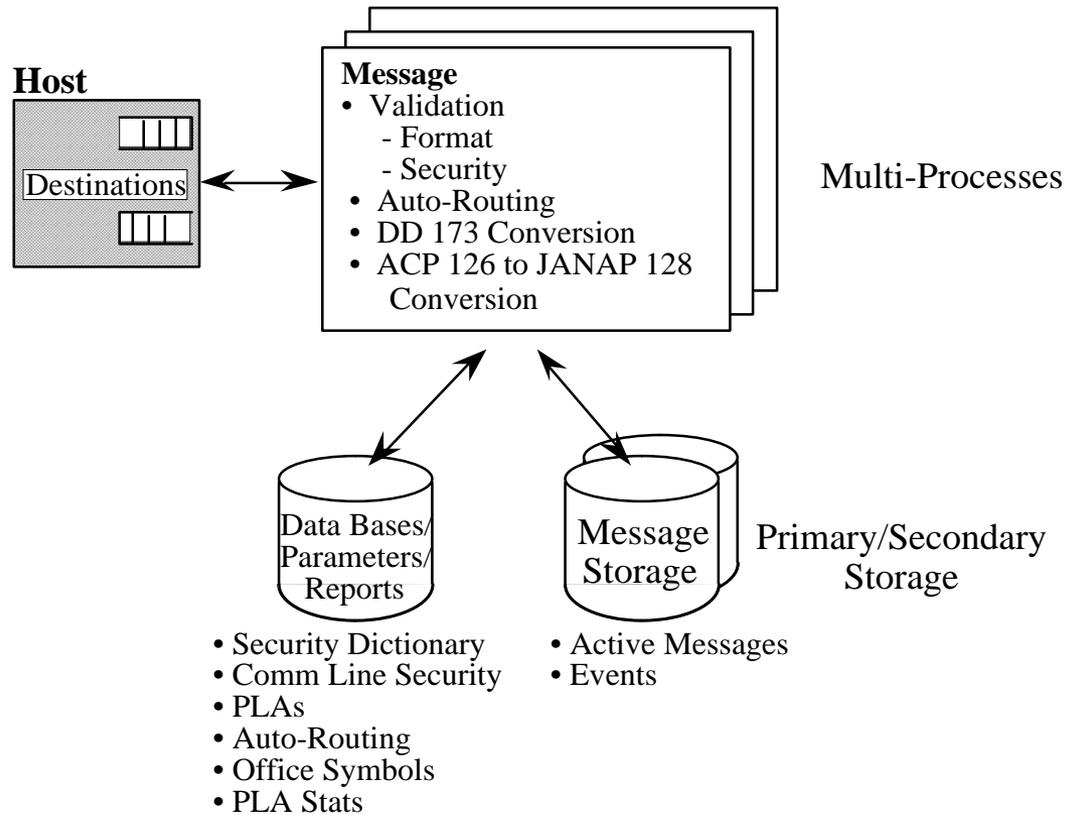
Communications Subsystem

Components



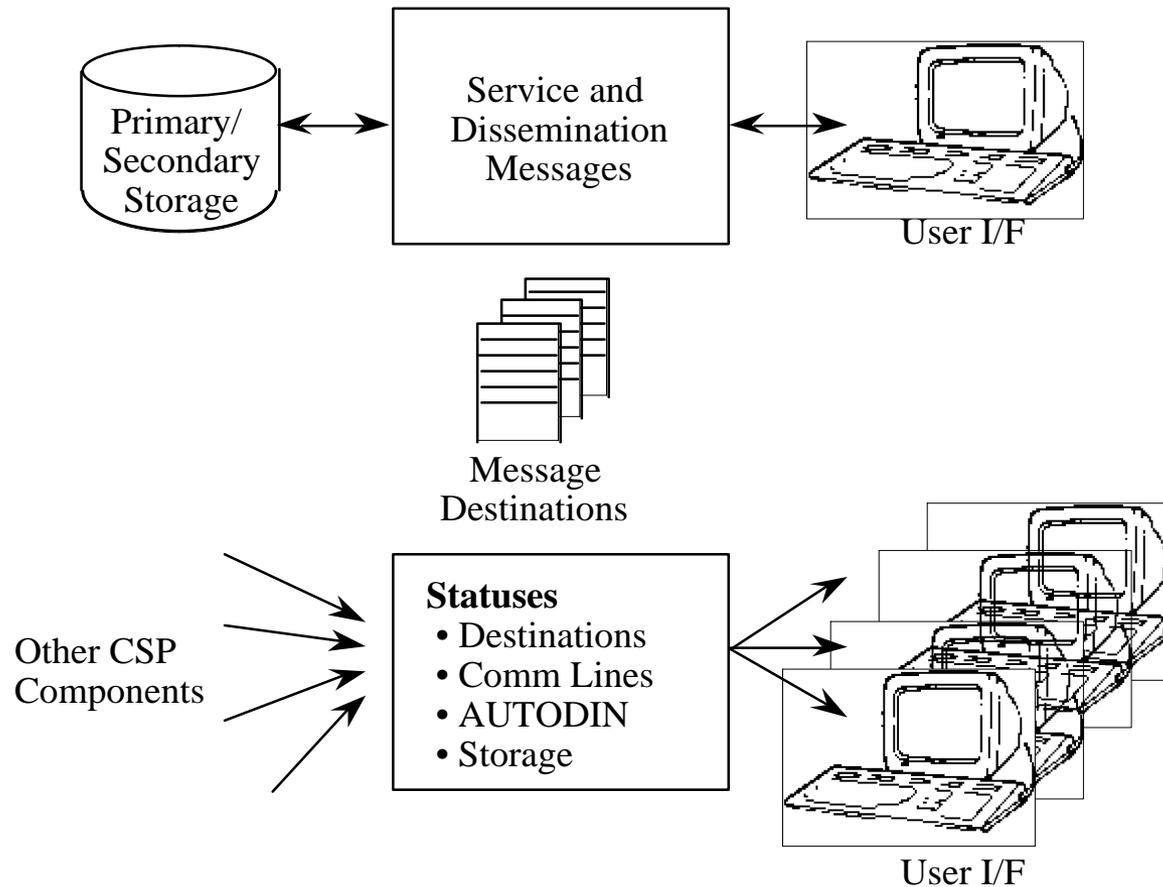
Processing Subsystem

Components



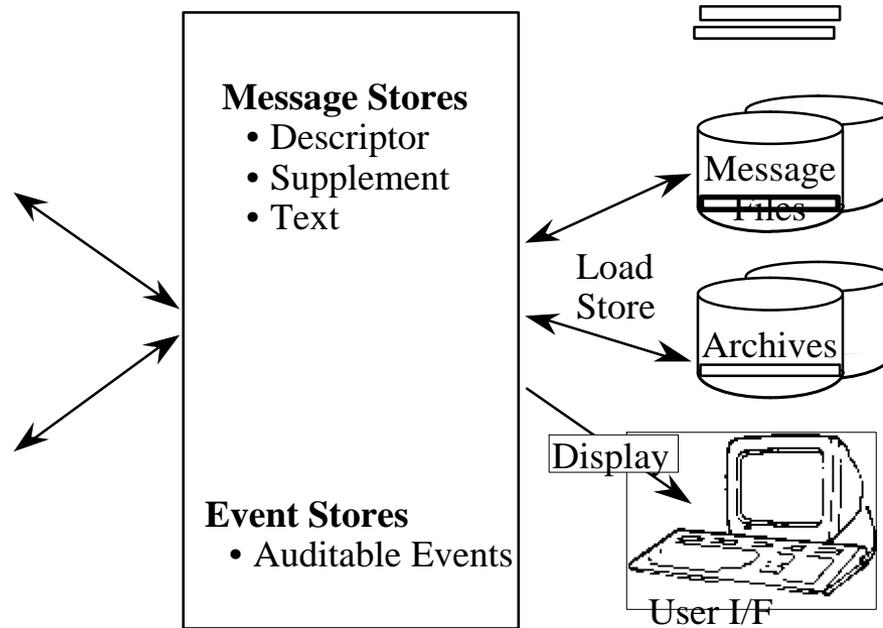
Host Subsystem

Components



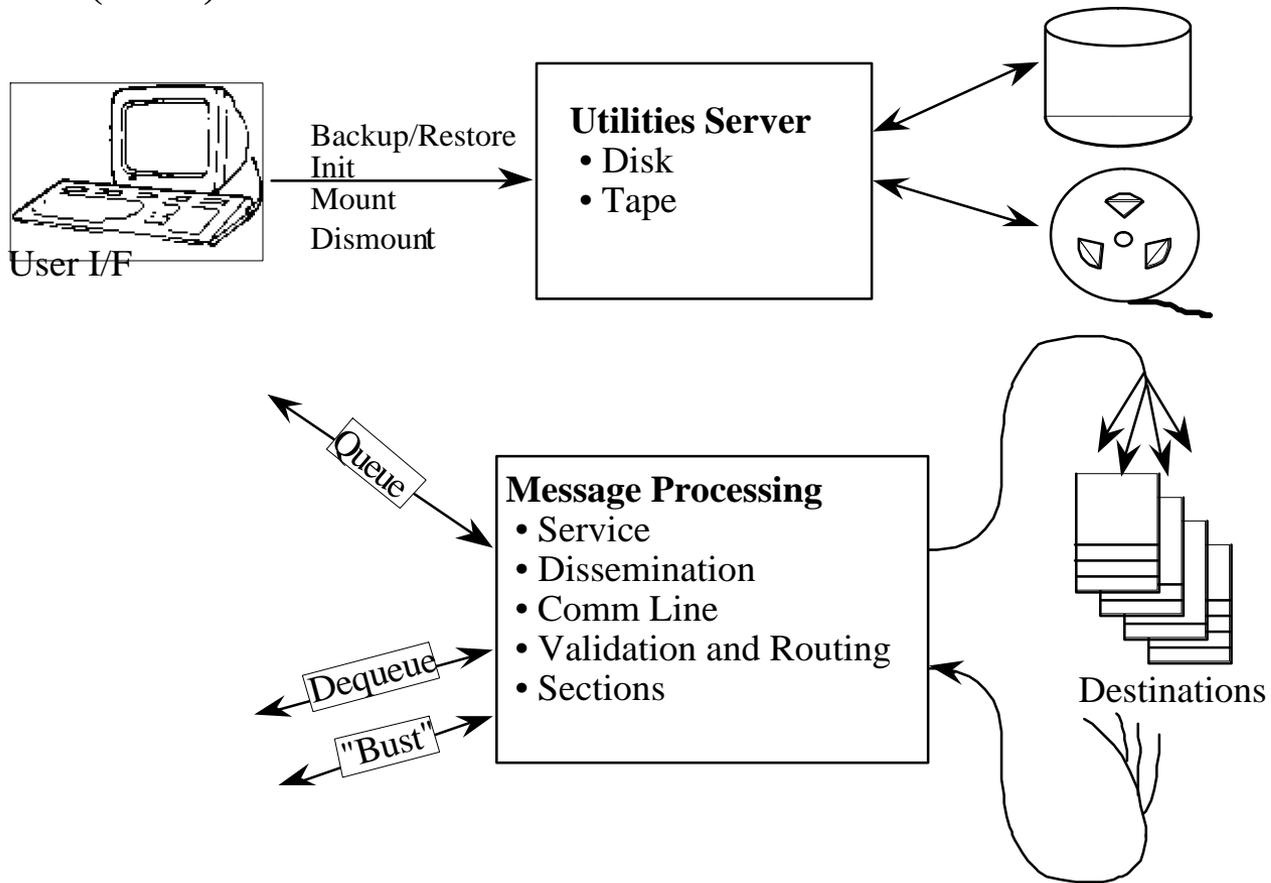
Host Subsystem

Components (cont.)



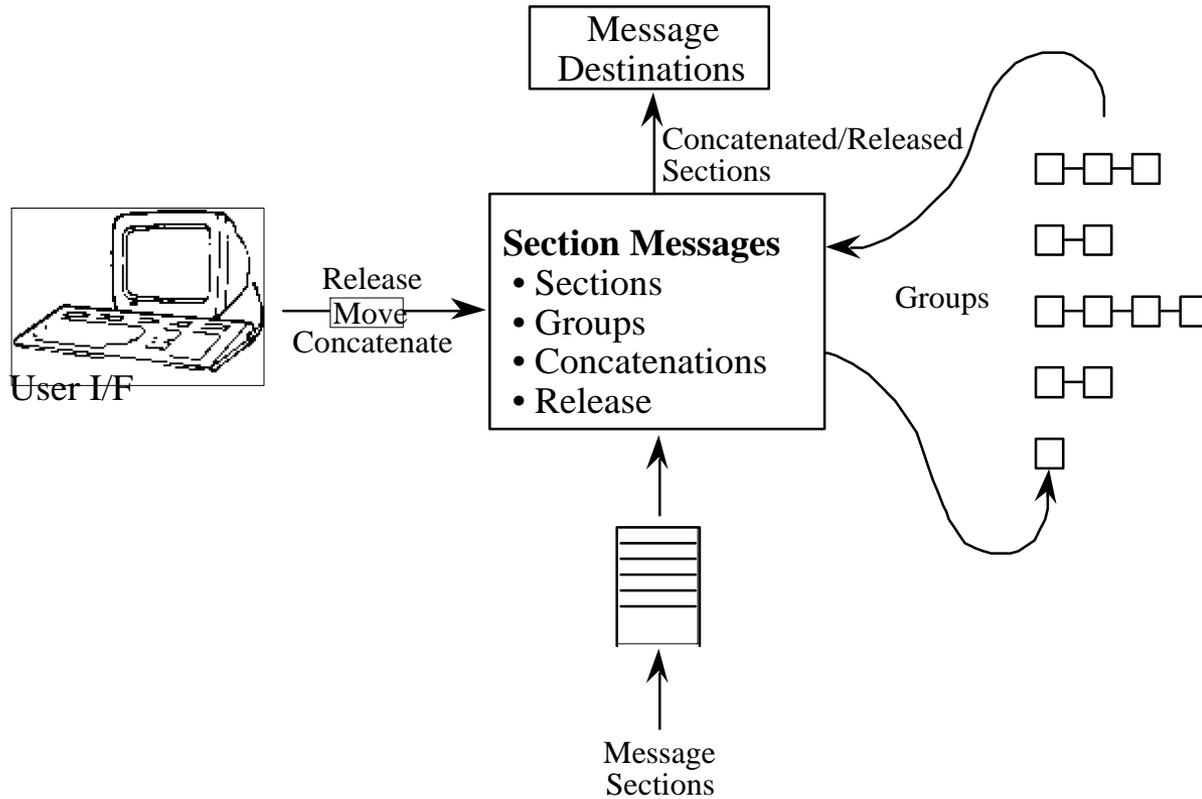
Host Subsystem

Components (cont.)



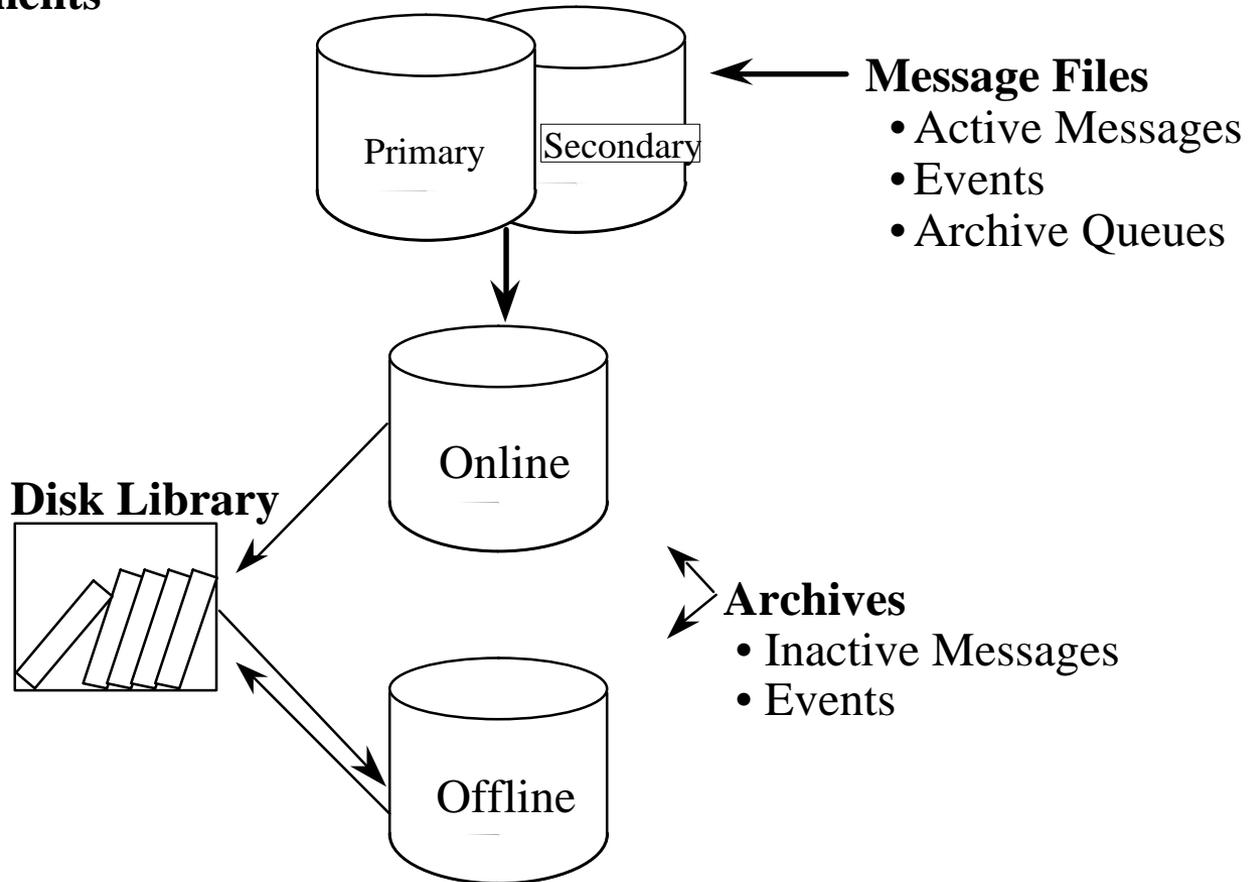
Host Subsystem

Components (cont.)



Storage Subsystem

Components

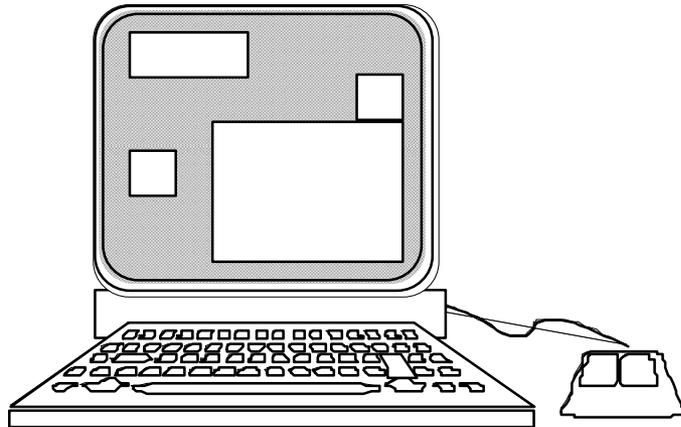


User Interface Subsystem

Components

User Terminals:

- X Window System
- OSF/Motif
- Color
- LAN I/F to host
- "Diskless"

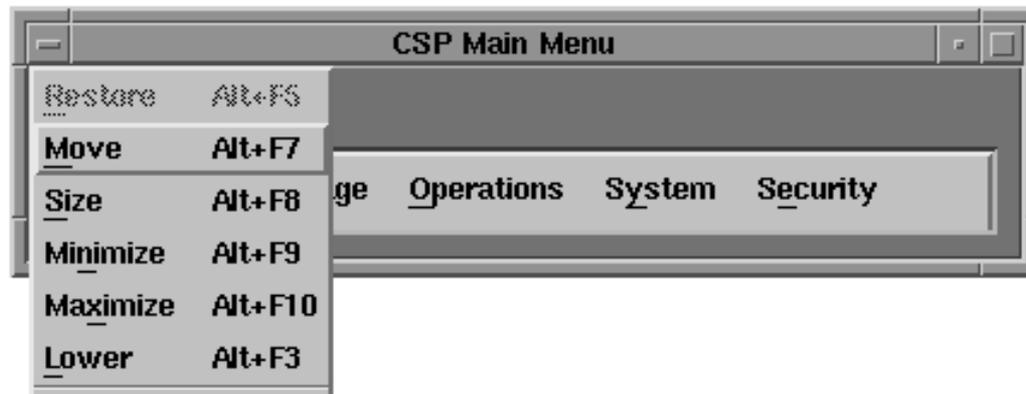


Graphical User Interface

- OSF/Motif standards
- X Window System
- Color coded window security labels
 - Unclassified Green
 - Unclassified EFTO Green
 - Restricted Aqua
 - Confidential Blue
 - Secret Red
 - Top Secret Orange
 - SCI Yellow

Graphical User Interface

- Windows, pull down menus, and icons
- 3-button mouse
- Minimum reliance on keyboard
- Keyboard "hot-keys"



UNCLAS

Automatic Routing Parameters

16

A horizontal slider control with a small rectangular handle positioned at approximately 16% of the total length.

Lines to scan into message text

5

A horizontal slider control with a small rectangular handle positioned at approximately 5% of the total length.

Lines to scan from top for SSO notes

5

A horizontal slider control with a small rectangular handle positioned at approximately 5% of the total length.

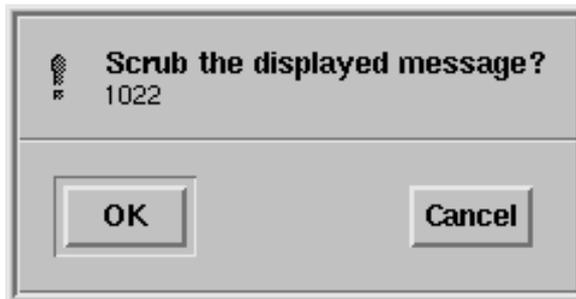
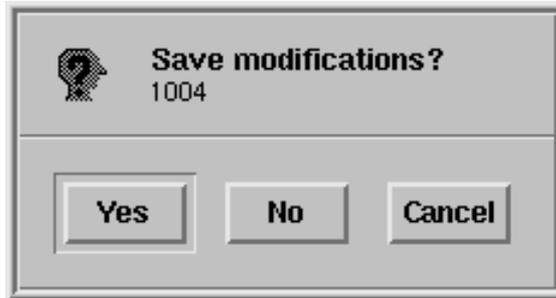
Lines to scan from bottom for SSO notes

- RI reconciliation**
- Force message to DISTRIBUTION**
- Reversible REMOVE action**

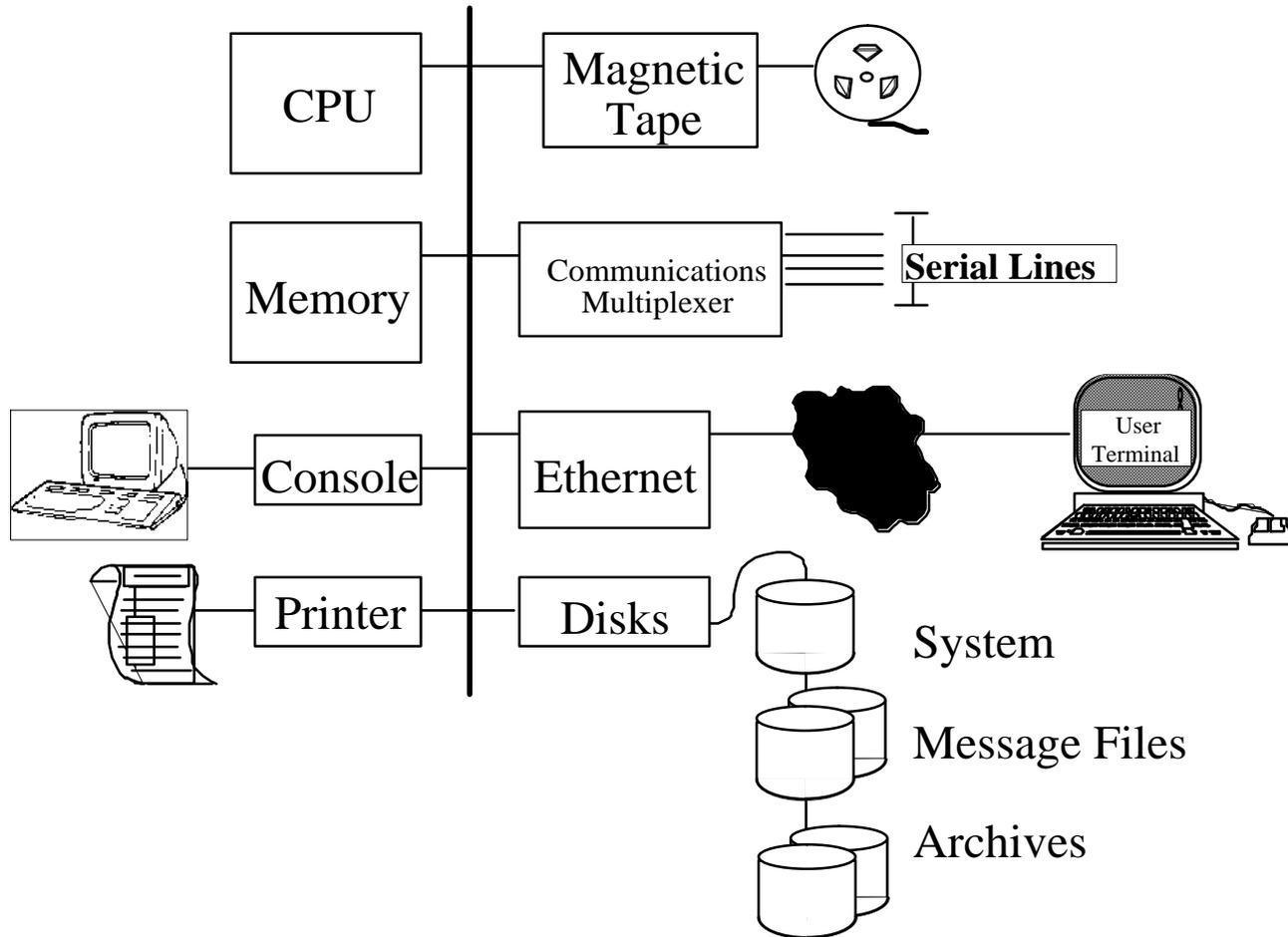
Modify

Cancel

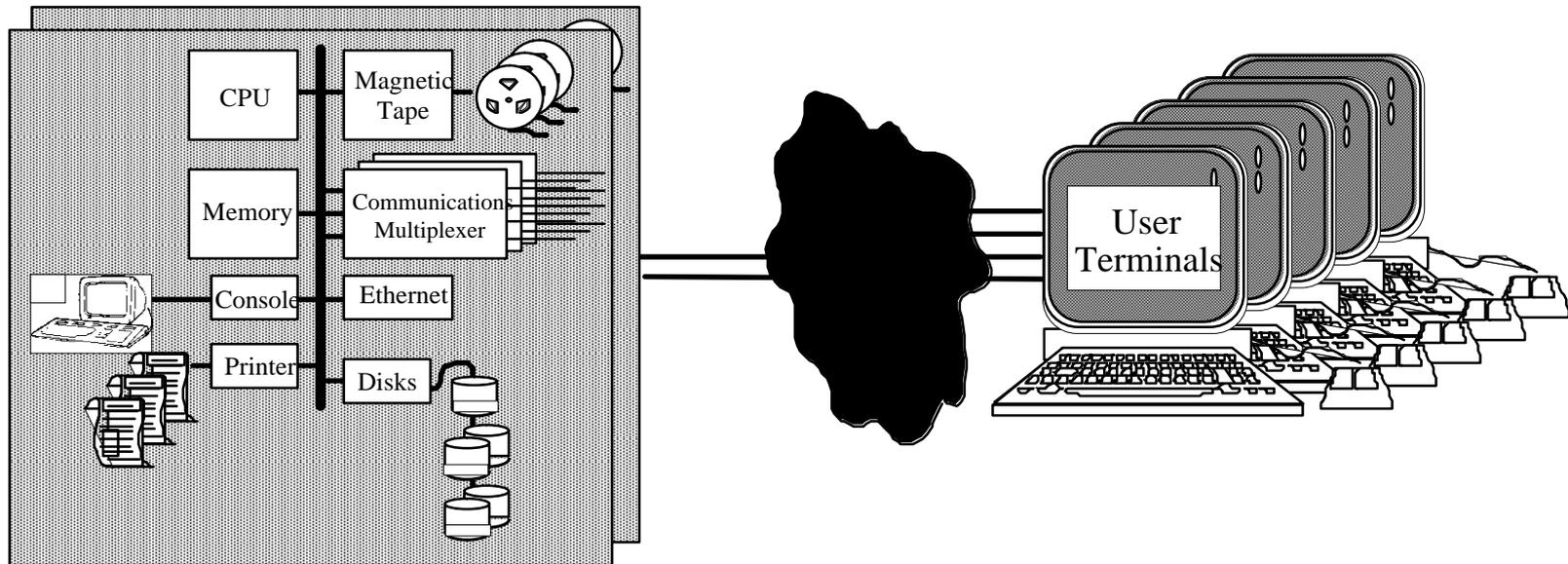
Help



Minimum Hardware Configuration



Maximum Hardware Configuration



CSP Basic Operations

- System ID and login
- Notices window
- Help
- Password
- Session exit

System ID

- Terminal powered on prior to booting the CSP system
- System ID automatically displayed

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Secure Data Communications*

"The Bridge to the World"



Version 5.6

Log In

System Login

- Push the "Log In" push button or press <Return> on the keyboard
- Enter User ID in the username field
- Enter User Password in password field
- Push the OK button to enter username and password
- Push the Clear button to reenter username and password
- Push the Help button to display help on the dialog
- Read Notice and Consent Banner
- Press Accept to accept the banner and enter the system
- Press Decline to decline the banner and return to the login screen

CSP System Login

Username

Password

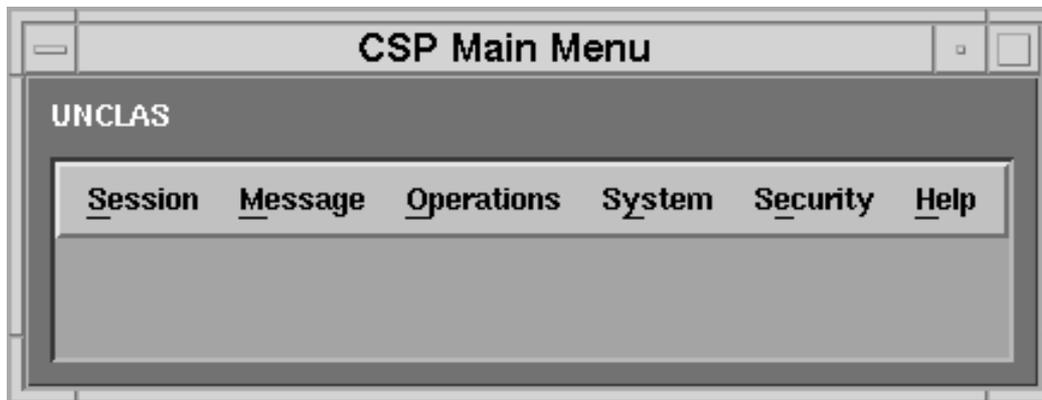
NOTICE AND CONSENT BANNER

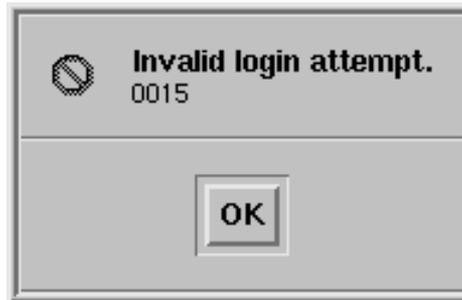
THIS IS A DEPARTMENT OF DEFENSE (DOD) COMPUTER SYSTEM. THIS COMPUTER SYSTEM, INCLUDING ALL RELATED EQUIPMENT, NETWORKS AND NETWORK DEVICES (SPECIFICALLY INCLUDING INTERNET ACCESS), ARE PROVIDED ONLY FOR AUTHORIZED U.S. GOVERNMENT USE. DOD COMPUTER SYSTEMS MAY BE MONITORED FOR ALL LAWFUL PURPOSES, INCLUDING TO ENSURE THAT THEIR USE IS AUTHORIZED, FOR MANAGEMENT OF THE SYSTEM, TO FACILITATE PROTECTION AGAINST UNAUTHORIZED ACCESS, AND TO VERIFY SECURITY PROCEDURES, SURVIVABILITY AND OPERATIONAL SECURITY. MONITORING INCLUDES ACTIVE ATTACKS BY AUTHORIZED DOD ENTITIES TO TEST OR VERIFY THE SECURITY OF THIS SYSTEM. DURING MONITORING INFORMATION MAY BE EXAMINED, RECORDED, COPIED AND USED FOR AUTHORIZED PURPOSES. ALL INFORMATION, INCLUDING PERSONAL INFORMATION, PLACED ON OR SENT OVER THIS SYSTEM MAY BE MONITORED.

USE OF THIS DOD COMPUTER SYSTEM, AUTHORIZED OR UNAUTHORIZED, CONSTITUTES CONSENT TO MONITORING OF THIS SYSTEM. UNAUTHORIZED USE MAY SUBJECT YOU TO CRIMINAL PROSECUTION. EVIDENCE OF UNAUTHORIZED USE COLLECTED DURING MONITORING MAY BE USED FOR ADMINISTRATIVE, CRIMINAL, OR OTHER ADVERSE ACTION. USE OF THIS SYSTEM CONSTITUTES CONSENT TO MONITORING FOR THESE PURPOSES.

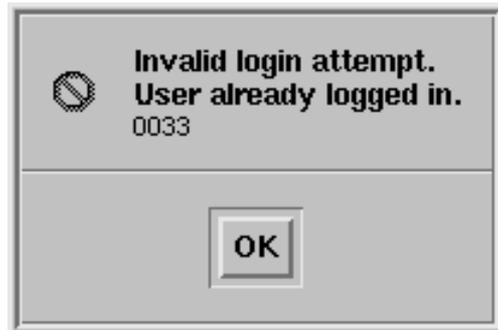
Accept

Decline









System ID and Login Characteristics

- 3 attempts prior to a successful login
- Single workstation access
- Unique username and password
- 90 day expiration on password
- Unique privileges

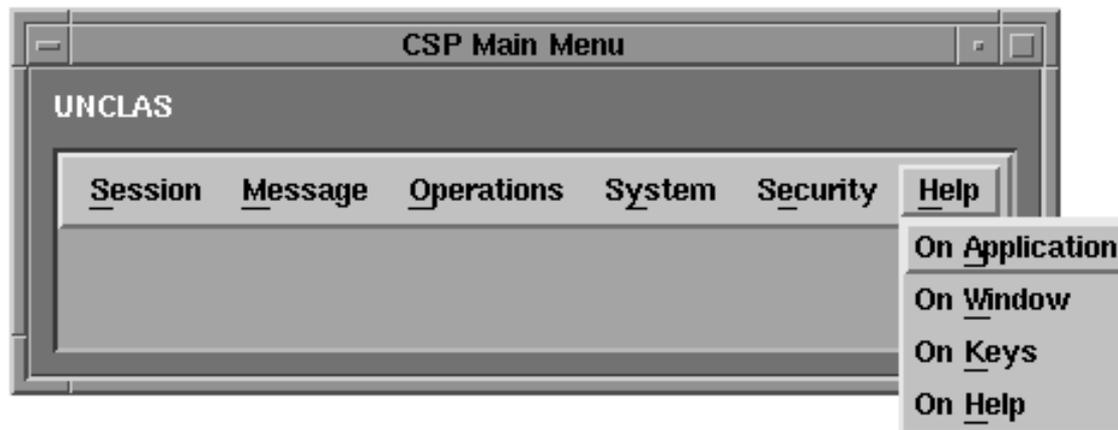
Notices Window

- Required for operational CSP
- Approximately 600 events displayed
- Displays significant audit events:
 - Info
 - Warning
 - Action
 - Alert

| Operator Notices | | | | |
|------------------|----------|----------|----------|----------------------------------------------------------------------------------------|
| UNCLAS | | | | |
| Date | Time | Severity | Category | Event |
| 12 SEP 2001 | 21:06:10 | WARNING | DATABASE | DATABASE MODIFIED CURRENT version of User Access modified by SUPERU . |
| 12 SEP 2001 | 21:04:08 | WARNING | TERMINAL | INVALID USER LOGIN DLF attempted login on CSPPRI. |
| 12 SEP 2001 | 21:04:04 | WARNING | TERMINAL | INVALID USER LOGIN DLF attempted login on CSPPRI. |
| 12 SEP 2001 | 21:03:59 | WARNING | TERMINAL | INVALID USER LOGIN DLF attempted login on CSPPRI. |
| 12 SEP 2001 | 21:03:38 | WARNING | TERMINAL | INVALID USER LOGIN FRED attempted login on CSPPRI. |
| 12 SEP 2001 | 21:03:22 | WARNING | TERMINAL | INVALID USER LOGIN FRED attempted login on CSPPRI. |
| 12 SEP 2001 | 21:00:04 | INFO | TERMINAL | REPORT PRINTED GROUP_PLAS Report printed. |
| 12 SEP 2001 | 20:24:24 | INFO | TERMINAL | REPORT INCOMPLETE INTERCEPT_STATS Report failed; see printout for more information. |

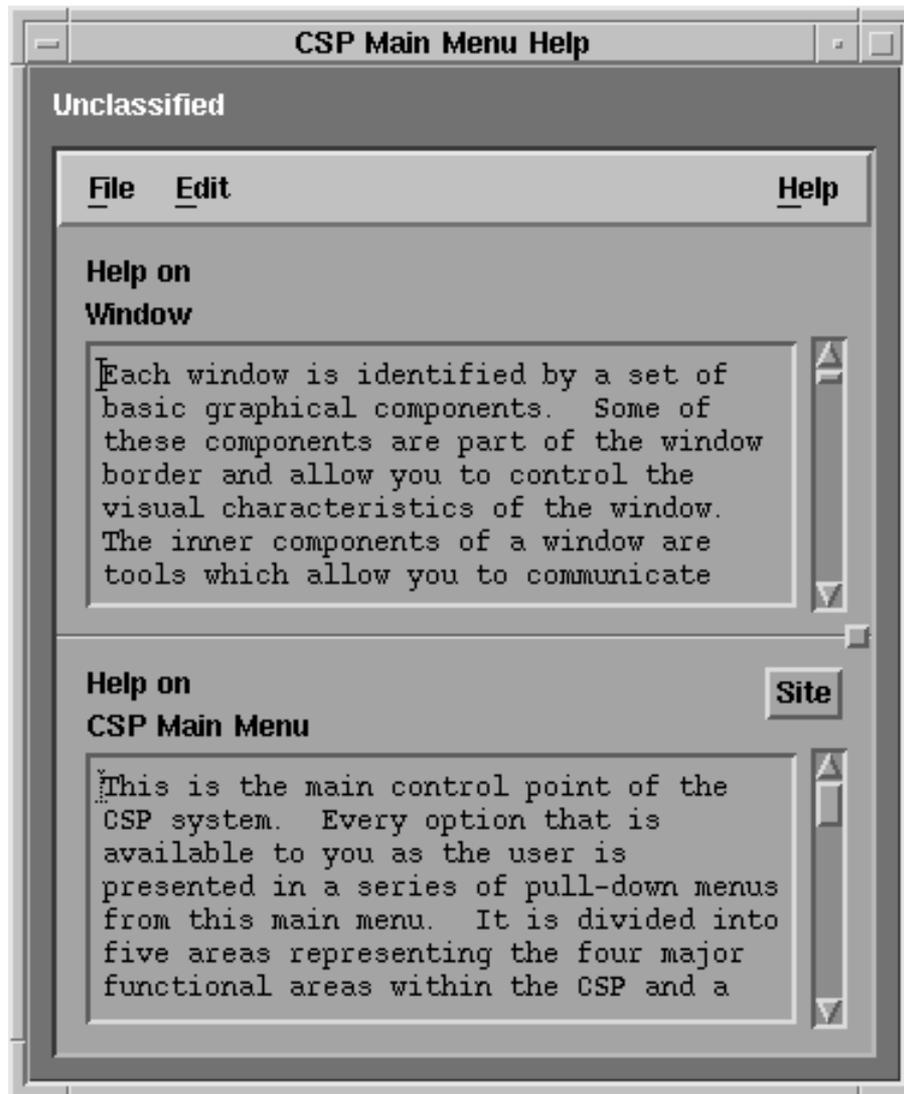
Help

- Accessed on main windows via the menu bar
- Accessed on dialogs via the Help push button
- Provides help on:
 - CSP application for the current window
 - Common components of windows
 - Use of the keyboard
 - Capabilities of help



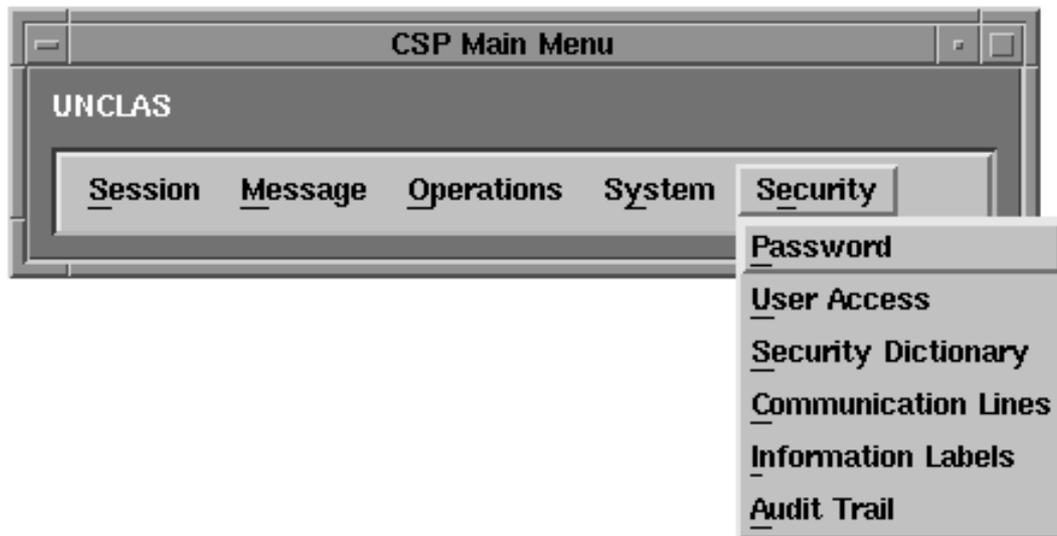
Help Window

- Displays up to 5 separate help messages
- The Help window contains:
 - File menu
 - Edit menu
 - Help menu
- Site help



Password

- User initiated
- System initiated:
 - First successful login to a new user account
 - First successful login after user password is updated by the Security Manager
 - Password expiration (90 days)



Password Modification

- Enter Old password
- Enter New password
- Verify New password
- Push the OK button to enter new password
- Push the Cancel button to cancel operation
- Push the Help button to display help on the dialog

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Set Password

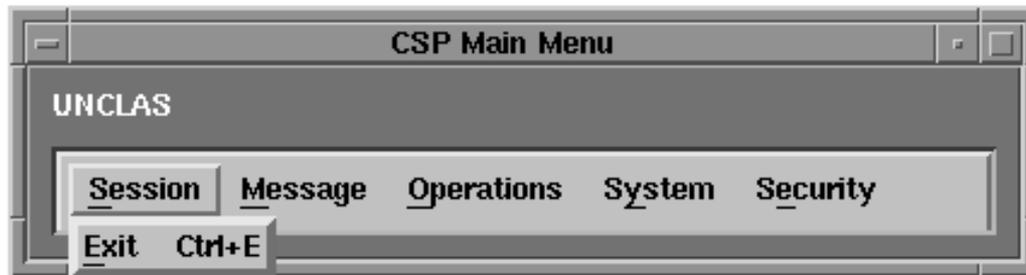
Old Password

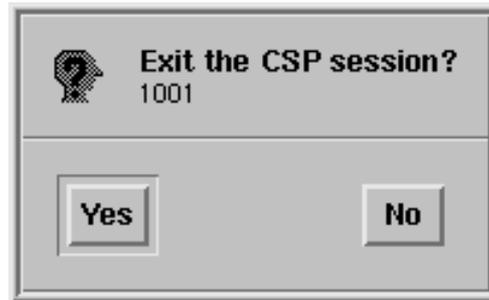
New Password

Verify Password

Session Exit

- Logs the current user off the user terminal
- All applications must be closed





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Version 5.7

Log In



Data Base Operations

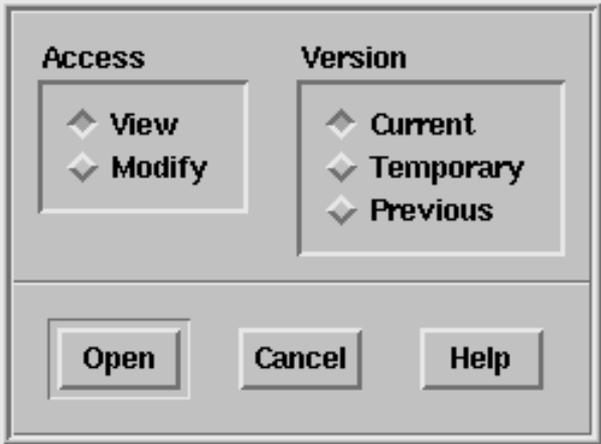
- Data base attributes
- Data base access
- Data base versions
- Data base file menu
- Data base options menu
- Resource contention

Data Base Attributes

- Relational data bases (keyed)
- Updated immediately or scheduled for update (5 data bases only)
- Subject to access and contention controls
- Printable

Data Base Access

- View
 - Requests View access
 - No modifications may be made
- Modify
 - Requests Modify access
 - Modifications may be made



Data Bases Versions - Open

A user can open 1 of 4 versions of a data base with View or Modify privileges:

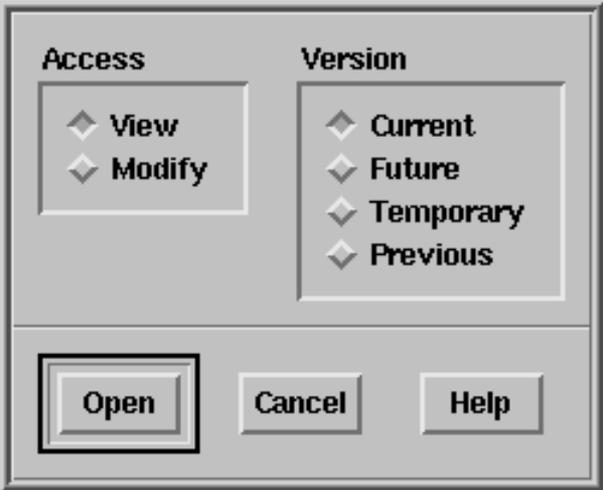
- Currently in Use →

| |
|---------|
| Current |
|---------|
- For Next Update →

| |
|--------|
| Future |
|--------|
- User Controlled →

| |
|-----------|
| Temporary |
|-----------|
- Last One Used →

| |
|----------|
| Previous |
|----------|



Data Bases Versions - Close

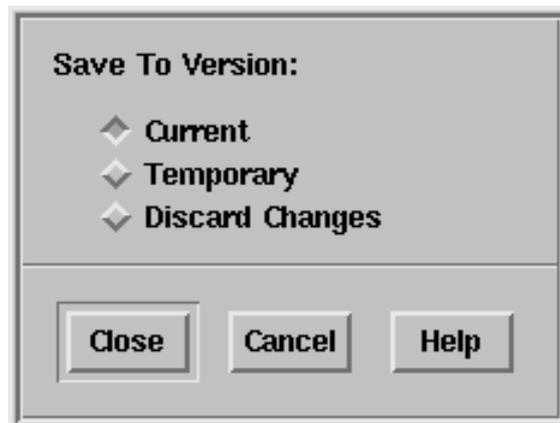
A user can close a data base to 1 of 3 versions:

- For immediate update →

| |
|---------|
| Current |
|---------|
 - For next update →

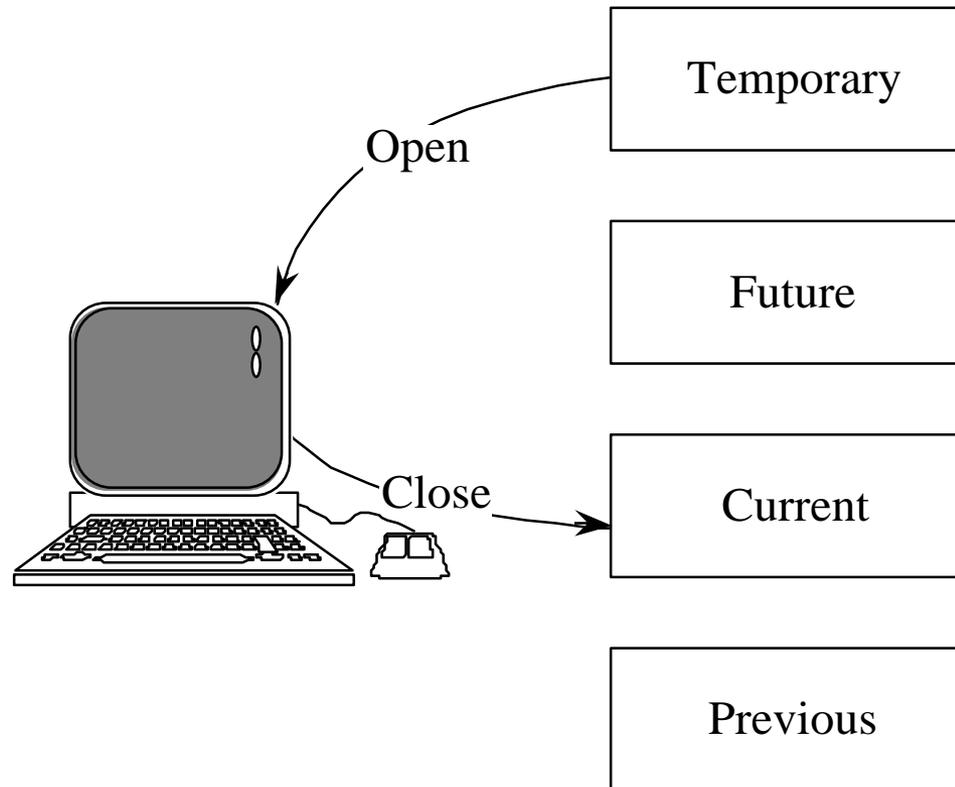
| |
|--------|
| Future |
|--------|
 - User controlled →

| |
|-----------|
| Temporary |
|-----------|
- | |
|--------------------|
| Discard Changes |
|--------------------|



Data Bases Versions - Usage

User "opens" from a version for modify and closes to a version



Data Bases Versions - Example

How CSP handles saving a data base to Current:

- 1) Saves the currently viewed data base to the Future version
- 2) Suspends message processing
- 3) Copies the Current version of the data base to the Previous version
- 4) Copies the Future version to the Current version
- 5) Restarts message processing

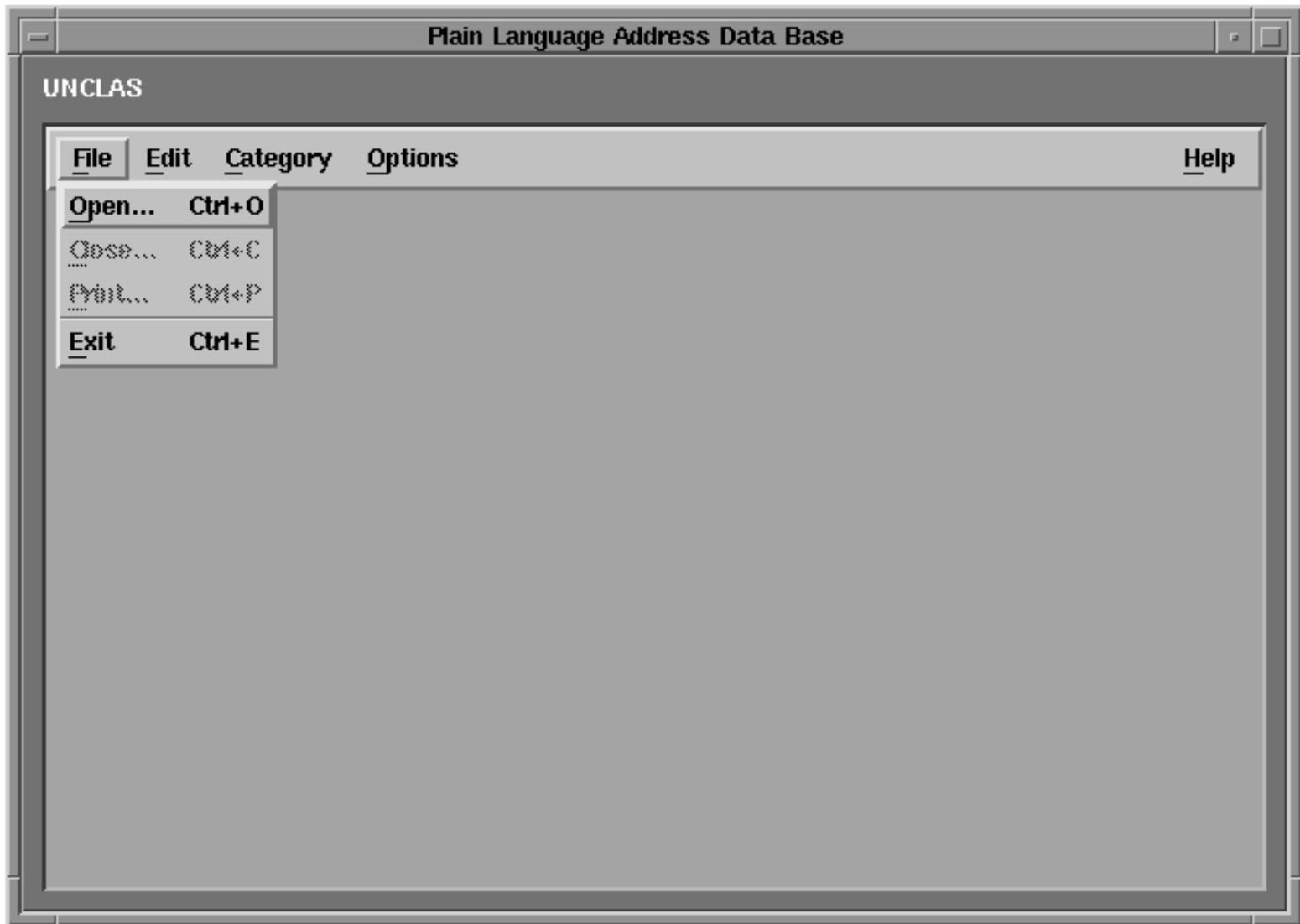
Data Bases Versions - Example

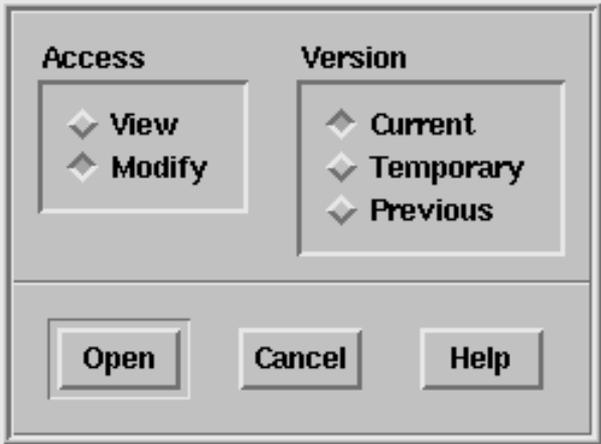
How CSP handles saving a data base to Future:

- 1) Saves the currently viewed data base to the Future version and starts a timer
- 2) Waits for the timer to expire
- 3) Suspends message processing
- 4) Copies the Current version of the data base to the Previous version
- 5) Copies the Future version to the Current version
- 6) Restarts message processing

Open

- Displays the Open dialog
- Access privileges
- Version
 - Current
 - Future (5 data bases only)
 - Temporary
 - Previous







**Unable to open Plain Language Address Data Base for modify access.
Currently opened elsewhere for view access.**

0106

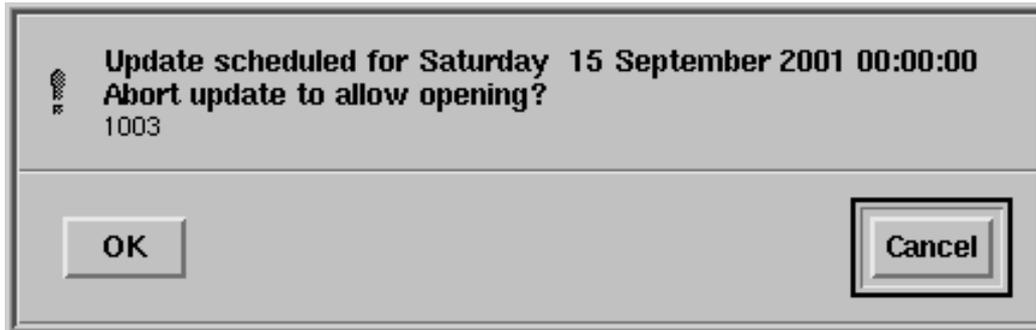


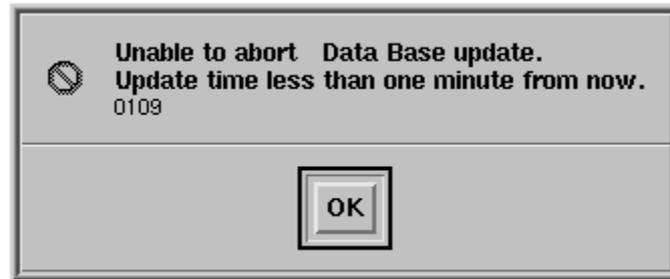


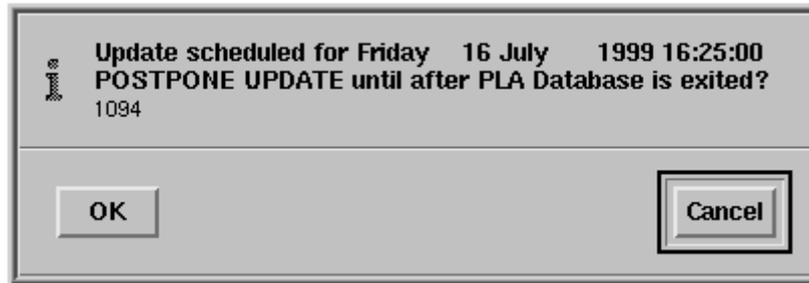
**Unable to open Plain Language Address Data Base for modify access.
Currently opened elsewhere for view access.**

0106



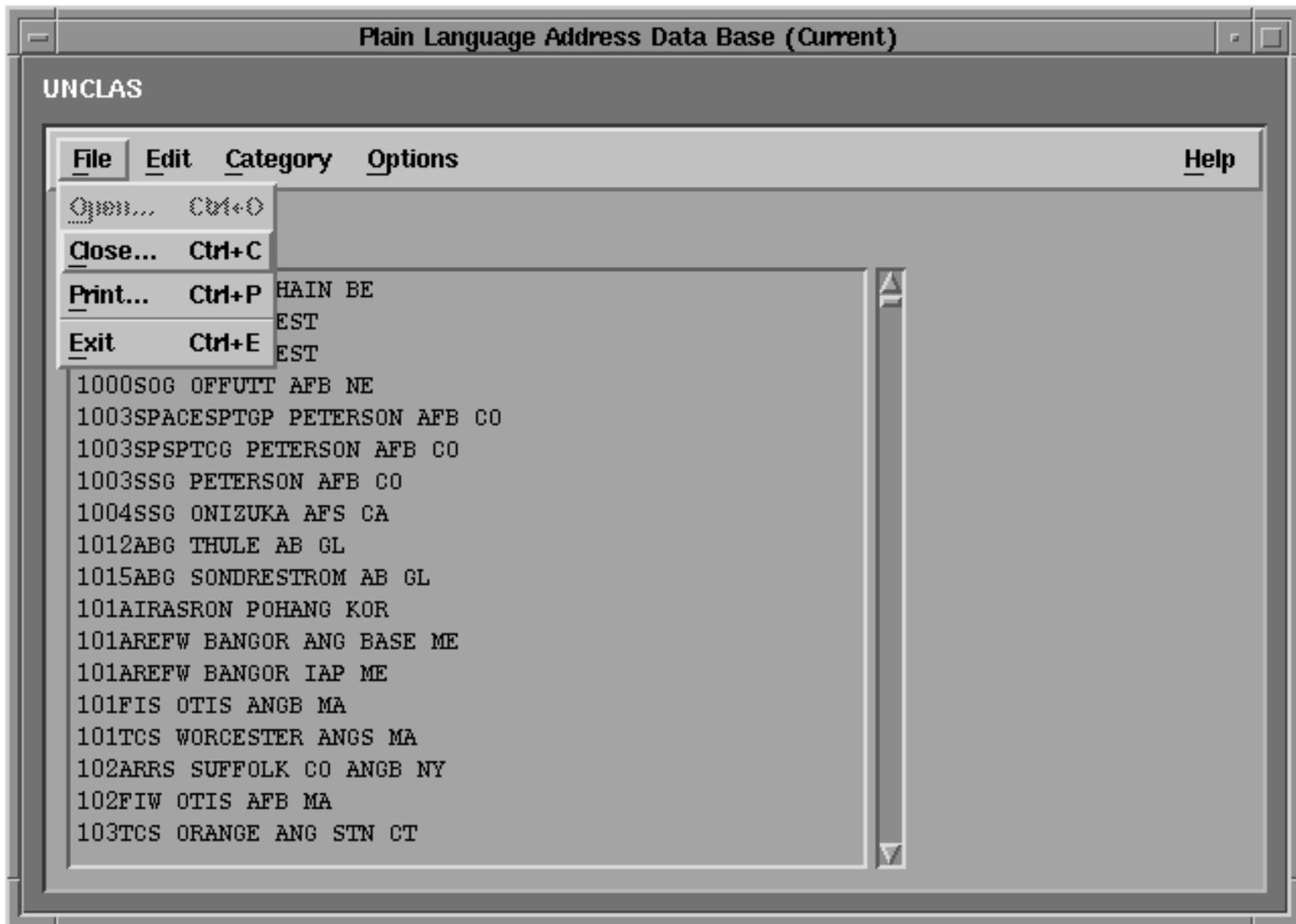






Close

- Displays Close dialog
- Version
 - Current
 - Future (5 data bases only)
 - »Enter the system time when update is to occur
 - Temporary
- Discard changes



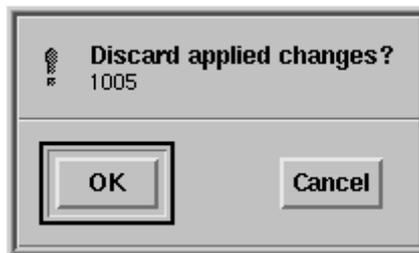


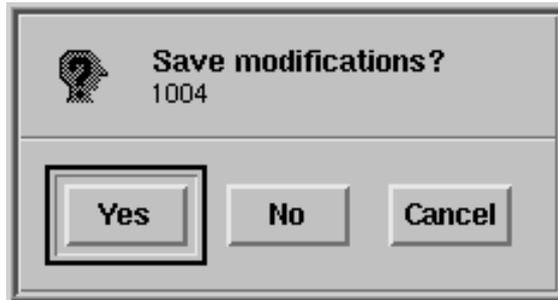
Save To Version:

- Current
- Future
- Temporary
- Discard Changes

Time

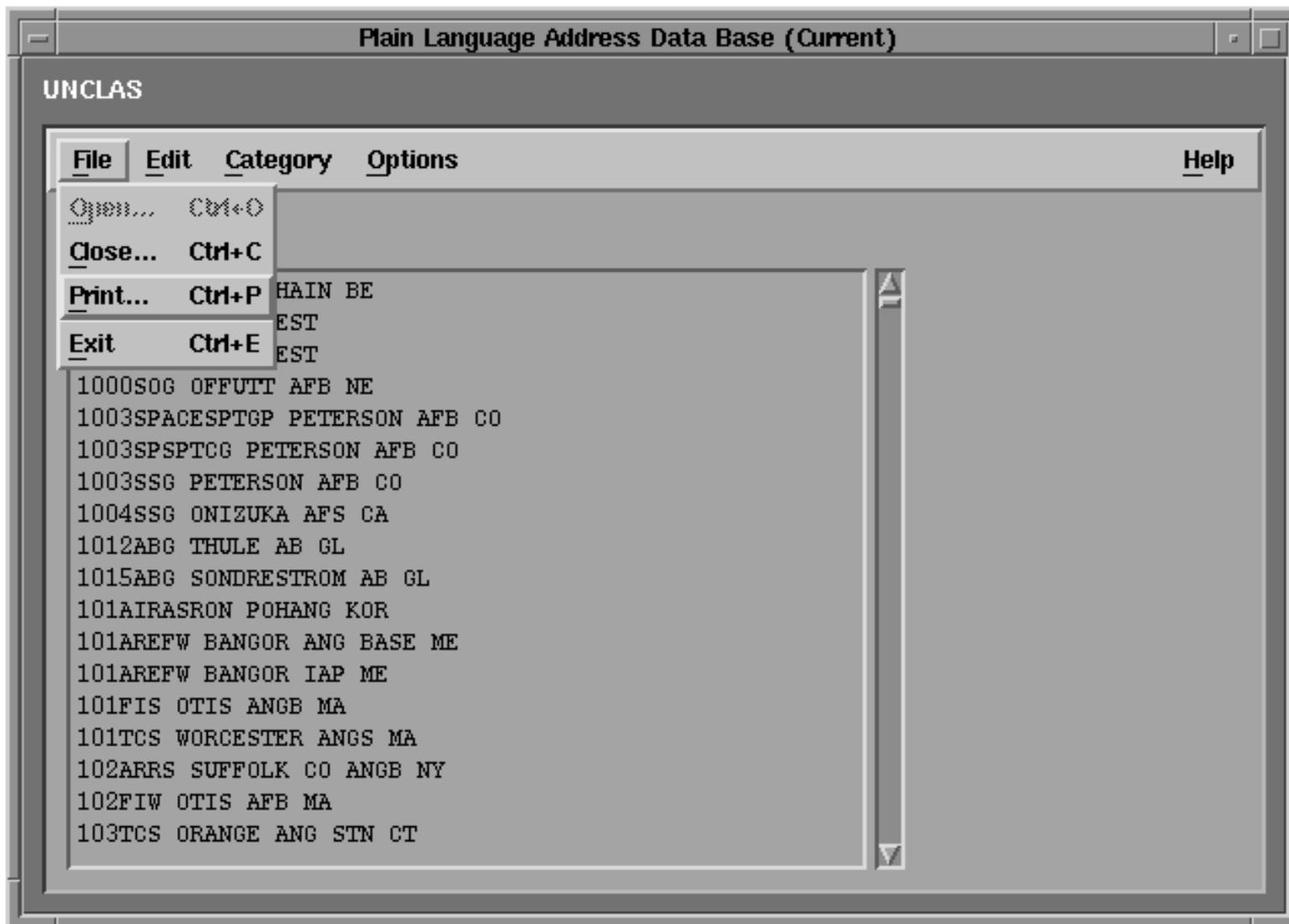
Date





Print

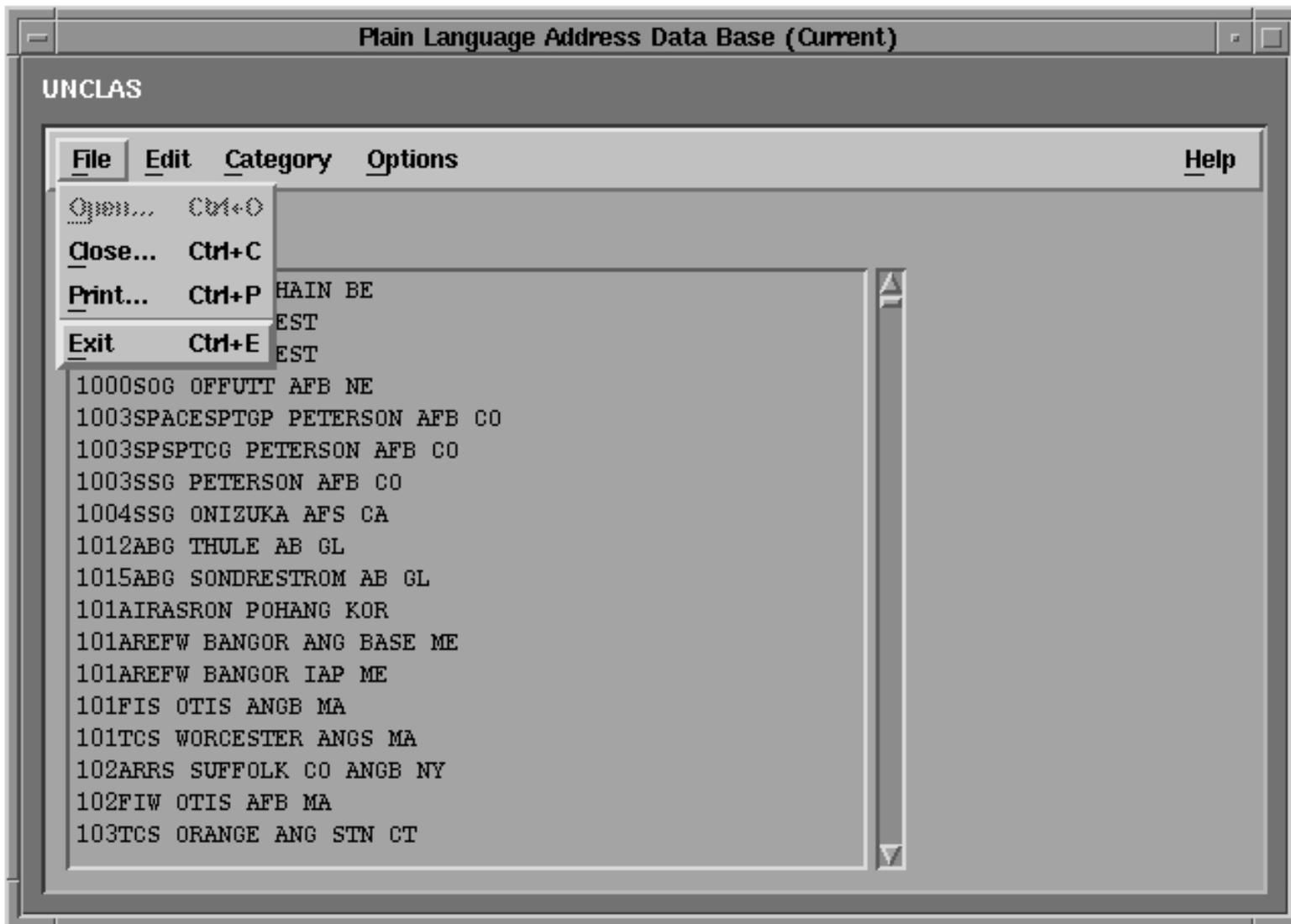
- Displays Print dialog
- Output device
- Number of copies

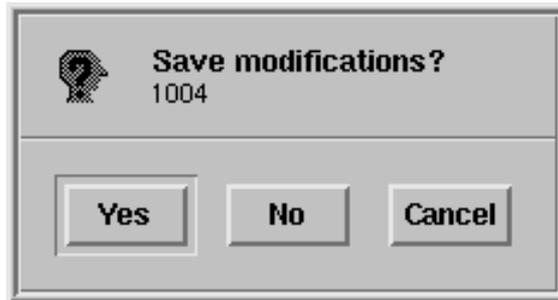




Exit

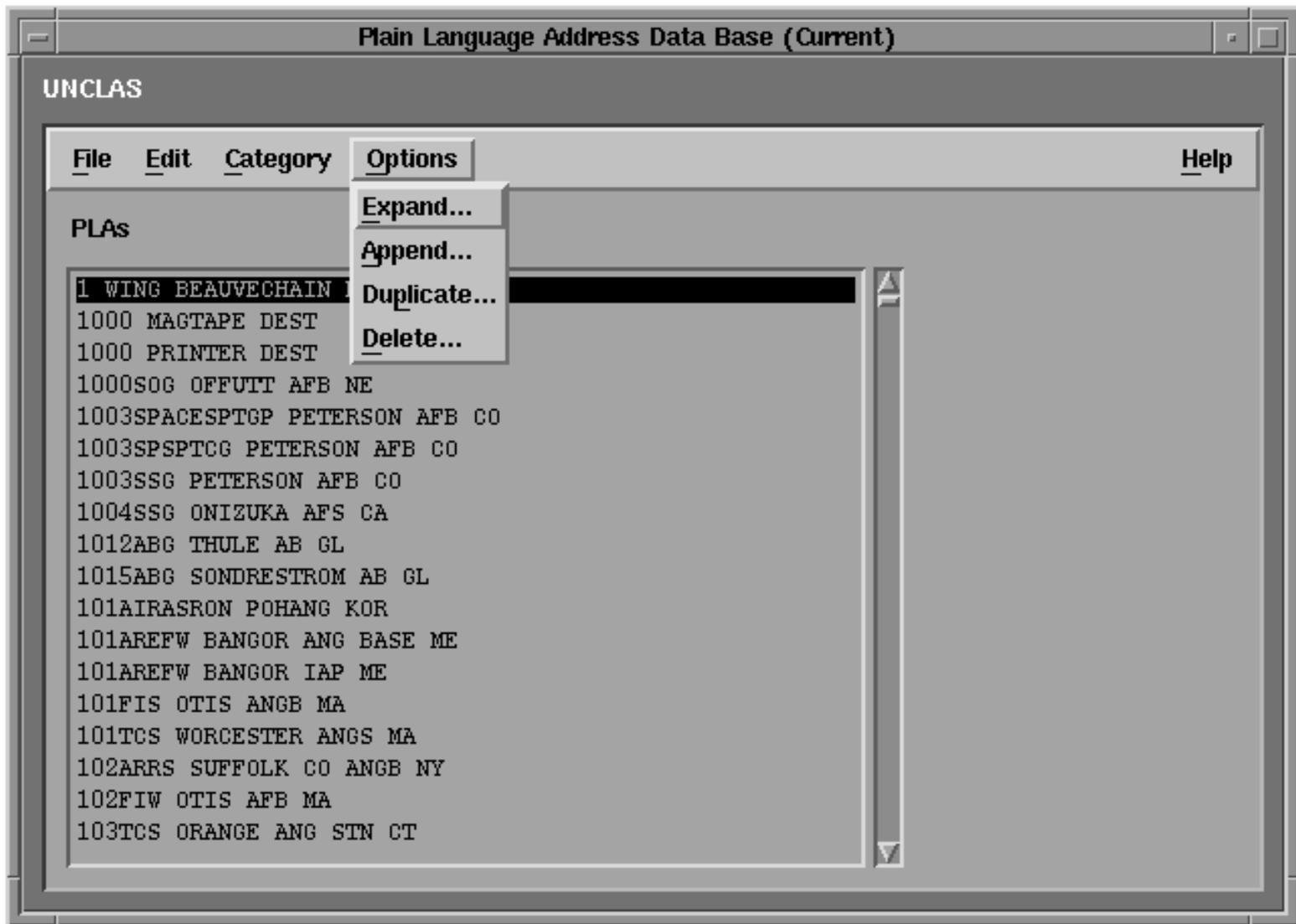
- If no changes were made, the window is closed without further action.
- If the changes made are not yet saved, the operator is asked if the changes are to be saved.





Expand

- Expands the currently selected item



Expand Dialog

- Expand options:
 - Modify (modify only)
 - Cancel (modify only)
 - Close (view only)
 - Help

UNCLAS

PLA

1 WING BEAUVECHAIN BE

GENSER

AUTO ZEN

Routing
Indicators

On-Line

RQFTAG

◇ From

◇ Unclas

I

DSSCS

AUTO ZEN

Routing
Indicators

To

.....

From

.....

Section Size
(in characters)

◇ 5,400

◇ 40,000

TCC

Assigned

Available

A
B
C
D
E

1
2
3
4
5

Modify

Cancel

Help

UNCLAS

PLA

1 WING BEAUVECHAIN BE

GENSER

AUTO ZEN

Routing Indicators

On-Line

RQFTAG

◇ From

◇ Unclass

I

DSSCS

AUTO ZEN

Routing Indicators

To

...

From

...

Section Size (in characters)

◇ 5,400

◇ 10,000

TCC

Assigned

Available

A

B

C

D

E

1

2

3

4

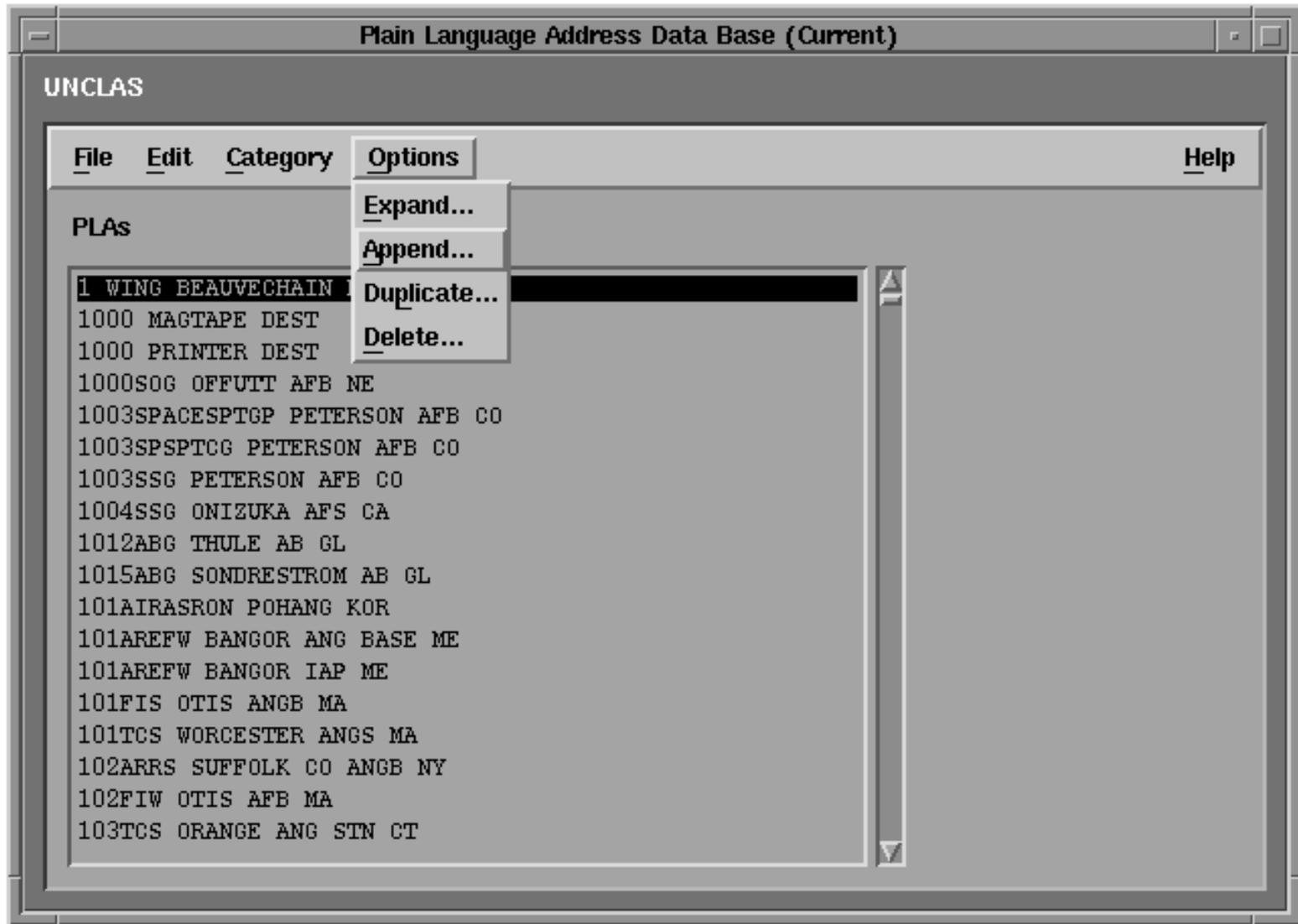
5

Close

Help

Append

- Appends new records
- Displays a blank record shell (default values are displayed)
- Multiple records may be appended to the data base



Append Dialog

- Append options:
 - Append
 - Close
 - Help

UNCLAS

PLA

GENSER

AUTO ZEN

Routing Indicators

| | |
|----------------------|----------------------|
| On-Line | ◇ From |
| <input type="text"/> | ◇ Unclas |
| <input type="text"/> | <input type="text"/> |

DSSCS

AUTO ZEN

Routing Indicators

To

From

TCC

| | Assigned | | Available |
|---|----------------------|---|-----------|
| A | <input type="text"/> | ▶ | 1 |
| B | <input type="text"/> | ▶ | 2 |
| C | <input type="text"/> | ▶ | 3 |
| D | <input type="text"/> | ▶ | 4 |
| E | <input type="text"/> | ▶ | 5 |

Section Size (in characters)

- ◇ 5,400
- ◇ 40,000

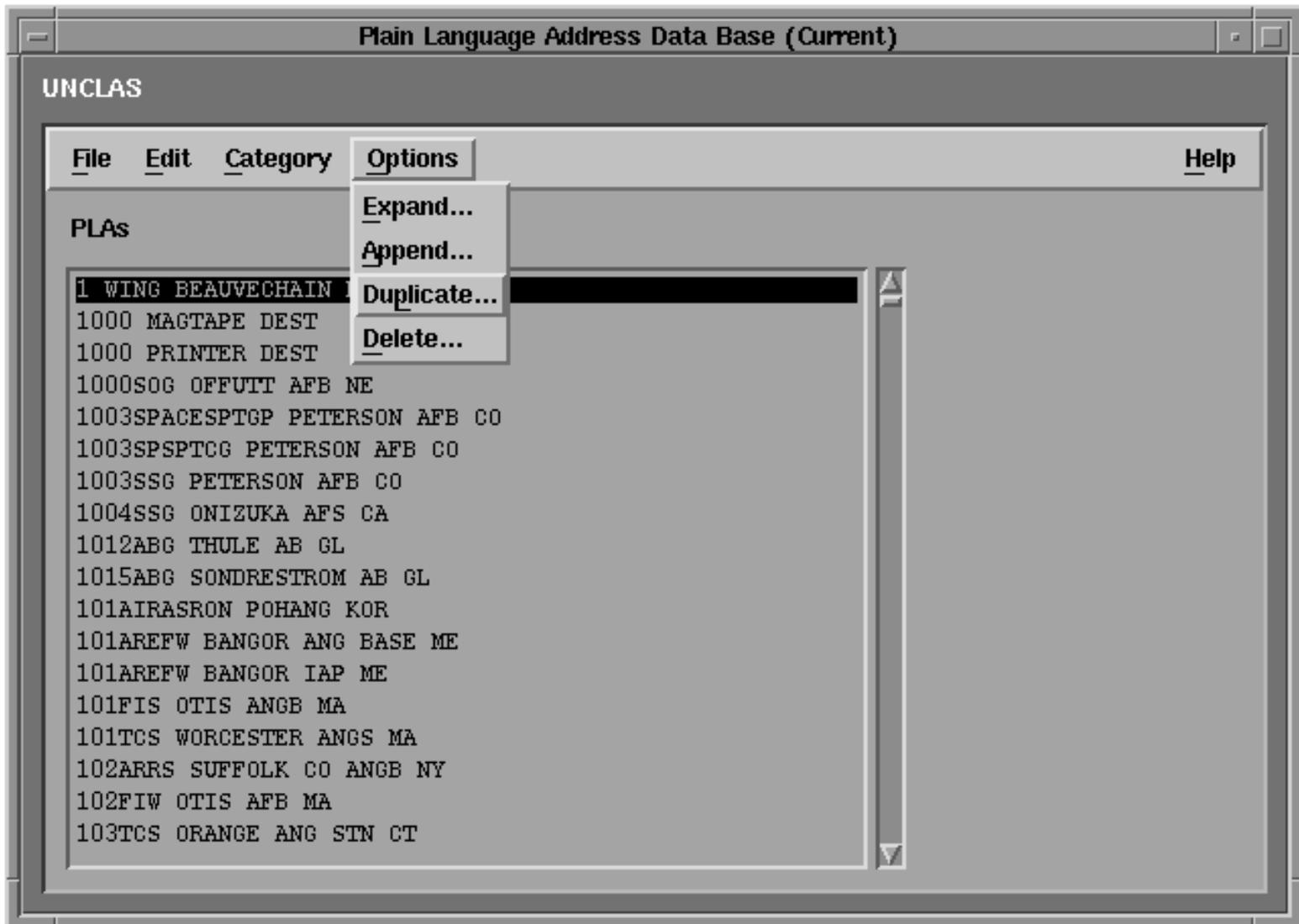
Append

Close

Help

Duplicate

- Duplicates selected record
- Displays the record structure of the selected record
- Same record may be duplicated multiple times



Duplicate Dialog

- Duplicates options:
 - Duplicate
 - Close
 - Help

UNCLAS

PLA

1 WING BEAUVECHAIN BE

GENSER

AUTO ZEN

Routing Indicators

On-Line

RQFTAG

◇ From

◇ Unclas

I

DSSCS

AUTO ZEN

Routing Indicators

To

.....

From

.....

Section Size (in characters)

◇ 5,400

◇ 40,000

TCC

Assigned

Available

A
B
C
D
E

1
2
3
4
5

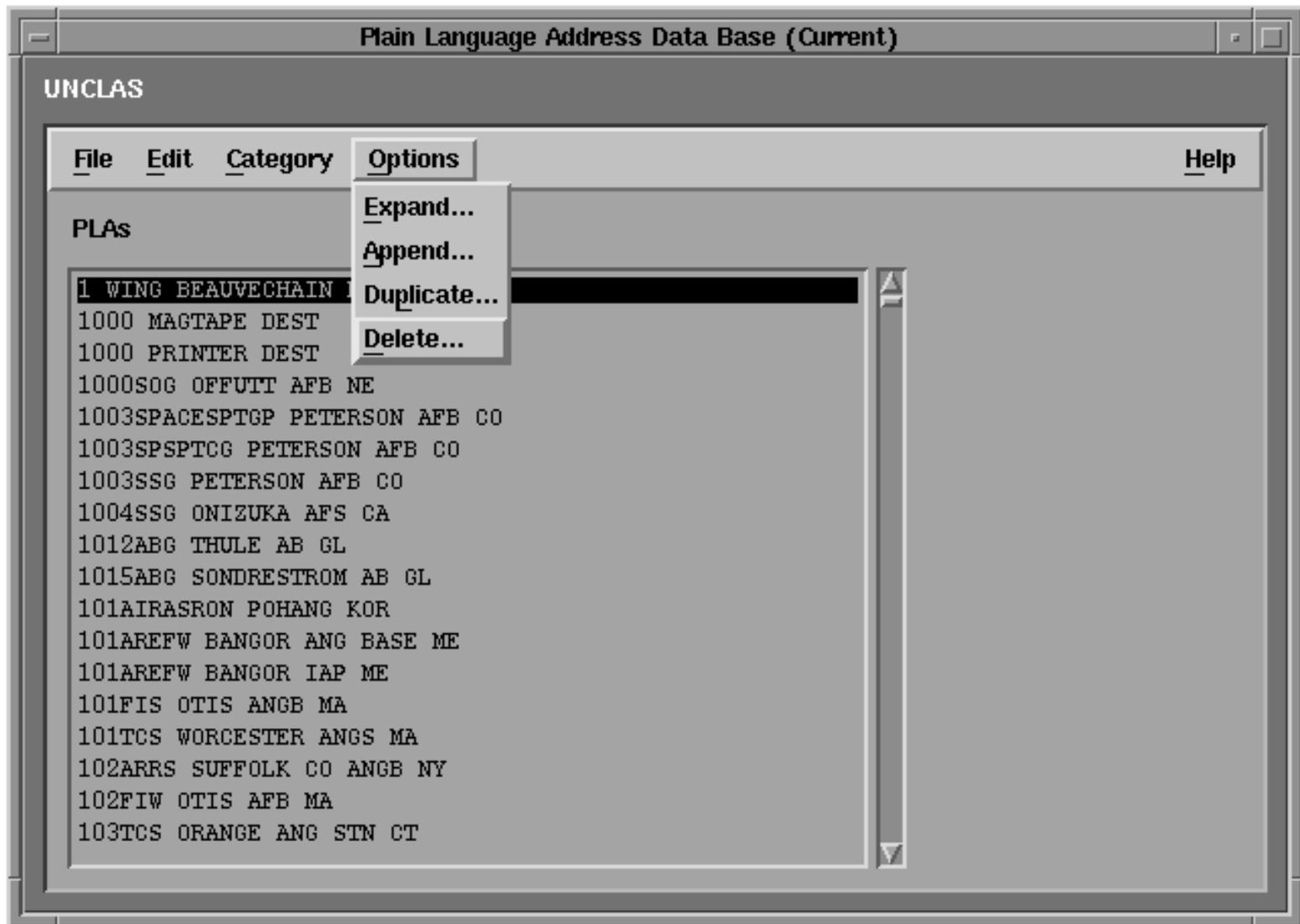
Duplicate

Close

Help

Delete

- Deletes one or more records



Delete Dialog

- Delete options:
 - Delete all
 - Delete
 - Keep
 - Close

Item to Delete

[1] WING BEAUVECHAIN BE

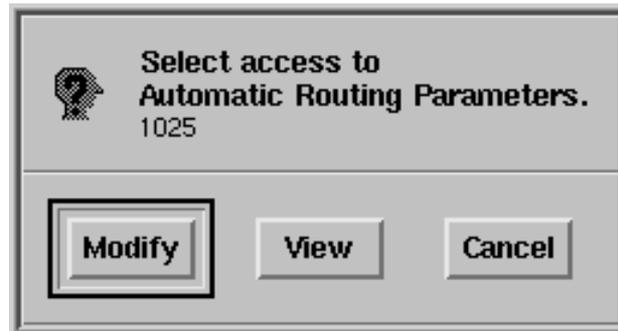
Delete All **Delete** **Keep** **Close**

Parameter Attributes

- Updated immediately
- No version handling
 - (exception: Report Scheduling)
- Application opens on a dialog
 - (exception: Communication Lines and Report Scheduling)

Parameter Access

- View
 - Request for View access
 - No modifications may be made
- Modify
 - Request for Modify access
 - Modifications may be made

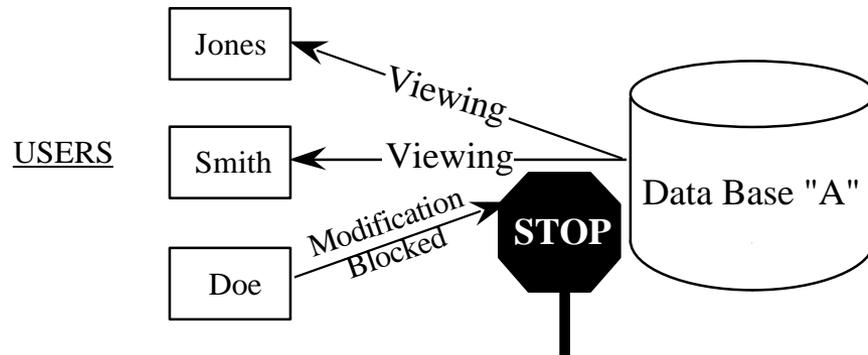


Resource Contention

- Provides required stability for on-line data base modifications
- Cannot update a data base that is currently being used
 - Directly
 - Indirectly

Resource Contention

EXAMPLE:

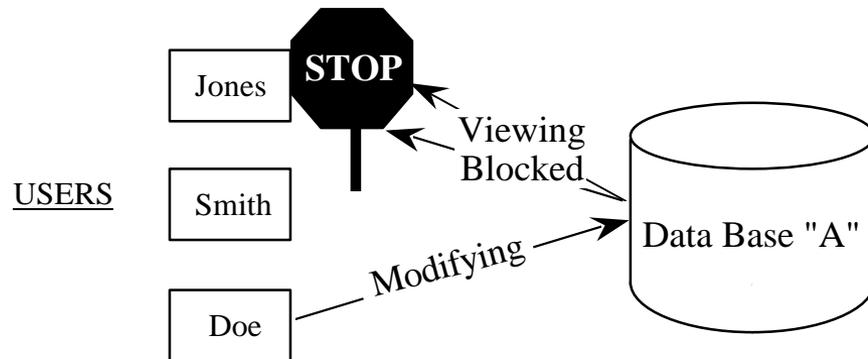


ACCESS RULE:

1 Writer

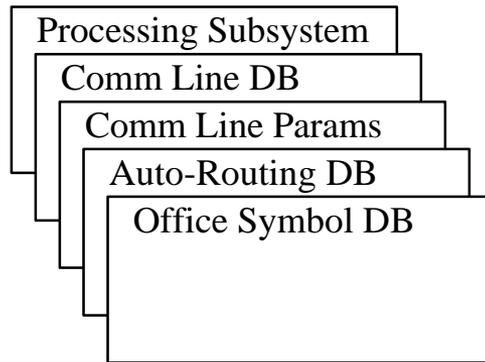
- OR -

N Readers



Resource Contention

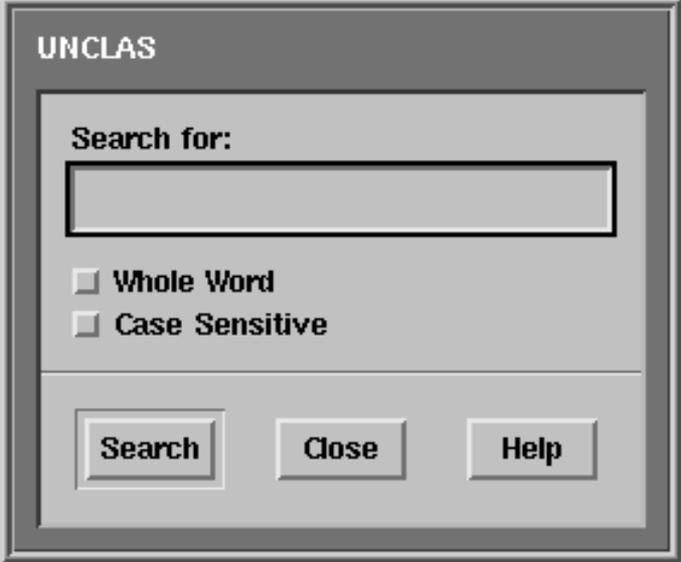
Destinations DB has many "readers"...



Destinations Data Base

| | |
|---|----------|
| 1 | AUTODIN |
| 2 | MAXI |
| 3 | 2 Reg |
| 4 | 3 Reg |
| 5 | 44 ARTG |
| 6 | 6th Army |
| 7 | NORAD |
| | |

The user is unable to modify a data base if it is open for read access



UNCLAS

Search for:

Replace with:

Whole Word

Case Sensitive

Replace All

Search **Replace** **Close** **Help**

