CA IDMS - 19.0
Using SASO

Date: 16-Jan-2018
This Documentation, which includes embedded help systems and electronically distributed materials, (hereinafter referred to as the "Documentation") is for your informational purposes only and is subject to change or withdrawal by CA at any time. This Documentation is proprietary information of CA and may not be copied, transferred, reproduced, disclosed, modified or duplicated, in whole or in part, without the prior written consent of CA.

If you are a licensed user of the software product(s) addressed in the Documentation, you may print or otherwise make available a reasonable number of copies of the Documentation for internal use by you and your employees in connection with that software, provided that all CA copyright notices and legends are affixed to each reproduced copy.

The right to print or otherwise make available copies of the Documentation is limited to the period during which the applicable license for such software remains in full force and effect. Should the license terminate for any reason, it is your responsibility to certify in writing to CA that all copies and partial copies of the Documentation have been returned to CA or destroyed.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, CA PROVIDES THIS DOCUMENTATION "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL CA BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY LOSS OR DAMAGE, DIRECT OR INDIRECT, FROM THE USE OF THIS DOCUMENTATION, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST INVESTMENT, BUSINESS INTERRUPTION, GOODWILL, OR LOST DATA, EVEN IF CA IS EXPRESSLY ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE.

The use of any software product referenced in the Documentation is governed by the applicable license agreement and such license agreement is not modified in any way by the terms of this notice.

The manufacturer of this Documentation is CA.

Provided with “Restricted Rights.” Use, duplication or disclosure by the United States Government is subject to the restrictions set forth in FAR Sections 12.212, 52.227-14, and 52.227-19(c)(1) - (2) and DFARS Section 252.227-7014(b)(3), as applicable, or their successors.

Copyright © 2017 CA. All rights reserved. All trademarks, trade names, service marks, and logos referenced herein belong to their respective companies.
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA IDMS SASO Customization Macro</td>
<td>10</td>
</tr>
<tr>
<td>CA IDMS SASO Security</td>
<td>10</td>
</tr>
<tr>
<td>Online Access to Documents</td>
<td>11</td>
</tr>
<tr>
<td>Browse Through Topic Text</td>
<td>11</td>
</tr>
<tr>
<td>Modify Topic Text</td>
<td>11</td>
</tr>
<tr>
<td>Reorganize Document</td>
<td>11</td>
</tr>
<tr>
<td>Multiple Database Environment</td>
<td>11</td>
</tr>
<tr>
<td>Organization of the Document</td>
<td>12</td>
</tr>
<tr>
<td>Other Important CA IDMS SASO Online Features</td>
<td>12</td>
</tr>
<tr>
<td>Define Topic Keywords</td>
<td>12</td>
</tr>
<tr>
<td>Define Related Subjects</td>
<td>13</td>
</tr>
<tr>
<td>Provide for Print Control</td>
<td>13</td>
</tr>
<tr>
<td>Retain Unique Profiles</td>
<td>13</td>
</tr>
<tr>
<td>Recover to Previous CA IDMS SASO Session</td>
<td>14</td>
</tr>
<tr>
<td>Standards Installed on a CA IDMS/DB</td>
<td>14</td>
</tr>
<tr>
<td>Adding Multiple CA IDMS SASO Documents</td>
<td>15</td>
</tr>
<tr>
<td>Step 1. Create an Alternate DMCL Segment</td>
<td>15</td>
</tr>
<tr>
<td>Step 2. Allocate and Initialize the New Database Files</td>
<td>16</td>
</tr>
<tr>
<td>Step 3. Prepare Your CA IDMS/DC Environment</td>
<td>17</td>
</tr>
<tr>
<td>Step 4. Define New Database to CA IDMS SASO Document Control Structure</td>
<td>17</td>
</tr>
</tbody>
</table>
Step 5. Load the Database ................................................................. 17
Batch Utility Functions ................................................................. 18
Online Functions ................................................................. 18

CA IDMS SASO Sessions ................................................................. 18
Signing on to CA IDMS SASO ................................................................. 18
CA IDMS SASO Security ................................................................. 19
CA IDMS SASO Primary Menu Screen ................................................................. 20
  Document List Screen ................................................................. 20
CA IDMS SASO Options ................................................................. 20
  Browse Option ................................................................. 21
  Edit Option ................................................................. 21
  Utilities Option ................................................................. 22
    Structure Utilities ................................................................. 22
    Print Utilities ................................................................. 23
    Change Utility ................................................................. 23
  Maintenance Option ................................................................. 23
  Document Utilities Option ................................................................. 24
    Document Definition Utilities ................................................................. 24
    Document Maintenance ................................................................. 25
    Copy Functions ................................................................. 25
      Encyclopedia Function ................................................................. 25
  Tutorial Option ................................................................. 25
  Exit Option ................................................................. 25
CA IDMS SASO Structure Lists ................................................................. 26
  SectionList Screen ................................................................. 26
  Subject List Screen ................................................................. 27
  Topic List Screen ................................................................. 27
    RELATORS Command ................................................................. 28
  Subject List by Subject Name Index Screen ................................................................. 28
  Topic List by Topic Name Index Screen ................................................................. 29
  Topic List by Topic Keyword Index Screen ................................................................. 30
  Related Subjects List Screen ................................................................. 30
Signing Off CA IDMS SASO ................................................................. 31
What is Browse Option? ................................................................. 32
Accessing Document Text ................................................................. 32
  Direct Access ................................................................. 32
  Indirect Access ................................................................. 32
CA IDMS SASO Screens ................................................................. 33
  Browse Entry Screen ................................................................. 34
Browse Topic Text Screen ................................................................. 34
About Edit Option ........................................................................... 35
Access Document Text .................................................................... 35
Direct Access .................................................................................. 35
Indirect Access ............................................................................... 36
IDMS SASO Screens ...................................................................... 36
Edit Entry Screen .......................................................................... 37
Edit Topic Text Screen .................................................................. 38
Utilities Options - IDMS SASO ....................................................... 38
Structure Utilities .......................................................................... 39
Print Utilities ................................................................................ 39
Change Utility ................................................................................ 39
CA IDMS SASO Security 2 .............................................................. 39
Utilities Menu ................................................................................ 39
SectionSecurity ............................................................................ 40
SectionSecurity SectionList ........................................................... 41
Rename/Delete Structure Utility ...................................................... 42
Confirm Delete ............................................................................... 42
Add/Insert Structure Utility ............................................................ 43
Reorganize Structure Utility ........................................................... 44
Subject Relator Utility .................................................................... 44
Establishing and Deleting Subject Relationships .......................... 45
Document Configuration Utility .................................................... 45
Printer Configuration Utility .......................................................... 46
Printer Configuration List ............................................................... 47
Printer Information ....................................................................... 48
Printer Device JCL ........................................................................ 48
OCL Commands List ..................................................................... 49
Add Print Control Directive ............................................................ 50
OCL Printer Information ................................................................. 50
Print Request ................................................................................ 51
Change Structure Statistics ........................................................... 52
Update Assignment ........................................................................ 53
Purpose of Maintenance Option .................................................... 54
Maintenance Security ..................................................................... 54
Creating Maintenance ................................................................... 54
Off-loading Maintenance ............................................................... 55
Uploading Maintenance ................................................................. 55
Enhancement Structure ................................................................. 56
SASO Sessions Screens ................................................................. 56
Release Maintenance List ............................................................. 57

Using SASO 6
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report Output</td>
<td>86</td>
</tr>
<tr>
<td>Long Report (ESSMLOD)</td>
<td>87</td>
</tr>
<tr>
<td>Change Report (ESSMLOD)</td>
<td>87</td>
</tr>
<tr>
<td>Summary Report (ESSMLOD)</td>
<td>88</td>
</tr>
<tr>
<td>Upload Topic Text Structure (ESSTEXT)</td>
<td>90</td>
</tr>
<tr>
<td>Input File Examples</td>
<td>91</td>
</tr>
<tr>
<td>Report Output</td>
<td>91</td>
</tr>
<tr>
<td>Print CA IDMS SASO Documents (ESSPRINT)</td>
<td>92</td>
</tr>
<tr>
<td>Report Output</td>
<td>92</td>
</tr>
<tr>
<td>CA IDMS SASO Operations</td>
<td>93</td>
</tr>
<tr>
<td>Terminal Type</td>
<td>93</td>
</tr>
<tr>
<td>Printer Characteristics</td>
<td>93</td>
</tr>
<tr>
<td>Print Macros (OCL Commands)</td>
<td>94</td>
</tr>
<tr>
<td>Processing of DEVICE Types for All Printers</td>
<td>94</td>
</tr>
<tr>
<td>Disk/Tape Output Options</td>
<td>94</td>
</tr>
<tr>
<td>3800 Printer Support</td>
<td>95</td>
</tr>
<tr>
<td>Data Structure</td>
<td>96</td>
</tr>
<tr>
<td>Hierarchical Update Tracking</td>
<td>98</td>
</tr>
<tr>
<td>Primary Document Update Tracking</td>
<td>98</td>
</tr>
<tr>
<td>Release Maintenance Area Update Tracking</td>
<td>98</td>
</tr>
<tr>
<td>Printer Configuration Update Tracking</td>
<td>99</td>
</tr>
<tr>
<td>Internal Tracking Identifiers</td>
<td>99</td>
</tr>
<tr>
<td>Purpose of Internal Tracking Identifiers</td>
<td>99</td>
</tr>
<tr>
<td>Reviewing Internal Tracking Identifiers</td>
<td>100</td>
</tr>
<tr>
<td>CA IDMS SASO Security 4</td>
<td>101</td>
</tr>
<tr>
<td>Securing CA IDMS SASO Tasks</td>
<td>101</td>
</tr>
<tr>
<td>Securing CA IDMS SASO Documents</td>
<td>104</td>
</tr>
<tr>
<td>Securing CA IDMS SASO Document Chapters</td>
<td>104</td>
</tr>
<tr>
<td>Symbolic Parameter Security</td>
<td>105</td>
</tr>
<tr>
<td>CA IDMS SASO Backups</td>
<td>105</td>
</tr>
<tr>
<td>Migrating the CA IDMS SASO Databases</td>
<td>105</td>
</tr>
<tr>
<td>Executing Batch Utilities in Local Mode</td>
<td>106</td>
</tr>
<tr>
<td>CA IDMS SASO Customization Macros</td>
<td>106</td>
</tr>
<tr>
<td>Online Documentation Print Utility 3</td>
<td>107</td>
</tr>
<tr>
<td>Online Message Facility 1</td>
<td>109</td>
</tr>
</tbody>
</table>
Using SASO

CA IDMS SASO is an interactive online tool that enhances the communication of standards and sectionlines. It also provides an alternative to printed documents. CA IDMS SASO provides you with comprehensive online documentation.
CA IDMS SASO features an easy method for creating and applying enhancements to your company documents. Document updates are created by you using CA IDMS SASO batch or online utility functions. These utilities compare two documents, placing the differences derived in the release maintenance area of your database. Once a document update or a set of document updates is loaded into your database, you can then select and apply the enhancements you want to permanently incorporate into your document.

CA IDMS SASO Customization Macro

You can use the CA IDMS SASO product tuning macro ESSTPARM to modify the following:

- Direct dictionary access to online documentation
- Change default task code
- Change default document name
- Supply default print request JCL job card lines.

CA IDMS SASO Security

The CA IDMS SASO integrated security feature provides security checking for user authority to access CA IDMS/DC secured resources at the following levels:

- CA IDMS SASO tasks
- Documents
- Chapters.

The online print function can be secured through specification of symbolic USERID and PASSWORD for input to job control statements.

CA IDMS SASO online documentation includes:

- Online Access to Documents (see page 11)
- Multiple Database Environment (see page 11)
- Organization of the Document (see page 12)
- Other Important CA IDMS SASO Online Features (see page 12)
- Standards Installed on a CA IDMS/DB (see page 14)
- Adding Multiple CA IDMS SASO Documents (see page 15)
- CA IDMS SASO Sessions (see page 18)
- CA IDMS SASO Batch Utilities (see page 79)
- CA IDMS SASO Operations (see page 93)
Online Access to Documents

Contents
- Browse Through Topic Text (see page 11)
- Modify Topic Text (see page 11)
- Reorganize Document (see page 11)

Once installed, any CA IDMS SASO document can be accessed online using menu-driven screens. CA IDMS SASO includes several features that allow you to browse, modify, and reorganize a document.

Browse Through Topic Text

The browse feature enables you to access and read any CA IDMS SASO document that resides on the CA IDMS SASO CA IDMS/DB. It does not allow you to create, modify, or delete text.

Modify Topic Text

The edit feature allows you to establish topic text using various text-editing functions. These text-editing functions enable you to create, change, or delete text. Print control characters can also be imbedded within topic text.

These print control characters let you highlight and underline words, control line spacing, control page ejection, center lines of text, and mark blocks of revised text.

Reorganize Document

You can reorganize a document by changing the order of sections, subjects, and topics.

Entire sections, subjects, or topics can be relocated from one position to another position within the same document.

Multiple Database Environment

CA IDMS SASO features a multiple database environment under a single central version (CV). When your documentation is housed on the CA IDMS/DB, you can use all of the online and batch features of CA IDMS SASO to access and maintain the documentation.
Organization of the Document

Documents are organized by section, subject, and topic. This arrangement makes a document easy to maintain and simplifies the application of enhancements. See Exhibit 2.1 for an example of document organization.

Chapter 1
Subject 1.1
   Topic 1.1.0
   Topic 1.1.1
Subject 1.2
   Topic 1.2.0
   Topic 1.2.1

Chapter 2
Subject 2.1
   Topic 2.1.0
   Topic 2.1.1
Subject 2.2
   Topic 2.2.0
   Topic 2.2.1

Exhibit 2.1: Document Organization

Other Important CA IDMS SASO Online Features

Contents
- Define Topic Keywords (see page 12)
- Define Related Subjects (see page 13)
- Provide for Print Control (see page 13)
- Retain Unique Profiles (see page 13)
- Recover to Previous CA IDMS SASO Session (see page 14)

CA IDMS SASO includes other features that enable you to utilize any CA IDMS SASO document as an efficient online tool.

Define Topic Keywords

The topic keyword feature allows authorized users to create, change, or delete specific topic keywords. When one or more keywords are selected, all related topics are displayed.
Define Related Subjects

The related subjects feature lets an authorized user create or delete subject relationships. When a subject is selected, all related subjects are displayed.

Provide for Print Control

The online print control facility enables you to:

- Print an entire CA IDMS SASO document
- Print ranges of sections, subjects, or topics
- Print selected sections, subjects, topics, or indexes
- Implement CA IDMS SASO word processing commands
- Implement user-defined print control directives
- Direct print output to TAPE or DISK.

Retain Unique Profiles

CA IDMS SASO includes retention of user profiles and/or retention of profile information by terminal identifiers.

The profile retention feature enables you to retain:

- Document name last specified for access
- Chapter, subject, and topic reference identifiers last specified for access
- Subject, topic, and topic keyword index names previously specified for access
- Job information specified for print request
- PF key definitions
- Text-editing line commands and scroll options.
Recover to Previous CA IDMS SASO Session

The recovery feature allows you to recover to the previous screen you were accessing when an abnormal exit from CA IDMS SASO occurs.

In order to recover successfully, you must specify either of the following at the CA IDMS SASO recovery screen:

- The user ID entered during CA IDMS/DC signon
- The logical terminal identifier.

⚠️ **Note:** If the central version (CV) becomes inactive for any reason, recovery to the previous CA IDMS SASO session is not possible.

Standards Installed on a CA IDMS/DB

CA IDMS SASO uses CA IDMS as its database management system.

When a document is fully contained on a CA IDMS/DB, features inherent with CA IDMS are available, including:

- Share-ability
- CA IDMS Recoverability
- CA IDMS Backup and Restoration
- CA IDMS Security

CA IDMS SASO, on a CA IDMS/DB, allows you to:

- Selectively provide online access to CA IDMS SASO features, documents, and document components
- Automatically generate online and printed reports of subject, topic, or keyword indexes
- Automatically generate online displays and printed output of subject and topic interrelationships
- Systematically search a document for a specified search string and report the results online.
Adding Multiple CA IDMS SASO Documents

This section explains how to establish a multiple CA IDMS SASO database environment. Before you define a document to the CA IDMS SASO document control structure, you must install the physical database to house the document. This section suggests ways to establish a multiple CA IDMS SASO database environment. Once a multiple database environment is established, you can add other documents to the system.

To install a multiple database environment in a z/OS environment, follow these steps:

1. Step 1. Create an Alternate DMCL Segment (see page 15)
2. Step 2. Allocate and Initialize the New Database Files (see page 16)
3. Step 3. Prepare Your CA IDMS/DC Environment (see page 17)
4. Step 4. Define New Database to CA IDMS SASO Document Control Structure (see page 17)
5. Step 5. Load the Database (see page 17)

If completing any of the above steps produces messages, see the Online Message Facility or Messages for an explanation.

Step 1. Create an Alternate DMCL Segment

Define the physical components of the new database. You can create a new segment that identifies unique files and area names by specifying values for the following variables, adding other syntax as needed. Keys to variables are contained in source library member ESSAPPDM:

Segment Definition:

- segment-name

File Definitions:

- segment_name.file_name1
- ddname1
- data_set_name1
- segment_name.file_name2
- ddname2
- data_set_name2

Area Definitions:

- segment_name
- start_page1 through start_page5.
Figure A.1 shows file block counts that you use to determine the first page in the area. Be sure to use the same page count, page size, and file block specifications from the initial CA IDMS SASO installation segment for input to IDMSBCF.

<table>
<thead>
<tr>
<th>File Number</th>
<th>Area Name</th>
<th>Start Block</th>
<th>Block Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>File 1:</td>
<td>ESS-CTRL-AREA</td>
<td>1</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>ESS-TEXT-AREA</td>
<td>96</td>
<td>760</td>
</tr>
<tr>
<td></td>
<td>ESS-INDEX-AREA</td>
<td>856</td>
<td>95</td>
</tr>
<tr>
<td>File 2:</td>
<td>ESS-RELSE-AREA</td>
<td>1</td>
<td>240</td>
</tr>
<tr>
<td></td>
<td>ESS-RTEXT-AREA</td>
<td>241</td>
<td>235</td>
</tr>
</tbody>
</table>

**Exhibit A.1: Determine First Page Number in Area**

*Note:* There should be only one CA IDMS SASO Document Control segment (ESSFIL3, ESS-CTRLD-AREA) per central version (CV). Therefore, do not include File 3 in this step.

**Step 2. Allocate and Initialize the New Database Files**

1. Allocate files for the new database. Use a standard space allocation job for your environment. Include the dataset names DDnames defined in the Create Alternate DMCL Segment section above and using the sectionlines in Figure A.2, specify the correct number of blocks.

<table>
<thead>
<tr>
<th>File Number</th>
<th>Number of Blocks</th>
<th>Page Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>File 1</td>
<td>950</td>
<td>9076</td>
</tr>
<tr>
<td>File 2</td>
<td>475</td>
<td>9076</td>
</tr>
</tbody>
</table>

**Exhibit A.2: Space Allocation Requirements**

The page size, page count, and number of blocks may have been changed when you executed the Create Alternate DMCL Segment step. If these changes were made, make those same modifications here.

- Initialize the new database. Specify values for the following variables using source library member ESSAPPI as input to IDMSBCF. Keys to variables are contained in member ESSAPPI:
  - segment_name
  - file_name1
  - file_name2
CA IDMS - 19.0

Note: Each CV can have only one File 3 (ESSFIL3, ESS-CTRLD-AREA). Therefore, do not include File 3 in this step.

Step 3. Prepare Your CA IDMS/DC Environment

1. Specify the segment name (segment_name) defined in the Create Alternate DMCL Segment step and the name of your system DMCL (your_dmcl_name) in source library member ESSAPPIN. Include the modified ESSAPPIN member into the global DMCL of your target CV.

2. Include the new initialized database files in the start-up JCL of your target CV.

3. Specify your system database table name (db_table_name), the unique database name of your document (db_name), and the new segment name (segment_name) defined in the Create Alternate DMCL Segment step, in source library member ESSAPPDB. Include modified member EESSPPDB in your system database name table.

4. Refer to the User Section for the product you are installing to address security issues.

5. Regenerate your system DMCL, Database Name Table, and the target DC/UCF-CV system.

Note: A key to variables in the above steps is contained in source library members.

Step 4. Define New Database to CA IDMS SASO Document Control Structure

Define the database name (db_name) from Step 3 above to the CA IDMS SASO Document Control Structure by using the Add Document utility (see Add Document Utility (see page 70)).

This name must match the unique database name (db_name) included in your system database name table.

Step 5. Load the Database

Contents
- Batch Utility Functions (see page 18)
- Online Functions (see page 18)

Load the database using one of the following:
- The batch utility functions to download and upload a specific document
The online functions to establish document structures.

Batch Utility Functions

See Batch Utilities for information on the following operations:

- ESSDLOD downloads an installed CA IDMS SASO database structure to a transportable file.
- ESSULOD uploads the CA IDMS SASO downloaded structure file to a specified database.
- ESSTEXT uploads 80 byte records from a sequential file (TEXT) into the primary areas of the installed database as topic text. You can upload multiple topics simultaneously to a document.

Online Functions

See CA IDMS SASO Sessions for information on the following functions:

- Defining the document and structures.
- Defining textual contents and print control directives.
- Establishing document and printer configurations for printing the document.

CA IDMS SASO Sessions

This section provides information on signing on to CA IDMS SASO, the options that can be selected from the CA IDMS SASO Primary Menu screen, and the signoff procedure.

The sections describe:

- How to sign on to CA IDMS SASO
- The Primary CA IDMS SASO Menu Screen and the CA IDMS SASO options: Browse, Edit, Utilities, Maintenance, Document Utilities, Tutorial, and Exit
- CA IDMS SASO structure lists
- How to sign off of CA IDMS SASO.

Signing on to CA IDMS SASO

To sign on to CA IDMS SASO, follow the steps listed below unless your company has implemented different sign on procedures.

1. Access your online CA IDMS/DC system.
2. At the CA IDMS/DC system prompt, type the task code assigned to the CA IDMS SASO system and press the ENTER key. A task code is assigned at the time of installation. This entry displays the CA IDMS SASO Primary Menu screen shown in Exhibit 3.1.

CA IDMS SASO Security

If your company has implemented task, document, or section security, access into CA IDMS SASO is limited to the level of authority assigned to a user or group. The CA IDMS SASO securable components are:

- Task
- Document - Update or Browse
- Section- Update or Browse.

For more information, see the following topics:

- CA IDMS SASO Primary Menu Screen (see page 20)
- CA IDMS SASO Options (see page 20)
- CA IDMS SASO Structure Lists (see page 26)
- Signing Off CA IDMS SASO (see page 31)
- What is Browse Option? (see page 32)
- Accessing Document Text (see page 32)
- CA IDMS SASO Screens (see page 33)
- About Edit Option (see page 35)
- Access Document Text (see page 35)
- IDMS SASO Screens (see page 36)
- Utilities Options - IDMS SASO (see page 38)
- CA IDMS SASO Security 2 (see page 39)
- Utilities Menu (see page 39)
- Purpose of Maintenance Option (see page 54)
- Maintenance Security (see page 54)
- Creating Maintenance (see page 54)
- SASO Sessions Screens (see page 56)
- About Document Utilities (see page 67)
- CA IDMS SASO Security Option (see page 67)
- Document Utilities Provided (see page 67)
- Document Utilities (see page 68)
- Understand the Tutorial Option (see page 77)
- Using CA IDMS SASO Online Documentation (see page 78)
- EXIT (see page 78)
- Purpose of Exit Option (see page 79)
CA IDMS SASO Primary Menu Screen

The CA IDMS SASO Primary Menu screen provides CA IDMS SASO processing options, a field to select documents, a message field, copyright information, and system identifications.

For more information on the CA IDMS SASO Primary Menu screen, see the CA IDMS SASO online documentation.

Copyright (c) 2003 CA, Inc.

Exhibit 3.1: CA IDMS SASO Primary Menu Screen

Document List Screen

To select a document from the Document List screen, place the cursor next to the document you want, type an $ and press the ENTER key. If you selected an option at the Primary Menu, you will proceed to the function selected. If you did not, you are returned to the Primary Menu where you can select an option. Control then passes to the function selected.

Copyright (c) 2003 CA, Inc.

Exhibit 3.2: Document List Screen

CA IDMS SASO Options

The Primary CA IDMS SASO Menu provides the following options:
The Primary CA IDMS SASO Menu provides the following options:

- **Browse Option** (see page 21)
- **Edit Option** (see page 21)
- **Utilities Option** (see page 22)
  - **Structure Utilities** (see page 22)
  - **Print Utilities** (see page 23)
  - **Change Utility** (see page 23)
- **Maintenance Option** (see page 23)
- **Document Utilities Option** (see page 24)
  - **Document Definition Utilities** (see page 24)
  - **Document Maintenance** (see page 25)
  - **Copy Functions** (see page 25)
  - **Encyclopedia Function** (see page 25)
- **Tutorial Option** (see page 25)
- **Exit Option** (see page 25)

### Browse Option

The Browse Option allows you to read the contents of a document. You can review the contents of a document by section, subject, or topic. This option does not allow you to update documents.

Specifications at the Browse Entry screen allow you to selectively display the contents of a document.

You have several browse entry options:

- You can display lists of subjects, topics, and topic keywords by entering index names
- You can display lists of subjects and topics and topic text by entering reference identifiers
- You can review the list of sections contained in a document by leaving blank entries.

Once you are in a subject or topic list, you can also display a list of related subjects.

### Edit Option

The Edit Option allows you to add, change, or delete document text using text editing commands and PF keys. CA IDMS SASO print control characters or print control characters that you define can also be inserted in document text. CA IDMS SASO print control characters highlight and underline words, create blank lines within the text, and control text indentation.

You can display text by specifying section, subject, and topic reference identifiers.
Utilities Option

The Utilities Option allows you to define and organize sections, subjects, and topics. The sections, subjects, and topics of a document are referred to as structures. The structural components provide the framework for the text of documents.

The Utilities Option provides the following utilities:

**Structure Utilities**

- Assign Section Level Security
- Rename/Delete Structures
- Add/Insert Structures and Keywords
- Reorganize Structures
- Relate Subjects

**Print Utilities**

- Set Document Configurations for Print
- Set Printer Configurations
- Print

**Change Utility**

- Change Structure Statistics.

**Structure Utilities**

The following is a description of the structure utilities:

- **SECURITY** - This utility allows you to assign CA IDMS security to sections contained in a document.

- **RENAME/DELETE** - This utility allows you to rename or delete a section, subject, or topic and topic keyword. To ensure against error when using the delete function, a warning screen is displayed, permitting you to confirm or cancel the deletion.

- **ADD/INSERT** - This utility permits you to add or insert a new section, subject, or topic and topic keyword. When a new section, subject, or topic is added, only the physical "structure" is created. Any text that is added to a newly created structure must be done using the Edit Option.

- **REORGANIZE** - This utility makes it possible to move a section, subject, or topic from one part of a document to another.

- **SUBJECT RELATOR** - This utility is used to associate or disassociate one subject with another.
Print Utilities

The following is a description of the print utilities:

- **DOCUMENT CONFIGURATION** - This utility enables you to plan the printed arrangement and layout of a document. Specifically, you can:
  - Define the titles to be printed and displayed in the screen headings
  - Specify section, subject, and topic highlighting options for the printed document
  - Determine the number of lines between topics.

- **PRINTER CONFIGURATION** - This utility allows you to:
  - Define or remove logical printers from the CA IDMS SASO system
  - Display a list of logical printers that are in use
  - Alter the hexadecimal initialization and control characters of a specific printer within a printer device verb list
  - Define printer-specific macros
  - Display and tailor the JCL associated with a specific printer to conform with your operating system and job accounting requirements.

- **PRINT** - This utility enables you to print an entire document or ranges of specific sections, subjects, and topics. You can also specify whether the pages are to be printed single- or double-sided, the number of print lines per page, and the column number of the left-most margin.

Change Utility

The following is a description of the Change utility:

- **STATISTICS** - This utility enables you to change section, subject, or topic statistics. Statistics you can change include the date the structure was created, the date it was last revised, and who revised.

Maintenance Option

The Maintenance Option allows you to selectively create document enhancements and update a document with the enhancements you create.

You can use both batch and online utilities to create maintenance and updates.

You load document enhancements into the Maintenance Release area of your database by running batch programs or using the online utility functions supplied by CA IDMS SASO. You can then use the online Maintenance Option to review and selectively update your document with enhancements.
Document Utilities Option

The Document Utilities Option allows you to add and maintain documents, assign document security, and search a document for search strings. A document can be any document you define using these utilities. Some examples might include personnel or departmental sectionlines.

The Document Utilities Option provides the following utilities:

- Assign Document Security
- Rename/Delete Document
- Add Document
- Create Document Updates
- Add/Copy Document Configuration
- Add/Copy Printer Configuration
- String Search Facility.

The first three utilities (Assign Document Security, Rename/Delete Document, and Add Document) allow you to define a document to the CA IDMS SASO document control structure and assign document security classes for browse and update functions. They are called document definition utilities.

The Create Document Updates utility enables you to create document updates. This utility is called the Document Maintenance utility.

The copy functions (Add/Copy Document Configuration and Add/Copy Printer Configuration) enable you to copy document or printer configurations from one CA IDMS SASO database to another.

The last utility (String Search Facility) is called the Encyclopedia Function. This facility allows you to search an entire document for a specified search string.

Document Definition Utilities

The following is a description of the document definition utilities:

- **SECURITY** - This utility allows you to assign CA IDMS security to documents.

- **RENAME/DELETE** - This utility enables you to change or delete the name and description of a document in the CA IDMS SASO document control structure.

- **ADD** - This utility lets you define a document to the CA IDMS SASO document control structure. The information added to the control structure includes a document’s name, and document description.
This utility does not establish the database for a document. The database that houses a document should be established before using this utility. You can add as many document names and descriptions as desired, but if the database has not been established, you cannot access them.

Document Maintenance

The following is a description of the maintenance utilities:

- **MAINTENANCE** - With this utility, you can create maintenance by comparing two documents at the section, subject, or topic level. CA IDMS SASO then stores any differences as equivalent maintenance in one of the selected documents.

You can also create maintenance within a single document. This option is considered a direct COPY of a section, subject, or topic from the permanent side of a document to the release maintenance side of the same document.

Copy Functions

The following is a description of the copy functions:

- **DOCUMENT CONFIGURATION** - This function allows you to apply the configurations specified for one document to another document.

- **PRINTER CONFIGURATION** - This utility allows you to copy the printer configurations set for one document to another document.

Encyclopedia Function

- **STRING SEARCH** - This facility allows you to search an entire document for all occurrences of a specified search string. The results from string matches located in a document are presented in the form of a topic list in Browse or Edit mode. You may then select topics from this list and review or change occurrences of the string found in topic text using editing commands.

Tutorial Option

The Tutorial Option provides online documentation about the features of CA IDMS SASO. You can view online documentation sequentially, or you can select topics from lists that are displayed on the online documentation pages.

Exit Option

When you select the Exit Option, the user profile is retained, all CA IDMS SASO operations are terminated, and CA IDMS SASO returns you to the CA IDMS/DC entry screen.
CA IDMS SASO Structure Lists

Access to CA IDMS SASO document sections, subjects, and topics for the purpose of performing CA IDMS SASO utilities is accomplished using CA IDMS SASO structure lists:

- SectionList Screen (see page 26)
- Subject List Screen (see page 27)
- Topic List Screen (see page 27)
  - RELATORS Command (see page 28)
- Subject List by Subject Name Index Screen (see page 28)
- Topic List by Topic Name Index Screen (see page 29)
- Topic List by Topic Keyword Index Screen (see page 30)
- Related Subjects List Screen (see page 30)

**Note:** CA IDMS SASO enables you to access structure lists from the Browse, Edit, and most Structure Utility functions. To avoid unnecessary repetition, this section makes reference to Structure Lists as they relate to the Browse and Edit Options.

SectionList Screen

The SectionList screen provides a complete list of all sections contained in a document.

This screen appears when no reference identifiers or index names are specified at the Browse Entry screen and you press the ENTER key.

You can use the STATS ON|OFF command to display statistics about the sections.

The SORTORD command enables you to reorder lists in ascending or descending order.

The REFRESH command is also available to clear the SectionList screen and redisplay sections without line command or utility process codes and indicators.

Refer to the CA IDMS SASO online documentation for descriptions and instructions for each field.
Subject List Screen

The Subject List screen provides a complete list of all the subjects within a section.

A list of subjects appears when you either type a section ID at the Browse Entry screen or select a section at the SectionList screen. After you type in the appropriate information and press the ENTER key, the Subject List screen appears. This screen provides a complete list of all subjects associated with the selected section.

You can use the STATS ON|OFF command to display statistics about the subjects.

The SORTORD command enables you to order the topic list by statistical information, topic names, keyword names, or topic reference identifiers.

You can also specify the REFRESH command to redisplay the Topic List without process indicators and utility Codes.

Refer to the CA IDMS SASO online documentation for descriptions and instructions for each field.

<table>
<thead>
<tr>
<th>ID</th>
<th>SUBJECT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>DATABASE SYSTEM DEVELOPMENT PROCESS - OVERVIEW</td>
</tr>
<tr>
<td>3.2</td>
<td>SYSTEM INITIATION REVIEW PROCEDURE</td>
</tr>
<tr>
<td>3.3</td>
<td>LOGICAL DATABASE DESIGN REVIEW PROCEDURE</td>
</tr>
<tr>
<td>3.4</td>
<td>PHYSICAL DATABASE DESIGN REVIEW PROCEDURE</td>
</tr>
<tr>
<td>3.5</td>
<td>SYSTEM REVIEW PROCEDURE</td>
</tr>
<tr>
<td>3.6</td>
<td>TEST SYSTEM GENERATION PROCEDURE</td>
</tr>
<tr>
<td>3.7</td>
<td>IDMS APPLICATION MIGRATION - TEST TO PRODUCTION</td>
</tr>
<tr>
<td>3.8</td>
<td>TECHNICAL SUPPORT PROCEDURE</td>
</tr>
<tr>
<td>3.9</td>
<td>IDMS PROBLEM SOLVING CHECKLIST PROCEDURE</td>
</tr>
<tr>
<td>3.10</td>
<td>PROGRAM REVIEW (WALKTHROUGH) PROCEDURE</td>
</tr>
<tr>
<td>3.11</td>
<td>IDD INPUT REVIEW AND CONTROL PROCEDURE</td>
</tr>
<tr>
<td>3.12</td>
<td>CHANGES TO STANDARDS, PROCEDURES OR GUIDELINES</td>
</tr>
<tr>
<td>3.13</td>
<td>DEVIATION FROM STANDARDS, PROCEDURES OR GUIDELINES</td>
</tr>
</tbody>
</table>

**END**

Exhibit 3.4: Subject List Screen (Browse)

Topic List Screen

The Topic List screen provides a complete list of all topics and their associated keywords within a subject.
A list of topics appears when you type a section and subject ID at the Browse Entry screen and press the ENTER key, or when you select a subject at the Subject List, Subject List by Subject Name Index, or Related Subject List screens and press the ENTER key. The text of a topic can be displayed from the Topic List screen by selecting a topic and pressing the ENTER key.

You can use the STATS ON|OFF command to display statistics about the topics.

The SORTORD command enables you to order the topic list by statistical information, topic names, keyword names, or topic reference identifiers.

You can also specify the REFRESH command to redisplay the Topic List without process indicators and utility Codes.

Refer to the CA IDMS SASO online documentation for descriptions and instructions for each field.

**RELATORS Command**

Entry of the RELATORS command displays a list of subjects related to the section and subject for which the topic list was displayed (Related Subjects List screen). For more information on the RELATORS command, see the CA IDMS SASO online documentation.

```
STANDARDS, PROCEDURES, AND GUIDELINES
CA, Inc.          Release nn.nn
                  mm/dd/yy hh:mm
CA IDMS/SASO Rnn.nn--- 2.1 Naming Conventions Standard ------------------------

ID  KEYWORD NAME       TOPIC NAME
2.1.0 Schema            Schema Name
2.1.1 DMCL               DMCL Name
2.1.2 Subschema         Subschema Name
2.1.3 USER              USER NAME
2.1.4 SYSTEM            SYSTEM NAME
2.1.5 ELEMENT           ELEMENT NAME
2.1.6 RECORD            IDS RECORD NAME
2.1.7 RECORD            NON-IDMS RECORD NAME
2.1.8 RECORD            ADSO WORK, MAP, AND GLOBAL RECORD NAMES
2.1.9 LRF               LOGICAL RECORD
2.1.10 VIEW              VIEW ID NAME
2.1.11 SET               SET NAME
2.1.12 AREA              AREA NAME
2.1.13 BUFFER           BUFFER NAME
2.1.14 PROGRAM          PROGRAM NAME
```

*Exhibit 3.5: Topic List Screen (Browse)*

**Subject List by Subject Name Index Screen**

The Subject List by Subject Name Index screen provides a list of all subjects which have the same name index.

A list of subjects appears when you type a full or partial subject name and press the ENTER key at the Browse Entry screen.

You can use the STATS ON|OFF command to display statistics about the subjects.
The SORTORD command enables you to order the Subject List by statistical information, subject names, or by subject reference identifiers.

You can also specify the REFRESH command to redisplay the Subject List without process indicators and utility codes.

Refer to the online documentation for descriptions and instructions for each field.

Exhibit 3.6: Subject List by Subject Name Index Screen (Browse)

Topic List by Topic Name Index Screen

The Topic List by Topic Name Index screen provides a list of all topics with the same name indexes contained in a document.

A list of topics appears when you type a full or partial topic name and press the ENTER key at the Browse Entry screen.

You can use the STATS ON|OFF command to display statistics about the topics.

The SORTORD command enables you to order the topic list by statistical information, topic names, keyword names, or topic reference identifiers.

You can also specify the REFRESH command to redisplay the Topic List without process indicators and utility codes.

Refer to the online documentation for descriptions and instructions for each field.
Topic List by Topic Keyword Index Screen

The Topic List by Topic Keyword Index screen provides a list of all topic keywords contained in a document with the same keyword index. Topics and topic reference ID numbers associated with the keywords are also displayed.

A list of keywords appears when you type a full or partial keyword name and press the ENTER key at the Browse Entry screen.

You can use the STATS ON|OFF command to display statistics about the topics.

The SORTORD command enables you to order the topic list by statistical information, topic names, keyword names, or topic reference identifiers.

You can also specify the REFRESH command to redisplay the Topic List without process indicators and utility codes.

Refer to the online documentation for descriptions and instructions for each field.

<table>
<thead>
<tr>
<th>ID</th>
<th>KEYWORD NAME</th>
<th>TOPIC NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.3.1</td>
<td>ADS/ONLINE</td>
<td>ADS/O FLOW WORKSHEET</td>
</tr>
<tr>
<td>A.3.2</td>
<td>ADS/ONLINE</td>
<td>ADS/O PROCESS WORKSHEET</td>
</tr>
<tr>
<td>A.3.3</td>
<td>ADS/ONLINE</td>
<td>ADS/O MAP SCREEN LAYOUT</td>
</tr>
<tr>
<td>A.3.4</td>
<td>ADS/ONLINE</td>
<td>ADS/O MAP ATTRIBUTE</td>
</tr>
<tr>
<td>A.3.6</td>
<td>ADS/ONLINE</td>
<td>SAMPLE ON-LINE SCREEN LAYOUT</td>
</tr>
<tr>
<td>A.3.21</td>
<td>ADS/ONLINE</td>
<td>ADS/O APPLICATION FUNCTION WORKSHEET</td>
</tr>
<tr>
<td>A.3.22</td>
<td>ADS/ONLINE</td>
<td>ADS/O APPLICATION RESPONSE WORKSHEET</td>
</tr>
<tr>
<td>A.4.1</td>
<td>ADS/ONLINE</td>
<td>ADS/O STRUCTURE DIAGRAM</td>
</tr>
<tr>
<td>A.4.7</td>
<td>ADS/ONLINE</td>
<td>ADS/O APPLICATION STRUCTURE DIAGRAM</td>
</tr>
<tr>
<td>2.1.21</td>
<td>ADS/ONLINE</td>
<td>APPLICATION NAME</td>
</tr>
<tr>
<td>2.6.1</td>
<td>ADS/ONLINE</td>
<td>GENERAL DIALOG NOTES</td>
</tr>
<tr>
<td>2.6.9</td>
<td>ADS/ONLINE</td>
<td>ERASING DATA ONLINE</td>
</tr>
<tr>
<td>2.6.10</td>
<td>ADS/ONLINE</td>
<td>EXTERNAL PICTURES</td>
</tr>
<tr>
<td>2.6.11</td>
<td>ADS/ONLINE</td>
<td>WORK RECORD USAGE</td>
</tr>
<tr>
<td>2.6.12</td>
<td>ADS/ONLINE</td>
<td>ADS/O STRUCTURE</td>
</tr>
</tbody>
</table>

Related Subjects List Screen

The Related Subjects List screen displays a list of subjects related to the section and subject.
The Related Subjects List screen appears when you type the RELATORS command and press the ENTER key at the Topic List screen. It also appears when you select a subject with an X and press the ENTER key at the Subject List screen, Subject by Subject Name Index List screen, or at the Related Subject List screen itself.

You can also display related subjects from the Topic List by Topic Name Index screen and the Topic List by Topic Keyword Index List screen by specifying an X at the selected topic and pressing the ENTER key.

You can use the STATS ON|OFF command to display statistics about the subjects.

The SORTORD command enables you to order the Related Subjects List by statistical information.

You can also specify the REFRESH command to redisplay the Related Subjects List without process indicators and utility codes.

Refer to the online documentation for descriptions and instructions for each field.

### STANDARDS, PROCEDURES, AND GUIDELINES

**CA, Inc**

**Release nn.nn**

**Browse mm/dd/yy hh:mm**

**CA IDMS/SASO Rnn.nn---- 7.13 ASF GUIDELINES FOR THE DBA ------------------------**

<table>
<thead>
<tr>
<th>ID</th>
<th>RELATED SUBJECT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Naming Conventions Standard</td>
</tr>
<tr>
<td>Date Created: mm/dd/yy</td>
<td>1</td>
</tr>
<tr>
<td>Last Revised: mm/dd/yy</td>
<td>16:34</td>
</tr>
<tr>
<td>Revised By: BRACA01</td>
<td></td>
</tr>
<tr>
<td>Type: N/A</td>
<td></td>
</tr>
<tr>
<td>Internal ID: Chapter/2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.14</td>
</tr>
<tr>
<td>Date Created: mm/dd/yy</td>
<td>001 0000</td>
</tr>
<tr>
<td>Last Revised: mm/dd/yy</td>
<td>11:03</td>
</tr>
<tr>
<td>Revised By: CARROTS</td>
<td></td>
</tr>
<tr>
<td>Type: N/A</td>
<td></td>
</tr>
<tr>
<td>Internal ID: Chapter/2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.10</td>
</tr>
<tr>
<td>Date Created: mm/dd/yy</td>
<td>10</td>
</tr>
<tr>
<td>Last Revised: mm/dd/yy</td>
<td>17:07</td>
</tr>
<tr>
<td>Revised By: DEVDA02</td>
<td></td>
</tr>
<tr>
<td>Type: N/A</td>
<td></td>
</tr>
<tr>
<td>Internal ID: Chapter/4</td>
<td></td>
</tr>
</tbody>
</table>

*Exhibit 3.9: Related Subjects List Screen (Browse)*

## Signing Off CA IDMS SASO

You can exit CA IDMS SASO from the CA IDMS SASO Primary Menu screen or from one of the lower level screens.

To exit CA IDMS SASO from the CA IDMS SASO Primary Menu screen:

- Type an X for the Exit Option at the OPTION field and press the ENTER key.

To exit CA IDMS SASO from a lower level screen:

- Type an =X at the COMMAND field from any lower level screen and press the ENTER key.
What is Browse Option?

This section takes a closer look at the Browse Option.

Browse Option enables you to access the contents of a document. Access to a document and specific sections of a document is determined by your security execution privileges. This option does not allow you to perform updates or make changes of any kind.

Browse Security

If task, document, or section security has been implemented at your company, your CA IDMS/DC user ID used to sign on to the central version (CV) must have the following execution privileges for:

- The task category resource assigned to Browse Option tasks contained in your catalog. For more information on task security, see Operations (http://wiki-dev.ca.com/display/IDMS/Operations).


- The activity resources assigned to sections contained in a document for Browse access. For more information on section security, see Document Utilities Option (http://wiki-dev.ca.com/pages/createpage.action?spaceKey=IDMS&title=Document+Utilities+Option&linkCreation=true&fromPageId=94743496).

Accessing Document Text

Direct Access

You can directly access topic text by typing specific section, subject, and topic reference ID numbers and pressing the ENTER key at the Browse Entry screen. After you have typed in these identifiers and pressed the ENTER key, the text of the topic (associated with the specified section, subject, and topic IDs) displays as the Topic Text screen.

Indirect Access

You can also access topic text from the Browse Entry screen through the SectionList screen. The SectionList screen appears when you press the ENTER key at the Browse Entry screen when all screen fields are specified with blanks. The SectionList screen lists all of the sections contained in a document. Selecting a section from this list displays the Subject List screen. The Subject List screen displays all subjects within the selected section. Choosing a subject from this list displays the Topic List screen which displays all topics within the selected subject. Selecting a topic from this list displays the associated text (Topic Text screen).
Use CA IDMS SASO commands to scroll (forward and backward) through section, subject, topic lists, and topic text displays of more than one page.

<table>
<thead>
<tr>
<th>Browse Screen</th>
<th>Invoked By:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Primary SASO Menu Screen</td>
<td>Following the signon procedure.</td>
</tr>
<tr>
<td>2. Browse Entry Screen</td>
<td>Typing option 1 at screen 1.</td>
</tr>
<tr>
<td>3. SectionList Screen</td>
<td>Pressing the ENTER key from any blank field at screen 2.</td>
</tr>
<tr>
<td>4. Subject List Screen</td>
<td>Typing a section ID at screen 2 or selecting a section at screen 3.</td>
</tr>
<tr>
<td>5. Topic List Screen</td>
<td>Typing a section and subject ID at screen 2 or selecting a subject at screen 4, 6, or 9.</td>
</tr>
<tr>
<td>6. Subject by Subject Name Index Screen</td>
<td>Typing a full or partial subject name at screen 2.</td>
</tr>
<tr>
<td>7. Topic List by Topic Name Index Screen</td>
<td>Typing a full or partial topic name at screen 2.</td>
</tr>
<tr>
<td>8. Topic List by Topic Keyword Index Screen</td>
<td>Typing a full or partial keyword name at screen 2.</td>
</tr>
<tr>
<td>9. Related Subjects List Screen</td>
<td>Typing the RELATORS command from screen 5; selecting a subject or topic, with an X from screens 4, 6, 7, 8, and 9.</td>
</tr>
<tr>
<td>10. Topic Text Screen</td>
<td>Typing section, subject, and topic IDs at screen 2; selecting a topic at screens 5, 7, or 8.</td>
</tr>
</tbody>
</table>

Exhibit 3.10: Browse Option Screen Access.

CA IDMS SASO Screens

CA IDMS SASO provides screens, within each option, to accomplish several tasks. The following are the screens you can access using the Browse Option:

- Browse Entry
- SectionList
- Subject List
- Topic List
- Subject List by Subject Name Index
- Topic List by Topic Name Index
- Topic List by Topic Keyword Index
- Related Subjects List
Browse Entry Screen

The Browse Entry screen appears when you type 1 for the Browse Option and press the ENTER key at the CA IDMS SASO Primary Menu screen.

Refer to the online documentation for detailed information on the Browse Entry screen.

| SUBJECT ===> | (Blank for Chapter/Subjects) |
| TOPIC ===> | (Blank for Subject/Topics) |

Specify full or partial "SUBJECT", "TOPIC", or "KEYWORD" name below:

| SUBJECT BY SUBJECT NAME: |
| TOPIC BY TOPIC NAME: |
| TOPIC BY KEYWORD NAME(S): |

Exhibit 3.11: Browse Entry Screen

Browse Topic Text Screen

The Browse Topic Text screen displays the text of a selected topic. You cannot add, delete, or modify text at this level. You can only browse and scroll through topic text.

Information about the topic and topic text is displayed at this screen. You can remove information messages lines by entering the RESET or STATS OFF commands. This information can be redisplayed by entering the STATS ON command.

Refer to the online documentation for detailed information on the Browse Topic Text screen and the browse commands.

The primary test dictionary contains all MIS users and only those end users needed for prototyping and production system.

Exhibit 3.12: Browse Topic Text Screen

About Edit Option

This section takes a closer look at the function of the Edit Option. The Edit Option is used to add, modify, or delete text. The Edit Option allows authorized users to add, change, or delete topic text using editing commands and PF keys. With this option, you can implement print formatting options that let you print text using simple word processing commands. These commands allow you to control highlighting, line spacing, centering, indenting, headers, change notation, and page ejects.

Access to specific sections of a document is determined by your security authorization. If task, document, or section security has been implemented at your company, your CA IDMS/DC user ID used to sign on to the central version (CV) requires the following execution privileges for:

- Edit option task category definitions contained in your catalog. For more information on task security, see Operations.[http://wiki-dev.ca.com/display/IDMS/Operations]

- The activity resource assigned for the document Update function. For more information on document security, see Document Utilities Option.[http://wiki-dev.ca.com/pages/createpage.action?spaceKey=IDMS&title=Document+Utilities+Option&linkCreation=true&fromPageId=94743501]

- SectionUpdate activity resources. For more information on section security, see Document Utilities Option.[http://wiki-dev.ca.com/pages/createpage.action?spaceKey=IDMS&title=Document+Utilities+Option&linkCreation=true&fromPageId=94743501]

Access Document Text

You can access topic text in the following ways:

- Direct Access (see page 35)
- Indirect Access (see page 36)

Exhibit 3.13 shows how to access the screens used in the Edit Option.

Direct Access

Direct access into topic text can be achieved by typing specific section, subject, and topic reference ID numbers and pressing the ENTER key at the Edit Entry screen. See Exhibit 3.14.
After you have typed these identifiers and pressed the ENTER key, the text of the topic (associated with the specified section, subject, and topic) is displayed on the Topic Text screen.

**Indirect Access**

Entry into topic text can also be achieved from the Edit Entry screen by invoking the SectionList screen. The SectionList screen appears when you press the ENTER key from any blank field at the Edit Entry screen.

The SectionList screen lists all of the sections contained in a document. Selecting a section from this list displays the Subject List screen. This screen displays all of the subjects within the selected section. Selecting a subject from this list displays the Topic List screen. This screen displays all of the topics within the selected subject. Selecting a topic from this list then displays the associated text (Edit Text screen). Use CA IDMS SASO commands to scroll (forwards and backwards) through section, subject, topic lists, and topic text displays of more than one page.

<table>
<thead>
<tr>
<th><strong>Edit Screen:</strong></th>
<th><strong>Invoked By:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Primary SASO Menu Screen</td>
<td>Following the signon procedure.</td>
</tr>
<tr>
<td>2. Edit Entry Screen</td>
<td>Typing option 1 at screen 1.</td>
</tr>
<tr>
<td>3. SectionList Screen</td>
<td>Pressing the ENTER key from any blank field at screen 2.</td>
</tr>
<tr>
<td>4. Subject List Screen</td>
<td>Typing a section ID at screen 2 or selecting a section at screen 3.</td>
</tr>
<tr>
<td>5. Topic List Screen</td>
<td>Typing a section and subject ID at screen 2 or selecting a subject at screen 4, 6, or 9.</td>
</tr>
<tr>
<td>6. Subject by Subject Name Index Screen</td>
<td>Typing a full or partial subject name at screen 2.</td>
</tr>
<tr>
<td>7. Topic List by Topic Name Index Screen</td>
<td>Typing a full or partial topic name at screen 2.</td>
</tr>
<tr>
<td>8. Topic List by Topic Keyword Index Screen</td>
<td>Typing a full or partial keyword name at screen 2.</td>
</tr>
<tr>
<td>9. Related Subjects List Screen</td>
<td>Typing the RELATORS command from screen 5; selecting a subject or topic, with an X from screens 4, 6, 7, 8, and 9.</td>
</tr>
<tr>
<td>10. Edit Screen</td>
<td>Typing section, subject, and topic IDs at screen 2; selecting a topic at screens 5, 7, or 8.</td>
</tr>
</tbody>
</table>

*Exhibit 3.13: Edit Option Screen Access*

**IDMS SASO Screens**

The screens that are used to access topic text under the Edit Option replicate the ones under Browse. In fact, the only difference between the Browse and Edit Options is that Edit also allows you to modify text through editing commands.

- **Edit Entry Screen (see page 37)**
The following are the screens you can access using the Edit Option:

- Edit Entry
- SectionList
- Subject List
- Topic List
- Subject List by Subject Name Index
- Topic List by Topic Name Index
- Topic List by Topic Keyword Index
- Related Subjects List
- Edit Topic Text

**Edit Entry Screen**

The Edit Entry screen appears when you select option 2 (the Edit Option) at the CA IDMS SASO Primary Menu screen.

Refer to the online documentation for detailed information on the Edit Entry screen.

STANDARDS, PROCEDURES, AND GUIDELINES
CA, Inc

STOCK OPTIONS

CA IDMS/SASO Rnn.nn--- Edit Entry ---------------------------------------------

STRUCTURE REFERENCE ID:

CHAPTER ===> (Blank for Chapter List)

SUBJECT ===> (Blank for Chapter/Subjects)

TOPIC ===> (Blank for Subject/Topics)

Specify full or partial “SUBJECT”, "TOPIC", or "KEYWORD" name below:

SUBJECT BY SUBJECT NAME:
   NAME ===> 

TOPIC BY TOPIC NAME:
   NAME ===> 

TOPIC BY KEYWORD NAME(S):
   NAME ===> 

Exhibit 3.14: Edit Entry Screen
Edit Topic Text Screen

The Edit Topic Text screen displays the text of a selected topic. You can add, delete, or modify text at this level. You can also browse through topic text.

Information about the topic and topic text is displayed at this screen. You can remove information message lines by entering the RESET or STATS OFF command. This information can be redisplayed by entering the STATS ON command.

Refer to the online documentation for detailed information on the Edit Topic Text screen and the editing commands.

Utilities Options - IDMS SASO

This section takes a closer look at the Utilities Option. The Utilities Option enables you to work on the definition and organization of a document and determine how the printed document looks. This option allows you to tailor a document to suit your own needs.

Contents

- Structure Utilities (see page 39)
- Print Utilities (see page 39)
- Change Utility (see page 39)

CA IDMS SASO utilities are divided into the following categories:
Structure Utilities

- Assign SectionSecurity
- Rename/Delete Structures
- Add/Insert Structures and Keywords
- Reorganize Structures
- Relate Subjects

Print Utilities

- Set Document Configurations for Print
- Set Printer Configurations
- Print

Change Utility

- Change Structure Statistics.

CA IDMS SASO Security 2

If task, document, or section security has been implemented at your company, your CA IDMS/DC user ID used to sign on to the central version (CV) must have execution privileges for CA IDMS SASO Utility task resources, and resources assigned to documents and sections.

For more information on security, see Operations (https://docops.ca.com/display/IDMS19/Operations).

Utilities Menu

The Utilities Menu screen is invoked by entering option 3 from the CA IDMS SASO Primary Menu screen.

- SectionSecurity (see page 40)
- SectionSecurity SectionList (see page 41)
- Rename/Delete Structure Utility (see page 42)
- Confirm Delete (see page 42)
- Add/Insert Structure Utility (see page 43)
- Reorganize Structure Utility (see page 44)
Subject Relator Utility (see page 44)
- Establishing and Deleting Subject Relationships (see page 45)
Document Configuration Utility (see page 45)
Printer Configuration Utility (see page 46)
Printer Configuration List (see page 47)
Printer Information (see page 48)
Printer Device JCL (see page 48)
OCL Commands List (see page 49)
Add Print Control Directive (see page 50)
OCL Printer Information (see page 50)
Print Request (see page 51)
Change Structure Statistics (see page 52)
Update Assignment (see page 53)

Refer to the online documentation for detailed information on the Utilities Menu screen.

STANDARDS, PROCEDURES, AND GUIDELINES
OPTION ===> Release nn.nn Utilities
CA IDMS/SASO Rnn.nn Utilities Menu -----------------------------

STRUCTURE UTILITIES:
0 Security - Assign Chapter Level CA IDMS Security
1 Rename/Delete - Rename or Delete Chapters, Subjects, Topics and Topic Keywords
2 Add/Insert - Specify new Chapter, Subject, or Topic and Topic Keyword Reference Identifiers and Names
3 Reorganize - Move Chapters, Subjects, or Topics
4 Subject Relator - Specify or Unspecify Related Subjects

PRINT UTILITIES:
5 Document Config - Set Document Configurations for Print
6 Printer Config - Set Printer Configurations
7 Print - Print entire manual or selected Structures/Indices

CHANGE UTILITY:
8 Statistics - Change Chapter, Subject, or Topic Dates Created, Dates Revised, and User Identifiers

Exhibit 3.16: Utilities Menu Screen

SectionSecurity

The SectionSecurity utility gives you the ability to assign CA IDMS/DC security resource activity numbers to sections of any CA IDMS SASO document.

The SectionSecurity screen is displayed when option 0 is entered at the Utilities Menu. To access a Chapter, Subject, or Topic List, see Browse Option (https://docops.ca.com/display/IDMS19/Browse+Option).

Once at the SectionList for this utility, you can modify activity numbers by entering an M at the section to be modified, type the new activity number(s), and press the ENTER key.
When section security has been implemented, anyone requesting to browse or update that section must have execution privileges for that section.

**Note:** Only TASK and DOCUMENT UPDATE security apply to this utility. For more information on task and document security, see CA ADS Alive Operations (https://docops.ca.com/display/IDMS19/CA+ADS+Alive+Operations).

Refer to the online documentation for more information on SectionSecurity.

**Exhibit 3.17: SectionSecurity Screen**

**SectionSecurity SectionList**

The SectionSecurity SectionList screen is used to assign or modify activity numbers.

Refer to the online documentation for more information on the SectionSecurity SectionList screen.

<table>
<thead>
<tr>
<th>ID</th>
<th>CHAPTER NAME</th>
<th>UPDATE/BROWSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Appendices</td>
<td>000 000</td>
</tr>
<tr>
<td>G</td>
<td>Glossary</td>
<td>000 000</td>
</tr>
<tr>
<td>1</td>
<td>Introduction</td>
<td>000 000</td>
</tr>
<tr>
<td>2</td>
<td>Standards For Systems Development</td>
<td>000 000</td>
</tr>
<tr>
<td>3</td>
<td>Procedures for Systems Development</td>
<td>000 000</td>
</tr>
<tr>
<td>4</td>
<td>Guidelines for Systems Development</td>
<td>000 000</td>
</tr>
<tr>
<td>5</td>
<td>Standards For Database Administration</td>
<td>000 000</td>
</tr>
<tr>
<td>6</td>
<td>Procedures For Database Administration</td>
<td>000 000</td>
</tr>
<tr>
<td>7</td>
<td>Guidelines For Database Administration</td>
<td>000 000</td>
</tr>
<tr>
<td><strong>END</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Rename/Delete Structure Utility

The Rename/Delete Structure utility enables you to rename or delete sections, subjects, or topics and their associated keywords.

The Rename/Delete Structure screen is displayed by entering option 1 at the Utilities Menu.

Chapter, subject, and topic lists are accessed in the manner described in the Browse Option. Once at the selected list, you enter a line command (R for rename or D for delete) in the selection column to the left of the item on the list.

```
COMMAND ===> mm/dd/yy hh:mm
CA IDMS/SASO Rnn.nn--- Rename/Delete Structure ---------------------------

STRUCTURE REFERENCE ID:
CHAPTER ===> (Blank for Chapter List)
SUBJECT ===> (Blank for Chapter/Subjects)
```

* The following line commands may be specified in the structure lists:
  - S - Select structure for more detail or BROWSE Topic Text
  - X - Display Related Subjects List for a selected Subject/Topic
  - D - Delete a Chapter, Subject, or Topic
  - R - Rename a Chapter, Subject, or Topic and Topic Keyword

Confirm Delete

When you delete a structure, the Confirm Delete screen appears enabling you to confirm or cancel the deletion. This screen serves two purposes:

- To indicate which levels of the structure will be deleted
- To guard against mistakes by giving you a chance to confirm or cancel the deletion.

Once a structure has been deleted, the IDs of any following numeric structures are compressed and renumbered.

When a structure is successfully renamed or deleted, an *R or *D appears to the right of the name of the structure. When a structure is deleted, no further utility functions can be requested for that structure.
Add/Insert Structure Utility

The Add/Insert Structure utility allows you to add or insert new section, subject, and topic reference identifiers (IDs) and names. The specification of an ID is required, but the specification of a name or keyword is not.

Text cannot be added with this utility. You are establishing the structure to which text can later be added under the Edit Option or using batch utility functions.

If the specified section, subject, or topic level exists, a duplicate is inserted (added) and the existing structure and all following numeric structures are renumbered.

For more information on internal structure renumbering, see CA ADS Alive Operations (https://docops.ca.com/display/IDMS19/CA+ADS+Alive+Operations).

The Add/Insert Structure screen is displayed by entering option 2 at the Utilities Menu.

Exhibit 3.21: Add/Insert Structure Screen
Reorganize Structure Utility

The Reorganize Structure utility allows you to move a section, subject, or topic from one location in a CA IDMS SASO document to another.

Whenever a move takes place, an automatic renumbering of the effected numeric structures takes place. For more information on structure renumbering, see CA ADS Alive Operations (https://docops.ca.com/display/IDMS19/CA+ADS+Alive+Operations).

The Reorganize Structure screen is displayed by entering option 3 at the Utilities Menu.

The object of the move (the section, subject, or topic to be moved) is specified in the first set of reference identifiers on the screen. The destination of the move (where the object is to be moved) is specified in the second set of reference identifiers on the screen.

You must determine where to relocate a structure in a document using the relative position option. The BEFORE option places the object structure immediately before a specified structure. The AFTER option places the object structure immediately after a specified structure.

Relocation structure references must parallel the object structure references. For example, if a section ID is entered in the object field, then only a section ID can be entered in the relocation field. If section, subject, and topic IDs are entered, then section, subject, and topic IDs must be entered in relocation fields.

STANDARDS, PROCEDURES, AND GUIDELINES

Specify the "STRUCTURE REFERENCE ID" to be moved:

STRUCTURE REFERENCE ID:
CHAPTER ===> SUBJECT ===> TOPIC ===>  

Specify the "STRUCTURE REFERENCE ID" for relocation:

STRUCTURE REFERENCE ID:
CHAPTER ===> SUBJECT ===> TOPIC ===>  

Specify "RELATIVE POSITION" in the structure for placement:
RELATIVE POSITION ===> (B-Before, or A-After)

Exhibit 3.22: Reorganize Structure Utility Screen

Subject Relator Utility

The Subject Relator utility enables you to relate one subject to another. This utility also lets you delete the relationship between subjects.

The Subject Relator screen is displayed by entering option 4 at the Utilities Menu.

The first set of section ID and subject ID fields are used to access a section, subject, or topic list only. You cannot establish or delete a subject relationship from these fields.
The second set of section ID and subject ID fields are used when establishing a subject relationship. Relating a subject is accomplished by specifying the line command R in a lower level subject list. These fields appear in the upper right corner of a subject list display (if specified).

Refer to the online documentation for detailed information on the Subject Relator Utility screen.

**STANDARDS, PROCEDURES, AND GUIDELINES**

**CA, Inc**

**Release nn.nn**

**Utilities**

**COMMAND ===>**

**mm/dd/yy hh:mm**

**CA IDMS/SASO Rnn.nn--- Subject Relator ----------------------------------------**

**STRUCTURE REFERENCE ID:**

**CHAPTER ===>** (Blank for Chapter List)

**SUBJECT ===>** (Blank for Chapter/Subjects)

The following "SUBJECT RELATOR" reference is required for (R)elate functions.

**SUBJECT RELATOR STRUCTURE REFERENCE ID:**

**CHAPTER ===>**

**SUBJECT ===>**

* The following line commands may be specified in the structure lists:

- S - Select structure for more detail or BROWSE Topic Text
- X - Display Related Subjects List for a selected Subject/Topic
- D - Delete a Subject from a Related Subjects List
- R - Relate a Subject to "SUBJECT RELATOR" specified above

**Exhibit 3.23: Subject Relator Utility Screen**

### Establishing and Deleting Subject Relationships

**To establish a subject relationship**, specify the section and subject of "subject relator structure reference ID fields". Access the Subject List screen from the first set of section and subject "structure reference ID fields", or by selecting a section at the SectionList screen. Once a subject list has been accessed, type an R next to the item to be related and press the ENTER key. Once the ENTER key is pressed, the subject entered from the Subject Relator screen is related to the subject on the Subject List.

Once a relationship is established between subjects, the subject relationship can be displayed in the Related Subjects List screen.

**To delete a subject relationship**, access the Related Subjects List screen (again, from the first set of section and subject "structure reference ID fields"), type a D at the line for deletion, and press the ENTER key. Once the ENTER key is pressed, the subject relationship is deleted.

### Document Configuration Utility

The Document Configuration utility enables you to:

- Define the titles to be printed in a document and in the screen headings
- Define copyright date(s) to be printed in the hardcopy version of a document
- Specify section, subject, and topic highlighting and underlining options for the printed document
• Determine topic line spacing.

Information about the Document Configuration is displayed in the bottom portion of the screen. The date the Configuration was added to a document and the date/time stamp of the last change are shown.

The Document Configuration Utility screen is displayed by entering option 5 at the Utilities Menu.

Refer to the online documentation for detailed information on the Document Configuration Utility screen.

**Exhibit 3.24: Document Configuration Screen**

---

### Printer Configuration Utility

The Printer Configuration utility enables you to add, delete, or modify a logical device. You can also implement printer-specific print macros/verbs that are defined by the user and imbedded in topic text so that you can implement print functions unique to your environment.

The Printer Configuration screen is displayed by entering option 6 at the Utilities Menu.

Screens access for the Printer Configuration utility is shown in Exhibit 3.26.

Refer to the online documentation for detailed information on the Printer Configuration Utility screen.

**Exhibit 3.26: Printer Configuration Utility Screen**
I - Display Information about a Printer Device
BLANK - Display/Maintenance Directives in a Printer Device List

PRINTER DEVICE:
DEVICE ====> IMPACT
DESCRIPTION ====> Impact Printer Prototype
LINES PER PAGE ====> 66

* The following line commands may be specified in the OCL/Printer Device List:
M - Modify Printer Devices or OCL Commands
D - Delete Printer Devices or OCL Commands
J - Select a Printer Device for JCL review or maintenance
O - Select a Printer Device for OCL review or maintenance
I - Display Information about a Printer Device or OCL

Exhibit 3.25: Printer Configuration Utility Screen

<table>
<thead>
<tr>
<th>Edit Screen</th>
<th>Invoked by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Primary SASO Menu Screen</td>
<td>Following the signon procedure.</td>
</tr>
<tr>
<td>2. Utilities Menu Screen</td>
<td>Typing option 3 at screen 1.</td>
</tr>
<tr>
<td>3. Printer Configuration Screen</td>
<td>Typing option 6 at screen 2.</td>
</tr>
<tr>
<td>4. Printer Configuration List Screen</td>
<td>Pressing the ENTER key at screen 3.</td>
</tr>
<tr>
<td>5. Printer Information Screen</td>
<td>Entering option I and a device at screen 3; selecting a device with an I at screen 4.</td>
</tr>
<tr>
<td>6. Printer Device JCL Screen</td>
<td>Entering option J and a device at screen 3; selecting a device with a J at screen 4.</td>
</tr>
<tr>
<td>7. OCL Commands List Screen</td>
<td>Entering option O and a device at screen 3; selecting a device with an O at screen 4.</td>
</tr>
<tr>
<td>9. OCL Printer Information Screen</td>
<td>Entering option I next to a printer verb at screen 7.</td>
</tr>
</tbody>
</table>

Exhibit 3.26: Printer Configuration Screen Access

Printer Configuration List

The Printer Configuration List screen displays a list of printers and the number of lines to be printed on a page for the printer device. From this list, you can modify or delete a printer, display the JCL for a specific printer, display the hexadecimal initialization and control characters (OCL) for a printer, or display information on a printer.

The Printer Configuration List screen is displayed by pressing the ENTER key, without an accompanying entry, at the Printer Configuration screen.

Refer to the online documentation for detailed information on the Printer Configuration List screen.
Printer Information

The Printer Information screen displays information on a printer device. Information includes the date created, the date and time of the last modification, and the user ID responsible for the last modification.

You can display the Printer Information screen by entering option I together with a printer device name at the Printer Configuration screen. You can also access this screen by entering line command I next to a printer device at the Printer Configuration List screen.

For more information on change update tracking, see CA ADS Alive Operations (https://docops.ca.com/display/IDMS19/CA+ADS+Alive+Operations).

Refer to the online documentation for detailed information on the Printer Information screen.

Printer Device JCL

The Printer Device JCL utility enables you to display and edit the JCL of the selected device. Editing commands can be used to tailor the JCL to conform with your operating system and job accounting requirements.

The Printer Device JCL Utility screen is displayed by specifying the J option and a device at the Printer Configuration screen. It can also be displayed by selecting a device with line command J from the Printer Configuration List screen.
Refer to the online documentation for detailed information on the Printer Device JCL Utility screen and the editing commands.

EDIT --- 6670    OSJCL
COMMAND ===> SCROLL ===> CSR

****** *** TOP OF DATA ************************************************************** CA IDMS/SASO ***

Exhibit 3.29: Printer Device JCL Utility Screen

OCL Commands List

The Optical Character Language (OCL) Commands List utility enables you to display and change hexadecimal setup commands and print control verbs (macros) defined for a printer device.

This utility allows you to define or alter the printer initialization and control characters for the specified device. You can also add new printer control verbs and their associated hexadecimal commands by entering option Y in the ADD NEW VERB field. CA IDMS SASO responds by displaying the Add Print Control Directive screen.

This utility also allows you to modify a verb’s hexadecimal control character set and description by entering line command M at the verb for modification and pressing ENTER. Printer macros defined by you can be deleted by entering the D line command at the line for deletion. Printer macros supplied by CA for the 6670 printer device cannot be deleted.

The Optical Character Language (OCL) Commands screen is displayed by entering option O and the corresponding printer device at the Printer Configuration screen. It can also be displayed by selecting a device with line command O at the Printer Configuration List screen.

Refer to the online documentation for detailed information on the OCL Commands screen.
Add Print Control Directive

The Add Print Control Directive utility gives you the ability to add a new print control verb and associated hexadecimal commands (print macros) to the set of OCL commands.

You can access the Add Print Control Directive screen by entering option Y in the ADD A NEW VERB field at the OCL Commands List screen.

Refer to the online documentation for detailed information on the Add Print Control Directive screen.

Exhibit 3.31: Add Print Control Directive Screen

OCL Printer Information

The OCL Printer Information screen provides information on a print control verb, its associated printer device, and printer initialization string.

You can display the OCL Printer Information screen by entering an I next to a printer verb at the OCL Commands screen.

Information displayed includes the date a printer device, printer initialization, and the print macro were created and last revised. The user ID of the user responsible for last changing any one of these three components is also displayed.

Refer to the online documentation for detailed information on the OCL Printer Information screen.

Exhibit 3.31: Add Print Control Directive Screen
Print Request

The Print Request screen is displayed by entering option 7 at the Utilities Menu.

The Print Request utility enables you to print an entire document and ranges of or specific sections, subjects, or topics. You can optionally direct print output to TAPE or DISK. This facility is important to those who need a current hardcopy version or those who are more comfortable with printed text.

Printer Characteristics (see page 93) provides more information on printer control and output. CA ADS Alive Operations (https://docops.ca.com/display/IDMS19/CA+ADS+Alive+Operations) also describes new security considerations for USER ID and PASSWORD in CA IDMS SASO security.

Refer to the online documentation for detailed information on the Print Request screen.

See Exhibit 3.34 for an example of the printed output.

Exhibit 3.33: Print Request Screen
SUBJECT: NAMING CONVENTIONS STANDARD

RELATED SUBJECTS:

STANDARD ELEMENT DESIGNATORS
STANDARD ABBREVIATIONS                      A.2
STANDARDS, PROCEDURES, AND GUIDELINES MANUAL  1.1
INTEGRATED DATA DICTIONARY USAGE STANDARD     2.2
COBOL PROGRAMMING STANDARD                   2.3
CA IDMS/DB PROGRAMMING STANDARD              2.4
CA IDMS/DC PROGRAMMING (COBOL) STANDARD      2.5
ADS/ONLINE PROGRAMMING STANDARD              2.6
JOB CONTROL LANGUAGE (JCL) OS/VS STANDARD     2.10
MULTIPLE DICTIONARY ENVIRONMENT STANDARD     2.11
DATABASE SYSTEM DEVELOPMENT PROCESS - OVERVIEW 3.12
PHYSICAL DATABASE DESIGN REVIEW PROCEDURE   3.14
INTEGRATED DATA DICTIONARY OVERVIEW GUIDELINE 4.14
CA-IDD AS AN ANALYSIS AND DEVELOPMENT TOOL GUIDELINE 4.7
PROTOTYPING AND ADS/ONLINE GUIDELINE         4.14
RECORD ATTRIBUTES STANDARD                   5.1
SET ATTRIBUTES STANDARD                      5.2
AREA ATTRIBUTES STANDARD                     5.3
SCHEMA ATTRIBUTES STANDARD                   5.4
DMCL ATTRIBUTES STANDARD                     5.5
SUBSCHEMA ATTRIBUTES STANDARD                5.6
BACHMAN DIAGRAM STANDARD                     5.11
CA-IDD CONTENT REVIEW PROCEDURE              6.5
ASF GUIDELINES FOR THE DBA                   7.14

SUBJECT 1 -- with multiple topics for testing 8.1

2. 1. 1 SCHEMA NAME--TEST RENAME

Seven alphanumeric characters formatted as follows:
SrPmnnn for Production global schemas.
SrPxnnn for Production application oriented schemas.
SrTmnnn for Test global schemas.
SrTxnnn for Test application oriented schemas.

Examples: SCP0002 is the Global Production schema.
SCTAR02 is the Accounts Receivable test schema.
SCTAR01 is the Accounts Receivable test schema.

Copyright CA, Inc. 2003 2. 1-1

Exhibit 3.34: CA IDMS SASO Printed Output Example

Change Structure Statistics

The Change Structure Statistics Utility screen is displayed by entering option 8 at the Utilities Menu.
The Change Structure Statistics utility enables you to change structure statistics once a section, subject, or topic list is displayed.

Chapter, subject or topic statistics which may be altered include date created, date last revised, and revised by user ID. Selecting a structure for change function is done by entering the line command C (C-Change) at the structure for utility function. For more information, see Update Assignment (see page 53).

Refer to the online documentation for detailed information on the Change Structure Statistics Utility screen.

**Update Assignment**

The Update Assignment screen is displayed by selecting a structure for change with a C line command at a Chapter, Subject, or Topic List screen.

Use the Update Assignment screen to change structure statistics and determine whether the change is to be made to all lower-level structures, if applicable.

Refer to the online documentation for detailed information on the Update Assignment screen.
Purpose of Maintenance Option

This section takes a closer look at the Maintenance Option. The Maintenance Option enables you to selectively create, review, and apply document enhancements. You can create document updates by using CA IDMS SASO batch or online utility functions. Enhancements created are loaded into the maintenance area of your database. Once a document update or a set of document updates is contained on your database, you can then review and optionally apply the enhancements you want to permanently incorporate into your document.

You can also migrate enhancements or a set of enhancements from one central version (CV) to another, or from one document to another document contained in the same CV. Off-loading and uploading maintenance is accomplished using batch utilities ESSMOFF and ESSMLOD.

This option also allows you to confirm or cancel requests to apply maintenance, and purge or delete maintenance from your database. A confirmation screen is displayed, permitting you to proceed with the request or cancel it.

The online Maintenance Option also provides statistical information on updates in the Release Maintenance List, the Chapter, Subject, and Topic Lists and in topic text displays. Informational displays include dates enhancements were created and uploaded into your database, dates and user IDs representing last activity within a maintenance release, and internal section, subject, and topic reference identifiers. Internal IDs are used to compare and match enhancements with structures contained in the document. For more information on internal IDs, see CA ADS Alive Operations (https://docops.ca.com/display/IDMS19/CA+ADS+Alive+Operations).

Maintenance Security

The only levels of security applicable to this option are TASK and DOCUMENT UPDATE. Therefore, if your company has implemented CA IDMS SASO task or document security, your CA IDMS/DC user ID used to sign on to the CV must have execution privileges for the following:

- Maintenance Option task resources contained in your catalog. For more information on CA IDMS SASO task security, see Operations (https://docops.ca.com/display/IDMS19/CA+ADS+Alive+Operations).
- DOCUMENT UPDATE activity.

Section update authority is implied with access into this function.

Creating Maintenance

Document updates that you have created, using option D.3 of Document Utilities, can be offloaded by running the batch job ESSMOFF. In addition, these updates can be reviewed and selectively applied using the online functions of the Maintenance Option.
Document enhancements can also be generated by running the batch job ESSRLSE. See Batch Utilities (https://docops.ca.com/display/IDMS19/Batch+Utilities) for explanations and examples of batch jobs.

- Off-loading Maintenance (see page 55)
- Uploading Maintenance (see page 55)
- Enhancement Structure (see page 56)

**Off-loading Maintenance**

The batch job, ESSMOFF, produces a printed report showing a summary of your enhancements (CA IDMS SASO Maintenance Release Summary Report). This report also includes a printed facsimile of Maintenance Release enhancement(s). Information (including examples) regarding this report can be found in Batch Utilities (https://docops.ca.com/display/IDMS19/Batch+Utilities).

Once the maintenance has been offloaded to a file, the enhancements can be loaded into the maintenance area by running the batch job ESSMLOD.

**Uploading Maintenance**

The batch job ESSMLOD checks the text of the enhancements against corresponding text on the database on a line-by-line basis. The results of this batch job are the Release Maintenance Discrepancies Report and the installed release maintenance.

The Release Maintenance Discrepancies Report lists any differences between the contents of the enhancement and corresponding text and structures (sections, subjects, topics) on your database. Chapter, subject, and topic internal IDs are used to locate and match enhancements to structures contained on the primary side of your document.

This report enables you to track and compare:

- Movement of structures (section, subjects, or topics)
- Deleted structures
- Existing structures
- Altered section, subject, and topic external reference IDs
- Altered section, subject, topic, and keyword names
- Your text with the corresponding enhancement text.

The Release Maintenance Discrepancies Report is an important element in the update process. This report should be reviewed thoroughly before continuing with the application of maintenance.
Enhancement Structure

Once the maintenance release has been loaded into the maintenance area of the database, the online functions of the Maintenance Option are used to review and selectively apply the enhancements.

An enhancement can be in the form of an entire section, a series of subjects, or an individual topic. The actual content of all enhancements is topic text.

Enhancements can be applied at the release level or at a section, subject, or topic level. Where the enhancement is applied depends upon its level. For example, you would not apply an entire section at the topic list, but at the section list. Individual topics are applied at the topic list.

SASO Sessions Screens

The Maintenance Option provides a series of screens where enhancements can be applied, deleted, or even modified. Accessing these screens is similar to the Browse Option. See Exhibit 3.37.

An initial entry screen lists all enhancements that can be applied to a document. At this screen, an enhancement can be applied, selected for review, deleted, or permanently removed from the database using the PURGE command. If selected, you can move down the chain of Chapter, Subject, and Topic List screens and apply the enhancement at the desired structure level.

- Release Maintenance List (see page 57)
  - Release SectionList (see page 57)
  - Release Maintenance Subject List (see page 58)
  - Release Maintenance Topic List (see page 59)
  - Release Maintenance Related Subjects List (see page 60)
- Release Maintenance Topic Text (see page 60)
- Release Maintenance Update Assignment (see page 61)
- Release Maintenance Confirm Apply (see page 62)
- Release Maintenance Confirm Delete (see page 63)
- Release Maintenance Confirm Purge (see page 63)
- Online Review and Application (see page 64)

The last screen in the chain is a Topic Text screen. Here you can modify the text of the enhancement, with editing commands, before applying it.

<table>
<thead>
<tr>
<th>Browse Screen</th>
<th>Invoked by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Primary SASO Menu Screen</td>
<td>Following the signon procedure.</td>
</tr>
<tr>
<td>2. Release Maintenance List Screen</td>
<td>Selecting option 4 at screen 1.</td>
</tr>
<tr>
<td>3. SectionList Screen</td>
<td>Selecting a release with an S from screen 2.</td>
</tr>
</tbody>
</table>
Release Maintenance List

The Release Maintenance List provides information on enhancements. It displays the release ID, the date each enhancement was created, the dates and USERID of last activity in the enhancement, and the status of the enhancement.

This screen is invoked by entering the Maintenance Option 4 from the CA IDMS SASO Primary Menu screen.

Refer to the online documentation for detailed information on the Release Maintenance screen.

Exhibit 3.37: Maintenance Option Screen Access

<table>
<thead>
<tr>
<th>Browse Screen</th>
<th>Invoked by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Subject List Screen</td>
<td>Selecting a section with an S from screen 3.</td>
</tr>
<tr>
<td>6. Related Subjects List Screen</td>
<td>Typing the RELATORS command from screen 5; selecting a subject with an X from screen 4.</td>
</tr>
<tr>
<td>7. Topic Text Screen</td>
<td>Selecting a topic with an S from screen 5.</td>
</tr>
</tbody>
</table>

Release SectionList

The Release SectionList screen provides a list of sections contained in the maintenance release. This screen is invoked by selecting a release from the Release Maintenance List screen using the S line command.

Discrepancies detected between the primary side of the document and release maintenance sections are also displayed on this screen. Sections contained in the documents primary side are displayed when a variance is detected. When the maintenance section does not have an equivalent in the primary side, the NO EQUIVALENT is displayed below that section enhancement. Variant sections are created when the external reference ID has been altered using utility functions or the name of the section has been changed.

Enhancement sections that have NO EQUIVALENT in the primary side of the document are created when the section has been deleted from the document. The section internal ID is used to find a match with section internal IDs contained in the primary side of the database.

The REFRESH command redisplay the section list without function process codes.

Exhibit 3.38: Release Maintenance List Screen
Internal IDs and other important information on enhancement sections and variant sections can be displayed by entering the STATS ON|OFF command at the command line of this display. Information displayed includes creation dates, revision date time stamps, user IDs responsible for revision, and internal IDs. Variant sections are displayed with information on previous enhancements applied.

When NO EQUIVALENT is displayed, internal IDs can be reviewed in both sides of the database to resolve the discrepancy by entering the STATS command at any section list.

For more information on internal IDs, see CA ADS Alive Operations (https://docops.ca.com/display/IDMS19/CA+ADS+Alive+Operations).

STANDARDS, PROCEDURES, AND GUIDELINES
CA, Inc

COMMAND ===> Release nn.nn
CA IDMS/SASO Rnn.nn--- Release Chapter List

<table>
<thead>
<tr>
<th>ID</th>
<th>CHAPTER NAME</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Standards For Systems Development</td>
<td>R</td>
</tr>
</tbody>
</table>

**END**

Exhibit 3.39: Release SectionList Screen (Maintenance)

Release Maintenance Subject List

The Subject List screen provides a list of subjects within a section of the enhancement that resides on the maintenance side of the database. This screen is invoked by selecting a section with an S at the Release SectionList screen.

Discrepancies detected between the primary side of the document and release maintenance side are also displayed on this screen. Subjects contained in the document's primary side are displayed when a variance is detected. When the maintenance subject does not have an equivalent in the primary side, the NO EQUIVALENT is displayed below that subject enhancement. Variant subjects are created when the external reference ID has been altered using utility functions or the name of the subject has been changed.

Enhancement subjects that have NO EQUIVALENT in the primary side of the document are created when the subject has been deleted from the document. The section and subject internal IDs are used to find a match with section and subject internal IDs contained in the primary side of the database.

The REFRESH command redisplays the subject list without function process codes.

Internal IDs and other important information on enhancement subjects and variant subjects can be displayed by entering the STATS ON|OFF command at the command line of this display. Information displayed includes creation dates, revision date time stamps, user IDs responsible for revisions, and internal IDs. Variant subjects are displayed with information on previous enhancements applied.

When NO EQUIVALENT is displayed, internal IDs can be reviewed in both sides of the database to resolve the discrepancy by entering the STATS command at any subject list.

<table>
<thead>
<tr>
<th>ID</th>
<th>SUBJECT NAME</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Naming Conventions Standard</td>
<td>R</td>
</tr>
</tbody>
</table>
Release Maintenance Topic List

The Topic List screen provides a list of topics within a subject in the enhancement that resides on the maintenance side of the database. This screen is invoked by selecting a subject with an S at the Release Maintenance Subject List screen.

Discrepancies detected between the primary side of the document and release maintenance side are also displayed on this screen. Topics contained in the document's primary side are displayed when a variance is detected. When the maintenance topic does not have an equivalent in the primary side, the NO EQUIVALENT is displayed below that topic enhancement. Variant topics are created when the external reference ID has been altered using utility functions or the name of the topic has been changed.

Enhancement topics that have NO EQUIVALENT in the primary side of the document are created when the topic has been deleted from the document. The section, subject, and topic internal IDs are used to find a match with section, subject, and topic internal IDs contained in the primary side of the database.

The REFRESH command redisplays the topic list without function process codes.

Internal IDs and other important information on enhancement topics and variant topics can be displayed by entering the STATS ON/OFF command at the command line of this display. Information displayed includes creation dates, revision date time stamps, user IDs responsible for revisions, and internal IDs. Variant topics are displayed with information on previous enhancements applied.

When NO EQUIVALENT is displayed, internal IDs can be reviewed in both sides of the database to resolve the discrepancy by entering the STATS command at any topic list.

For more information on internal IDs, see CA ADS Alive Operations (https://docops.ca.com/display/IDMS19/CA+ADS+Alive+Operations).
Release Maintenance Related Subjects List

The Related Subjects List screen displays subject relationships between the enhancement subject and the primary side of the source document from which the enhancement was created.

This screen appears after entering the RELATORS command at the Maintenance Topic List screen or after typing an X in the selection column of a subject list.

No additional information or functions are available from this display.

Exhibit 3.42: Related Subjects List Screen (Maintenance)

Release Maintenance Topic Text

The Topic Text screen displays the text of the selected topic from the Release Maintenance Topic List screen. From this screen, you can copy text from another topic residing on the primary or the release maintenance side of the document's database, or you can modify the text using text editing commands. Thus, the text of the selected topic enhancement can be modified before applying it to a document.
Any modifications to the text are retained in the maintenance area of the database until you choose to apply, delete, or purge the enhancement containing the modified topic text.

Information about the topic and topic text is displayed at this screen. You can remove information message lines by entering the RESET or STATS OFF commands. This information can be redisplayed by entering the STATS ON command.

Refer to the online documentation for detailed information on the Topic Text screen and Edit or Browse commands.

EDIT ---2.1.0 COMMAND ==> SCROLL ==> CSR
****** *** TOP OF DATA ******************************************** CA IDMS/SASO ***
000001 PURPOSE: To establish standard naming formats for all database and
000002 conventional system components.
000003
000004 SCOPE: These naming conventions apply to all IDMS and
000005 conventional file based application development.
000006
000007 DOCUMENTATION
000008 REQUIREMENTS: All components listed in this standard must be entered
000009 into the IDD using the unique names formulated as
000010 explained herein. The minimum requirements for each of
000011 these components are Name, Description, and System
000012 Identifier(s). See the IDD Usage Standard for detailed
000013 documentation requirements. Hardcopy documentation is
000014 produced by running various IDD reports.
000015
000016 The only exceptions are DDnames, Path Status, ASF
000017 generated names, and outside vendor supplied utilities
000018 and application software packages.
000019 :E
000020 OVERVIEW:
000021

Exhibit 3.43: Topic Text Screen (Maintenance)

Release Maintenance Update Assignment

The Update Assignment screen enables you to specify a target structure for the issued enhancement or to cancel the apply request.

This screen appears when you select to apply an enhancement to a structure that cannot be located in the primary database. In such a case, the enhancement has no equivalent structure in a document.

When a structure cannot be located for the apply function, this screen provides you with two options to contain the application:

- One option allows you to specify an existing structure in the primary database to which you want to assign the enhancement
- The second option allows you to add the missing structure (section and subject for topic, section for subject, and section for update assignment).

Refer to the online documentation for detailed information on the Update Assignment screen.
The following maintenance has NO EQUIVALENT in the STANDARDS:

2.1.0 Subject Overview

INSTRUCTIONS:
Enter "END" to CANCEL APPLY request.

Enter assignment "REFERENCE ID" below and press "ENTER" key.

NOTE: To ADD the NON-EQUIVALENT entity, press "ENTER" without changing the structure reference(s).

STRUCTURE REFERENCE ID:
CHAPTER ===> 2
SUBJECT ===> 1
TOPIC ===> 0

Exhibit 3.44: Update Assignment Screen (Maintenance)

Release Maintenance Confirm Apply

Whenever you choose to apply an enhancement, CA IDMS SASO responds by displaying the Confirm Apply screen. This screen serves two purposes:

- To warn you existing structures are either replaced or deleted by the enhancement
- To guard against mistakes by giving you a chance to either proceed with or cancel the application.

Once you proceed with the application, all existing text within the selected structure is overlaid with the new enhancement.

If the maintenance involves the deletion of a structure from a document, the Confirm Delete screen is also displayed. This display insures that nothing is removed from the document without confirmation.

Exhibit 3.45: Confirm Apply Screen (Maintenance)
Release Maintenance Confirm Delete

Whenever you choose to logically delete an enhancement by entering option D next to a maintenance structure, CA IDMS SASO displays the Confirm Delete screen. This screen serves two purposes:

- To warn you the maintenance is logically deleted from the Maintenance List
- To guard against mistakes by giving you a chance to either proceed with or cancel the delete.

Exhibit 3.46: Confirm Delete Screen (Maintenance)

Release Maintenance Confirm Purge

Whenever you choose to purge an enhancement by entering the PURGE release-id|ALL command, CA IDMS SASO displays the Confirm Purge screen. This screen serves two purposes:

- To warn you the maintenance is physically and permanently purged from the Maintenance List and the CA IDMS SASO database
- To guard against mistakes by giving you a chance to either proceed with or cancel the purge.

Refer to the online documentation for detailed information on the Confirm Purge screen and the PURGE command.
Online Review and Application

Once the maintenance release has been loaded into the maintenance area of the database, the online functions of the Maintenance Option are used to review and selectively apply the enhancements. See Exhibit 3.48 for a conceptual view of this process.

There are several ways to apply enhancements using the online functions:

- **Apply the enhancement exactly as is.** When an enhancement is applied, the current sections are overlaid on the primary side of the database for REPLACE types. For INSERT types, the enhancement is inserted into the current sections of the permanent document and existing external ID is altered to maintain the contiguous numbering scheme.

- **Alter the textual contents of a maintenance topic with the editing commands and then apply them.**

- **Make alterations, to the text on the primary side of the database, based upon the Discrepancies Report and then delete or purge the maintenance.** This process is referred to as a "logical application" because the text in the maintenance area does not overlay the text in the primary area.

- **Copy text into the primary side, from the maintenance area, using the COPY editing command, then delete or purge the maintenance (logical application).**

- **Delete the enhancements and do not apply them.**

- **Permanently remove the enhancement from the maintenance side of the database using the PURGE command.**

See Exhibit 3.49 for a conceptual flowchart of the online enhancement process.
IDMSDB--Online Review and Application

Exhibit 3.48: Database Load and Application Process
Exhibit 3.49: Online Enhancement Application Process
About Document Utilities

This section takes a closer look at the Document Utilities Option. The Document Utilities Option allows you to add and maintain documents on the CA IDMS SASO document control structure and perform utility functions on any CA IDMS SASO document. Some examples might include personnel or departmental sectionlines.

Before you can perform the utility operations described in this section, you must add a database to CA IDMS SASO that houses the document. For more information on how to perform this task, see Adding Multiple CA IDMS SASO Documents (http://wiki-dev.ca.com/display/IDMS/Adding+Multiple+CA+IDMS+SASO+Documents).

After the CA IDMS SASO database has been defined, you can use the utilities described in this section to add and maintain a document.

CA IDMS SASO Security Option

If task security has been implemented at your company, your CA IDMS/DC user ID used at signon must have access privilege to Document Utility task resources contained in your catalog. For more information on assigning security to individual CA IDMS SASO tasks, see Operations (https://docops.ca.com/display/IDMS19/Operations).

After establishing your CA IDMS SASO database and adding a document to CA IDMS SASO, you can add security to the document using the Document Security utility described in this section. Once document security is established, you also need section authorization to utilize the Encyclopedia Function described in this section.

Document Utilities Provided

CA IDMS SASO provides the following types of Document Utilities:

1. **Definition Utilities**
   - Allow you to define, rename, delete, or assign security to documents

2. **Document Maintenance Utilities**
   - Allow you to create document updates by comparing documents or copying structures within a document

3. **Copy Functions**
   - Allow you to copy document and printer configurations

4. **Encyclopedia Function**
Document Utilities

Contents

- Document Security Document List (see page 68)
- Rename/Delete Document Utility (see page 69)
- Confirm Document Delete (see page 70)
- Add Document Utility (see page 70)
- Create Document Updates Utility (see page 71)
  - Generating Maintenance by Comparing Documents (see page 72)
  - Generating Maintenance by Copying Structures Within a Document (see page 75)
- Add/Copy Document Configuration Utility (see page 75)
- Add/Copy Printer Configuration Utility (see page 76)
- String Search Facility (see page 76)

The Document Utilities screen is invoked by entering option D from the CA IDMS SASO Primary Menu.

Refer to the online documentation for detailed information on the Document Utilities screen.

STANDARDS, PROCEDURES, AND GUIDELINES

CA IDMS - 19.0

- Allows you to search documents for a string of alphanumeric characters.

Document Security Document List

The Document Security utility enables you to assign a CA IDMS/DC security resource activity numbers to any CA IDMS SASO document.

You can access this utility by entering option 0 from the Document Utilities Menu.

Once at this Document List, you can modify activity numbers by entering an M at the document to be modified, enter an activity number for update, browse or both, and press the ENTER key.
When document security has been implemented, any user requesting to browse or update that document must have access privilege for the Browse or Update activity resource contained in your system catalog.

Note: Only TASK security applies to this utility. For more information on task security, see Operations (https://docops.ca.com/display/IDMS19/Operations).

Refer to the online documentation for detailed information on the Document Security screen.

Exhibit 3.51: Document Security Document List Screen

Rename/Delete Document Utility

The Rename/Delete Document screen provides a complete list of all documents residing in the CA IDMS SASO document control structure. This utility is displayed by entering option 1 at the Document Utilities Menu.

This function enables you to change or delete the name and description of a document. The only document that cannot be changed or deleted at this screen is the document currently being accessed and the default document that was established at product installation.

The rename and delete functions do not affect database structures. To rename a document, place an R next to the document to be renamed, enter the new name(s), and press the ENTER key. Document name changes must match a database name contained in your catalog.

To delete a document, place a D next to the document to be deleted and press ENTER. Once a document has been deleted, it cannot be reaccessed unless it is "readded" using the Add Document utility. Before a document is deleted, you must respond to the Confirm Delete screen. This screen enables you to confirm or cancel the deletion.

Refer to the online documentation for detailed information on the Rename/Delete Document screen.
Confirm Document Delete

Whenever you choose to delete a document by entering option D at the Rename/Delete Document screen, CA IDMS SASO responds by displaying the Confirm Document Delete screen. This screen serves two purposes:

- To warn you the document is logically be deleted from the CA IDMS SASO document control structure.
- To guard against mistakes by giving you a chance to either proceed with or cancel the delete.

```
STANDARDS, PROCEDURES, AND GUIDELINES
CA, Inc

COMMAND ===> Release nn.nn

CA IDMS/SASO Rnn.nn--- Confirm Document Delete mm/dd/yy hh:mm

****************************************************************************
** WARNING: The Document definition associated with the following Document description will be erased from the SASO system.**
** DOCUMENT: SASODN02 Alternate Document (Undefined)**
** INSTRUCTIONS: Press "ENTER" key to confirm DELETE request. Enter "END" command to CANCEL DELETE request.**
****************************************************************************
```

Add Document Utility

The Add Document utility enables you to define a document to the CA IDMS SASO system by creating control information for the document. This control information includes the name and description of the document. The Add Document utility is displayed by entering option 2 at the Document Utilities Menu.

The Add Document utility does not establish the physical or logical components of a database. These components must be established before you use the Document Add utility. Read Adding Multiple CA IDMS SASO Documents (see page 15) for details.
After these components have been established for a document, the Add Document utility can be used to create control information for a document. When control information has been created, you can incorporate a structure (sections, subjects, topics) by one of the following methods:

- Executing the batch utility, ESSULOD, which uploads a downloaded structure into the document's database
- Utilizing the Utilities and Edit Options to establish section, subject, and topic structures and create text for topics
- Adding section, subject, and topic structures and uploading topic text using the batch utility ESSTEXT
- Applying document updates created using the batch utility ESSRLSE, or using the Create Document Updates utility (D. 3).

Refer to the online documentation for detailed information on the Add Document screen.

Create Document Updates Utility

With the Create Document Updates utility, you can create a set of document updates (release maintenance) for an entire document, section, subject or topic (and topic text).

This utility is used when you have updated a document using existing online facilities and want to apply these changes to another document.

**Note:** If this utility is performed at the document level, a high activity level on the journal files may occur. Therefore, we strongly recommend that this utility never be run at the document level, and consideration given to using this utility at the section, subject, and/or topic level only. The batch utility version for this function is described under the Create Release Maintenance section in Batch Utilities (https://docops.ca.com/display/IDMS19/Batch+Utilities).

You can access the Create Document Updates utility by entering option 3 at the Document Utilities Menu.
There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.

There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.

There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.

There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.

There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.

There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.

There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.

There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.

There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.

There are two document update options:

- Generate maintenance by comparing documents
- Generate maintenance by copying a structure within a document.
**Exhibit 3.56: Creating Document Updates by Comparing Documents**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Document Level Maintenance</td>
<td>Chapter 1</td>
<td>Chapter 1 (R)eplace</td>
</tr>
<tr>
<td>Document Level Maintenance</td>
<td>Chapter 2</td>
<td>Chapter 2 (R)eplace</td>
</tr>
</tbody>
</table>

**KEY:**
- Solid lines represent a "FROM" document of B and a "TO" document of A.
- Dashed line represents a "FROM" document of B and a "TO" document of B.

STEP 1: Edit document on primary database B with existing SASO online

STEP 2: Create set of maintenance updates on database A (maintenance side of the with Create Document Updates Utility.

STEP 3: Apply updates to primary database A with facilities of Maintenance Option.
### Exhibit 3.57: Generating Insert and Replace Maintenance

<table>
<thead>
<tr>
<th>Source Document</th>
<th>Object Document</th>
<th>Object Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;from&quot; Document</td>
<td>&quot;to&quot; Document</td>
<td>Release Maintenance</td>
</tr>
<tr>
<td>Document Level</td>
<td>Chapter 1</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Chapter 1</td>
<td>Chapter 1 (R)Replace</td>
</tr>
<tr>
<td>Creation</td>
<td>Chapter 2</td>
<td>Chapter 2 (R)Replace</td>
</tr>
<tr>
<td>Subject Level</td>
<td>Chapter 3</td>
<td>Chapter 3 (R)Replace</td>
</tr>
<tr>
<td>R</td>
<td>Chapter 3</td>
<td>Chapter 4 (D)Delete</td>
</tr>
<tr>
<td>R</td>
<td>Chapter 1</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>R</td>
<td>Subject 1.1</td>
<td>Subject 1.1</td>
</tr>
<tr>
<td>R</td>
<td>Subject 1.2</td>
<td>Subject 1.2</td>
</tr>
<tr>
<td>R</td>
<td>Subject 1.3</td>
<td>Subject 1.3</td>
</tr>
<tr>
<td>Subject Level</td>
<td>Chapter 1</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>R</td>
<td>Subject 1.1</td>
<td>Subject 1.1</td>
</tr>
<tr>
<td>Creation</td>
<td>Topic 1.1.0</td>
<td>Topic 1.1.0</td>
</tr>
<tr>
<td>R</td>
<td>Topic 1.1.1</td>
<td>Topic 1.1.1</td>
</tr>
<tr>
<td>R</td>
<td>Subject 1.2</td>
<td>Subject 1.2</td>
</tr>
<tr>
<td>R</td>
<td>Topic 1.2.0</td>
<td>Topic 1.2.0</td>
</tr>
<tr>
<td>R</td>
<td>Topic 1.2.1</td>
<td>Topic 1.2.1</td>
</tr>
<tr>
<td>R</td>
<td>Topic 1.2.2</td>
<td>Topic 1.2.2</td>
</tr>
<tr>
<td>I</td>
<td>Topic 1.2.3</td>
<td>Topic 1.2.3</td>
</tr>
<tr>
<td>I</td>
<td>Topic 1.2.4</td>
<td>Topic 1.2.4</td>
</tr>
<tr>
<td>Topic Level</td>
<td>Chapter 1</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>R</td>
<td>Subject 1.1</td>
<td>Subject 1.1</td>
</tr>
<tr>
<td>Creation</td>
<td>Topic 1.1.0</td>
<td>Topic 1.1.0</td>
</tr>
<tr>
<td>R</td>
<td>Text Rec-1</td>
<td>Text Rec-1</td>
</tr>
<tr>
<td>R</td>
<td>Text Rec-2</td>
<td>Text Rec-2</td>
</tr>
<tr>
<td>I</td>
<td>Text Rec-3</td>
<td>Text Rec-3</td>
</tr>
<tr>
<td>I</td>
<td>Text Rec-4</td>
<td>Text Rec-4</td>
</tr>
</tbody>
</table>
### Exhibit 3.58: Generating Delete and Replace Maintenance

#### Generating Maintenance by Copying Structures Within a Document

This option allows you to create maintenance **without** comparing two documents.

You can copy a section, subject, or topic from the primary side of a document into that document's release maintenance area.

This enables you to isolate document changes for download to a transportable file. You can then upload the maintenance and apply it in other CA IDMS/DC central version (CV) documents.

Refer to the online documentation for more information on using the Create Document Updates screen.

#### Add/Copy Document Configuration Utility

The Add/Copy Document utility enables you to copy the configurations specified for one document to another. Document configurations allow you to determine how a document looks when it is printed. See **Document Configuration Utility (see page 45)** for a complete description.

Once the configurations for a document have been determined, you can use the Add/Copy Document Configurations utility to establish or replace these configurations in another document.
You can access the Add/Copy Document Configuration utility by entering option 4 from the Document Utilities screen.

Refer to the online documentation for detailed information on the Add/Copy Document Configuration screen.

Add/Copy Printer Configuration Utility

The Add/Copy Printer Configuration utility allows you to assign, to a specific document, a printer and its associated JCL and/or OCL configurations. These printer configurations can initially be assigned to a printer using the Printer Configuration utility (3.6).

You can access the Add/Copy Printer Configuration utility by entering option 5 at the Document Utilities Menu.

Refer to the online documentation for detailed information on the Add/Copy Printer Configuration screen.

String Search Facility

The String Search facility gives you the ability to search any CA IDMS SASO document for a string of alphanumeric characters.
CA IDMS SASO responds by displaying a Topic List of all those topics containing the specified string. You can then select a topic to browse or edit.

You can access the String Search facility by entering option 6 at the Document Utilities Menu.

Refer to the online documentation for detailed information on the String Search Facility screen.

```
STANDARDS, PROCEDURES, AND GUIDELINES
CA, Inc

COMMAND ===> mm/dd/yy hh:mm

CA IDMS/SASO Rnn.nn--- String Search Facility -----------------------------

Searching Document SPG

001500 Text Records Searched -- 000000 Occurrences of String Located

ENTER SEARCH STRING:

ADS

Specify full or partial "DOCUMENT" name below:

DOCUMENT NAME ===> SPG (Blank for Document List)

Specify option for TEXT PROCESSING:

Browse or Edit? ===> B (B-Browse or E-Edit)

Exhibit 3.61: String Search Facility Screen

```

<table>
<thead>
<tr>
<th>ID</th>
<th>KEYWORD NAME</th>
<th>TOPIC NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.3.21</td>
<td>ADS/ONLINE</td>
<td>ADS/O APPLICATION FUNCTION WORK SHEET</td>
</tr>
<tr>
<td>G.A.0</td>
<td>A</td>
<td>GLOSSARY ENTRIES</td>
</tr>
<tr>
<td>G.F.0</td>
<td>F</td>
<td>GLOSSARY ENTRIES</td>
</tr>
<tr>
<td>G.P.0</td>
<td>P</td>
<td>GLOSSARY ENTRIES</td>
</tr>
<tr>
<td>G.R.0</td>
<td>R</td>
<td>GLOSSARY ENTRIES</td>
</tr>
<tr>
<td>G.U.0</td>
<td>U</td>
<td>GLOSSARY ENTRIES</td>
</tr>
<tr>
<td>2.6.0</td>
<td>OVERVIEW</td>
<td>SUBJECT OVERVIEW</td>
</tr>
<tr>
<td>2.11.3</td>
<td>IDD</td>
<td>TEST CV</td>
</tr>
<tr>
<td>2.13.0</td>
<td>OVERVIEW</td>
<td>SUBJECT OVERVIEW</td>
</tr>
<tr>
<td>3.7.0</td>
<td>APPLICATION</td>
<td>MIGRATION PROCEDURE</td>
</tr>
<tr>
<td>4.8.3</td>
<td>LRF</td>
<td>LRF TIPS AND HINTS</td>
</tr>
<tr>
<td>4.8.6</td>
<td>LRF</td>
<td>WHEN TO USE LRF</td>
</tr>
<tr>
<td>4.10.6</td>
<td>ADS</td>
<td>CA-ADS (APPLICATION DEVELOPMENT SYSTEM)</td>
</tr>
<tr>
<td>4.10.12</td>
<td>ICMS</td>
<td>INFORMATION CENTER MANAGEMENT SYSTEM</td>
</tr>
</tbody>
</table>

Exhibit 3.62: Topic List Screen (String Search)

Understand the Tutorial Option

This section briefly explains CA IDMS SASO online documentation. The online documentation provides information on the features of CA IDMS SASO.
CA IDMS SASO provides you with comprehensive online documentation. To access the online documentation, enter the HELP command or press the appropriate PF key from any CA IDMS SASO screen.

CA IDMS SASO online documentation includes information on:

- CA IDMS SASO screens
- CA IDMS SASO commands
- Edit and browse commands
- CA IDMS SASO Messages.

In addition, the Online Documentation Print Utility provided with CA IDMS SASO allows error messages and other online documentation to be printed upon request.

For more information on accessing and printing information on CA IDMS SASO, see Operations (http://wiki-dev.ca.com/display/IDMS/ADS+Alive+Operations).

Using CA IDMS SASO Online Documentation

To invoke the online documentation, enter option T at the OPTION field of the CA IDMS SASO Primary Menu.

After you have typed in the T option and pressed the ENTER key, an online documentation selection menu appears.

From this screen you can take one of the following actions:

- Exit the online documentation by pressing the PF3 key
- Proceed with using the online documentation by selecting a topic
- Enter the HELP command again to obtain information on using CA IDMS SASO’s online documentation.

You can also access the online documentation for any CA IDMS SASO screen by entering the HELP command at the screen. When the HELP command is used, information is displayed about the current screen.

EXIT

This section explains the Exit Option. Select this option when you want to leave CA IDMS SASO.
Purpose of Exit Option

Contents
- Signing off of CA IDMS SASO (see page 79)

Select the Exit Option (X) to sign off of CA IDMS SASO. When the Exit Option is selected, all CA IDMS SASO operations are terminated and you are brought back to the CA IDMS/DC system prompt.

Signing off of CA IDMS SASO

You can exit CA IDMS SASO from the CA IDMS SASO Primary Menu screen or from one of the lower level screens. To exit CA IDMS SASO from the CA IDMS SASO Primary Menu screen:

- Type an X, for the Exit Option, at the OPTION field and press the ENTER key.

To exit CA IDMS SASO from a lower level screen:

- Type =X, at the COMMAND field, from any lower level screen and press the ENTER key.

CA IDMS SASO Batch Utilities

This section explains each of CA IDMS SASO’s batch utilities. Descriptions of input parameters for job execution and sample JCL are included in the appropriate Target or Distribution source library (Z/OS), TOOLJCL library (Z/VSE), or MACLIB (Z/VM) members. Figures showing the resultant batch utility report outputs are also included.

CA IDMS SASO provides the following batch utilities:

- Download CA IDMS SASO Document Structure (ESSDLOD) (see page 80)
  - Report Output (see page 80)
- Upload CA IDMS SASO Document Structure (ESSULOD) (see page 80)
  - Report Output (see page 81)
- Create Release Maintenance (ESSRLSE) (see page 81)
  - Report Output (see page 84)
- Offload Release Maintenance (ESSMOFF) (see page 84)
  - Report Output (see page 85)
- Upload Release Maintenance (ESSMLOD) (see page 86)
  - Report Output (see page 86)
  - Long Report (ESSMLOD) (see page 87)
  - Change Report (ESSMLOD) (see page 87)
  - Summary Report (ESSMLOD) (see page 88)
- Upload Topic Text Structure (ESSTEXT) (see page 90)
  - Input File Examples (see page 91)
Download CA IDMS SASO Document Structure (ESSDLOD)

This utility downloads the installed CA IDMS SASO database structure to a transportable file. When you execute this utility, the primary side of the database, including all sections, subjects, topics, topic text, printer configurations, and document configurations, is downloaded into a transportable file.

Target or Distribution source library member ESSDLOD (z/OS), TOOLJCL library member ESSDLOD.S (Z/VSE), or the ESSDLOD EXEC (Z/VM) contains the model JCL and key for this utility (the upload uses ESSULOD), and keyword parameter information. You can also access keyword parameter information using the online documentation.

Report Output

After executing ESSDLOD, review the Audit Report (shown in Exhibit 4.1). Successful execution produces informative messages that do not require remedial action. If ESSDLOD does not execute successfully, warning and/or error messages appear on the report. Correct any errors and resubmit the job.

Upload CA IDMS SASO Document Structure (ESSULOD)

This utility uploads the CA IDMS SASO structure file into the primary areas of the installed database. Before you can execute this utility, you need to add the database (which houses a document) to CA IDMS SASO. See the installation section for information on establishing multiple CA IDMS SASO databases.
You can replace the entire contents of an existing document or restrict the upload so that printer configurations are not uploaded from the structure file through keyword parameter specifications.

Target or Distribution source library member ESSULOD (z/OS), TOOLJCL library member ESSULOD.S (Z/VSE), or the ESSULOD EXEC (Z/VM) contains the model JCL and key for this utility, and keyword parameter information. You can also access keyword parameter information using the online documentation.

⚠️ **Note:** We strongly recommend that you execute this utility in local mode, especially if your disk journals are limited in size.

### Report Output

After executing ESSULOD, review the Audit Report (shown in Exhibit 4.2). Successful execution produces informative and/or warning messages. Informative messages do not require remedial action. Warning messages may require corrective action, depending upon individual analysis of the warning message. If ESSULOD does not execute successfully, error messages appear on the Audit Report. Correct any errors and resubmit the job ESSULOD.

```
NKWP091I INPUT PARAMETER STATEMENT PROCESS,OBJDOCUMENT=SASODN01,REPLACE
NKWP094I END OF PARAMETER INPUT
ULOD001I-SUCCESSFUL UPLOAD FOR "SASODN01" DOCUMENT
```

*Exhibit 4.2: Audit Report for Upload Discrepancies Report (ESSULOD)*

### Create Release Maintenance (ESSRLSE)

This utility creates a set of maintenance by comparing two documents. For example, if Document A and Document B contain the exact same section 2, and you run ESSRLSE, no maintenance for section 2 is created. However, if one subject was added to section 2 of Document A, Document B receives insert maintenance at the subject level and replace maintenance at the section level. Exhibit 4.3 explains how to generate insert and replace maintenance.

As an option, you can generate section, subject, or topic and topic text delete maintenance through keyword parameter specification. For example, if Document B (object document) contains section 4 and Document A (source document) does not, Document B receives delete maintenance at the section level, for Section4. See Exhibit 4.4 for information on generating delete and replace maintenance.
The maintenance created is stored in the maintenance area of the database that maps to the object document for utility function (i.e., Document B discussed above). If you apply maintenance to the object document, it will equal the source document. For more information on how to apply maintenance, see Purpose of Maintenance Option (see page 54).

You can also use ESSRLSE to copy maintenance in a single document from the permanent side to the release maintenance side of the database similar to the online utility, Create Document Updates (D. 3). Copy capabilities are enabled through identical document name specifications in the object and source document keyword parameters.

Target or Distribution source library member ESSRLSE (z/OS), TOOLJCL library member ESSRLSE.S (Z/VSE), or the ESSRLSE EXEC (Z/VM) contains the model JCL and key for this utility, and keyword parameter information. You can also access keyword parameter information using the online documentation.

⚠️ **Note:** We strongly recommend that you execute this utility in local mode, especially for job runs at the document level. A high activity level on the journal files may occur if disk journals are limited in size.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Document Level Maintenance</td>
<td>Chapter 1</td>
<td>Chapter 1 (R)replace</td>
</tr>
<tr>
<td>Creation</td>
<td>Chapter 2</td>
<td>Chapter 2 (R)replace</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>Chapter 3</td>
<td>Chapter 3 (R)replace</td>
</tr>
<tr>
<td>Chapter 4</td>
<td></td>
<td>Chapter 4 (I)insert</td>
</tr>
<tr>
<td>Chapter Level Maintenance</td>
<td>Chapter 1</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>R Maintenance</td>
<td>Subject 1.1</td>
<td>Subject 1.1</td>
</tr>
<tr>
<td>R Creation</td>
<td>Subject 1.2</td>
<td>Subject 1.2</td>
</tr>
<tr>
<td>R</td>
<td>Subject 1.3</td>
<td>Subject 1.3</td>
</tr>
<tr>
<td>Subject Level Maintenance</td>
<td>Chapter 1</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>R Maintenance</td>
<td>Subject 1.1</td>
<td>Subject 1.1</td>
</tr>
<tr>
<td>R Creation</td>
<td>Topic 1.1.0</td>
<td>Topic 1.1.0</td>
</tr>
<tr>
<td>R</td>
<td>Topic 1.1.1</td>
<td>Topic 1.1.1</td>
</tr>
<tr>
<td>R</td>
<td>Subject 1.2</td>
<td>Subject 1.2</td>
</tr>
<tr>
<td>R</td>
<td>Topic 1.2.0</td>
<td>Topic 1.2.0</td>
</tr>
<tr>
<td>R</td>
<td>Topic 1.2.1</td>
<td>Topic 1.2.1</td>
</tr>
<tr>
<td>I</td>
<td>Topic 1.2.2</td>
<td>Topic 1.2.2</td>
</tr>
<tr>
<td>I</td>
<td>Topic 1.2.3</td>
<td>Topic 1.2.3</td>
</tr>
<tr>
<td>I</td>
<td>Topic 1.2.4</td>
<td>Topic 1.2.4</td>
</tr>
<tr>
<td>Topic Level</td>
<td>Chapter 1</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>R Maintenance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R Creation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Exhibit 4.3: Generating Insert and Replace Maintenance (ESSRLSE)**

<table>
<thead>
<tr>
<th>Document Level</th>
<th>Source Document</th>
<th>Object Document</th>
<th>Release Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1</td>
<td>Subject 1.1</td>
<td>Subject 1.1</td>
<td>Chapter 1 (R)place</td>
</tr>
<tr>
<td>Subject 1.1</td>
<td>Subject 1.1</td>
<td>Subject 1.1</td>
<td>Subject 1.1</td>
</tr>
<tr>
<td>Subject 1.2</td>
<td>Subject 1.2</td>
<td>Subject 1.2</td>
<td>Subject 1.3</td>
</tr>
<tr>
<td>Topic 1.1.0</td>
<td>Topic 1.1.0</td>
<td>Topic 1.1.0</td>
<td>Topic 1.1.0</td>
</tr>
<tr>
<td>Topic 1.1.1</td>
<td>Topic 1.1.1</td>
<td>Topic 1.1.1</td>
<td>Topic 1.1.1</td>
</tr>
<tr>
<td>Subject 1.2</td>
<td>Subject 1.2</td>
<td>Subject 1.2</td>
<td>Subject 1.2</td>
</tr>
<tr>
<td>Topic 1.2.0</td>
<td>Topic 1.2.0</td>
<td>Topic 1.2.0</td>
<td>Topic 1.2.0</td>
</tr>
<tr>
<td>Topic 1.2.1</td>
<td>Topic 1.2.1</td>
<td>Topic 1.2.1</td>
<td>Topic 1.2.1</td>
</tr>
<tr>
<td>Topic 1.2.2</td>
<td>Topic 1.2.2</td>
<td>Topic 1.2.2</td>
<td>Topic 1.2.2</td>
</tr>
<tr>
<td>Topic 1.2.3</td>
<td>Topic 1.2.3</td>
<td>Topic 1.2.3</td>
<td>Topic 1.2.3</td>
</tr>
<tr>
<td>Topic 1.2.4</td>
<td>Topic 1.2.4</td>
<td>Topic 1.2.4</td>
<td>Topic 1.2.4</td>
</tr>
<tr>
<td><em>Internal Representation</em></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Exhibit 4.4: Generating Delete and Replace Maintenance (ESSRLSE)

Report Output

After executing ESSRLSE, review the Audit Report (shown in Exhibit 4.5). Successful execution produces informative messages, which do not require remedial action. If ESSRLSE does not execute successfully, warning and/or error messages appear on the report. Correct any errors and resubmit the job.

Offload Release Maintenance (ESSMOFF)

This utility offloads a maintenance structure from the maintenance area of the installed database to a transportable file. Maintenance is offloaded from the maintenance area of the database specified in keyword parameters. The offloaded structure file ddname is RELEASE. The maintenance upload uses the job ESSMLOD.

The job ESSMOFF produces a printed report showing a summary of your enhancements offloaded (Maintenance Release Summary Report).

Keyword parameters allow you to specify the document and release maintenance group for offload. The printer device that prints the output can also be specified. Additional print keywords are available to direct the total number of lines to be printed on a page, the beginning column for the leftmost margin, and print type case.

Target or Distribution source library member ESSMOFF (z/OS), TOOLJCL library member ESSMOFF.S (Z/VSE), or the ESSMOFF EXEC (Z/VM) contains the model JCL and key for this utility, and keyword parameter information. You can also access keyword parameter information using the online documentation.
Report Output

The printed form of CA IDMS SASO enhancements is like printed output from the online and batch print utilities. Printed output describes document, company and division information, dates of creation and revision, and shows the textual contents of topics. For an example of CA IDMS SASO printed output, see Print Request (see page 51).

After executing ESSMOFF, review the Audit Report. Successful execution produces informative messages that do not require remedial action. If ESSMOFF does not execute successfully, warning and/or error messages appear on the Audit Report. Correct any errors and resubmit the job ESSMOFF.

The Maintenance Release Summary Audit Report lists the contents of the Release Maintenance enhancement. The report, shown in Exhibit 4.6, includes the IDs, the names, and the type of transaction for each enhancement.
Upload Release Maintenance (ESSMLOD)

This utility uploads the CA IDMS SASO offloaded maintenance structure file into the maintenance area of the database specified in keyword parameters.

Target or Distribution source library member ESSMLOD (z/OS), TOOLJCL library member ESSMLOD.S (Z/VSE), or the ESSMLOD EXEC (Z/VM) contains the model JCL and key for this utility, and keyword parameter information. You can also access keyword parameter information using the online documentation.

Note: We strongly recommend that you execute this utility in local mode, especially if your disk journals are limited in size.

Report Output

After executing ESSMLOD, review the Audit Report. Successful execution produces informative messages that do not require remedial action. If ESSMLOD does not execute successfully, warning and/or error messages appear on the Audit Report. Correct any errors and resubmit the job ESSMLOD.

A discrepancy report is generated by a comparison between the release and primary side of the CA IDMS SASO database structure (Release Maintenance Discrepancies Report). You can also optionally produce a Long Report, Change Report, and Summary Report. An example of these reports can be found in Exhibit 4.7.

The Release Maintenance Discrepancies Audit Report, shown in Exhibit 4.7, shows the comparison between the text of the enhancement and the text of its corresponding structure on your database. This report enables you to track and compare:

- Movement of Structures (section, subjects, or topics)
- Inserted structures
- Deleted structures
• Existing structures
• Altered section, subject, topic, and keyword names
• Altered section, subject, and topic external reference identifiers
• Your text with the corresponding enhancement text.

Long Report (ESSMLOD)

The optional Long Report displays every line of text, and each inserted and deleted text line in context.

• OLD NUMBER -- When a release maintenance topic is compared to an existing topic, topic text (RECORD) matches may or may not occur at the same line sequence number for the topic. This field indicates the line number position of the existing topic text. Or, in the comparison process, existing topic text (RECORD) was located at the line sequence number indicated in this field.

• NEW NUMBER -- Release maintenance topic text (RECORD) is located at the line number indicated in this field. Or, topic text (RECORD) is located at the line number indicated in this field in the release maintenance topic.

• CHG -- This field indicates the type of change that occurred, resulting in the variance between the enhancement and its corresponding structure on your database. Change types include:
  • Insert types indicate that a new RECORD is contained in the enhancement that does not reside in the primary side of the database.
  • Delete types indicate that a RECORD that exists in the primary side of your database is not contained in the enhancement.

• RECORD -- The topic text (RECORD) that is contained in the enhancement, or its corresponding structure on your database, or both.

Change Report (ESSMLOD)

The optional Change Report provides the same information as the Long Report, but only inserted and deleted text lines are displayed.

• OLD NUMBER -- When a release maintenance topic is compared to an existing topic, topic text (RECORD) matches may or may not occur at the same line sequence number for the topic. This field indicates the line number position of the existing topic text. Or, in the comparison process, existing topic text (RECORD) was located at the line sequence number indicated in this field.

• NEW NUMBER -- Release maintenance topic text (RECORD) is located at the line number indicated in this field. Or, topic text (RECORD) is located at the line number indicated in this field in the release maintenance topic.
• **CHG** -- This field indicates the type of change that occurred, resulting in the variance between the enhancement and its corresponding structure on your database. Change types include:
  
  - **I**nterest types indicate that a new RECORD is contained in the enhancement that does not reside in the primary side of the database.
  - **D**elete types indicate that a RECORD that exists in the primary side of your database is not contained in the enhancement.

• **RECORD** -- The topic text (RECORD) that is contained in the enhancement, or its corresponding structure on your database, or both.

### Summary Report (ESSMLOD)

The optional Summary Report displays counts of record matches, inserts, and deletes.

- **MATCHED RECORDS** -- The total number of RECORDs found in the enhancement and its corresponding structure on your database that exactly matched.

- **RECORDS DELETED FROM OLD FILE** -- RECORDs that exist in the primary side of your database, but are not contained in the enhancement.

- **RECORDS INSERTED INTO NEW FILE** -- The total number of RECORDs that have been added in the enhancement but not in its corresponding structure on your database.

- **OLD FILE RECORDS** -- Total number of RECORDs processed that are contained in the primary side of your database.

- **NEW FILE RECORDS** -- The total number of enhancement RECORDs.

See Exhibit 4.7 for examples of report output. For more information on this utility, see *Purpose of Maintenance Option (see page 54)*.
CHAPTER NAME: STANDARDS FOR SYSTEMS DEVELOPMENT

SUBJECT NAME: PROGRAM SPECIFICATION STANDARD

TOPIC NAME: SUBJECT OVERVIEW

KEYWORD: OVERVIEW

******************************************************************************

TOPIC TEXT ANALYSIS

CA-TOOLS            RELEASE        CA-
STANDARDS ADMINISTRATION SYSTEM ONLINE         DATE          TIME          PAGE
nn.nn                RELEASE MAINTENANCE DISCREPANCIES mm/dd/yy      hh:mm:ss

CA-TOOLS            RELEASE        CA-
STANDARDS ADMINISTRATION SYSTEM ONLINE         DATE          TIME          PAGE
nn.nn                LONG REPORT          mm/dd/yy      hh:mm:ss

OLD NUMBER  NEW NUMBER  CHG  RECORD

1           1           Purpose: To establish the program specification
2           2           requirements
n           3           3           Scope: This standard applies to all program
4           4           specifications, 7           7           database or conventional access. It
5           5           is of interest 8           8           to analysts, designers, programmers
6           6           and the DBA staff.
9           9
10          10          Documentation
11          11          Requirements: Written Program Specification Docume
nt          nt

12          12
13          13
14          14
15          15

16          16          Overview:

17          17          Program Specifications improve communication between

18          18          analysts and programmer

19          19          by providing a concrete

20          20          record of program

21          21          requirements. Hard copy requirements documentation

22          22          minimizes the necessity for verbal communication, thereby improvi

23          23          ng the productivity

24          24          development audit

25          25          +I+

26          26          Using the IDD to record program specifications make

27          27          +I+

28          28          provide the backup and recovery facilities of IDMS

29          29          :NE

30
Exhibit 4.7: Report Output for Release Maintenance Discrepancies (ESSMLOD)

Exhibit 4.8: Report Output for Release Maintenance Discrepancies (ESSMLOD)

Upload Topic Text Structure (ESSTEXT)

This utility uploads 80-byte records from one or more sequential files (TEXT) into the primary areas of the installed database as topic text.

Before you can execute this utility, use the online Add Utility (option 3.2) to add the section reference identifier and name, the subject identifier and name, and the topic reference identifier and name. See Purpose of Maintenance Option (see page 54).

Keyword parameters direct upload processes to a specific database structure. You can optionally replace the entire contents of the topic (all topic text records) with the contents of the sequential file, through keyword parameter specifications.
You can upload multiple topics from a sequential file that contains imbedded control cards in front of topic text. Keyword parameter specification enables you to direct utility processing for single topic text upload or for multiple topic text uploads. Multiple topics can be uploaded with a single execution of the ESSTEXT utility.

Target or Distribution source library member ESSTEXT (z/OS), TOOLJCL library member ESSTEXT.S (Z/VSE), or the ESSTEXT EXEC (Z/VM) contains the model JCL and key for this utility, and keyword parameter information. You can also access keyword parameter information using the online documentation.

Input to the text dataset can be either a sequential file or a PDS member. Datasets can be concatenated.

**Input File Examples**

*Format 1*

```
//TEXT DD DSN=your.custom.text,DISP=SHR
```

*Format 2*

```
//TEXT DD DSN=your.custom.text(txtgroup),DISP=SHR
```

*Format 3*

```
//TEXT DD DSN=your.custom.text(txtgrp1),DISP=SHR// DD DSN=your.custom.text(txtgrp2),DISP=SHR
```

**Report Output**

After executing ESSTEXT, review the Audit Report (shown in Exhibit 4.8). Successful execution produces informative or warning messages. Informative messages do not require remedial action. Warning messages may require corrective action, depending upon individual analysis of the warning message. If ESSTEXT does not execute successfully, error messages appear on the Audit Report. Correct any errors and resubmit the job ESSTEXT.

```
V-----+----1----+----2----+----3----+----4----+----5----+----
              6----+----7-V
NKWP091I INPUT PARAMETER STATEMENT MULTIPLE 000
09306
NKWP094I END OF PARAMETER INPUT
TEXT007I-SUCCESSFUL TOPIC TEXT UPLOAD
*LOADSASODN016 9 0
TEXT007I-SUCCESSFUL TOPIC TEXT UPLOAD
*LOADSASODN016 9 1
TEXT007I-SUCCESSFUL TOPIC TEXT UPLOAD
*LOADSASODN016 9 2
TEXT005E-OBJTOPIC "1" WAS NOT FOUND IN THE "SASODN01" DOCUMENT
```
Print CA IDMS SASO Documents (ESSPRINT)

Like the online Print Request Utility, the batch print utility enables you to print an entire document and ranges of or specific sections, subjects, or topics. Printed output describes document and company information, dates of creation and revision, and the textual contents of topics.

Keyword parameters allow you to specify the document and optionally the section, subject, or topic to be printed. The printer device that prints the output can also be specified. Additional print keywords are available to direct the total number of lines to be printed on a page, the beginning column for the leftmost margin, and print type case. You can also optionally enact print on both sides of the page with dual-sided numbering.

You can also print or suppress print of the detailed table of contents or the topic keyword cross reference.

Target or Distribution source library member ESSPRINT (z/OS), TOOLJCL library member ESSPRINT.S (Z/VSE), or the ESSPRINT EXEC (Z/VM) contains the model JCL and key for this utility, and keyword parameter information. You can also access keyword parameter information using the online documentation.

Report Output

After executing ESSPRINT, review the Audit Report (shown in Exhibit 4.9). Successful execution produces informative messages that do not require remedial action. If ESSPRINT does not execute successfully, warning and/or error messages appear on the report. Correct any errors and resubmit the job.

See Utilities Option (https://docops.ca.com/display/IDMS19/Utilities+Option) for an example of CA IDMS SASO printed output.
CA IDMS SASO Operations

This section covers CA IDMS SASO operations. It describes the system requirements, printer characteristics, the logical database design of CA IDMS SASO, CA IDMS SASO internal structures, security implementation, the need to backup your CA IDMS SASO database, local mode execution of batch utilities, and printing the online documentation.

Terminal Type

CA IDMS SASO can be used from these terminals:

- IBM 3270 terminal (except models 2 through 5), including the 3279 color display
- Any other 3270-compatible terminal.

For more information, see the following topics:

- Printer Characteristics (see page 93)
- Data Structure (see page 96)
- CA IDMS SASO Security 4 (see page 101)
- CA IDMS SASO Backups (see page 105)
- Migrating the CA IDMS SASO Databases (see page 105)
- Executing Batch Utilities in Local Mode (see page 106)
- CA IDMS SASO Customization Macros (see page 106)
- Online Documentation Print Utility 3 (see page 107)
- Online Message Facility 1 (see page 109)

Printer Characteristics

Contents

- Print Macros (OCL Commands) (see page 94)
- Processing of DEVICE Types for All Printers (see page 94)
- Disk/Tape Output Options (see page 94)
- 3800 Printer Support (see page 95)

An array of commands are provided that can be included within document text for the purpose of directing printer output. These commands are implemented through a command table so that new features can be added with a minimum of effort and impact to the product.

Upon initial installation of CA IDMS SASO, the control character sequence for each of these printer directives is supplied for IMPACT, 6670, and 3800 printers. See Exhibit 5.1 for a list of these characters.
Control characters for additional devices are established using online facilities under the Utilities Option, Printer Configuration.

Print Macros (OCL Commands)

The OCL Commands utility gives you the ability to define and maintain print macros specific to your printer device's requirements. You can define a macro by adding a print control verb and specifying the associated hexadecimal print control characters for that verb.

You can then embed the print control verb anywhere in topic text in the format:

: print-control-verb

Where:

print-control-verb -- any of the print control verbs shown in Exhibit 5.1 or print control verbs defined by you.

Rules:

- A colon (:) must precede all print control verbs
- All print control verbs must appear in column 1 EXCEPT :C(Bold) and :@ (Underline).

When you request a print of the text, the hexadecimal equivalent of the printer control verb is substituted for the verb.

For more information on defining print control verbs, refer to the online documentation for the Printer Configuration utility (3.6).

Processing of DEVICE Types for All Printers

For printer device types prefixed with IMPACT, 6670, or 3800 device identifiers specific device processing occurs. If the device-ID prefix is not one of the fully supported types, the device is treated as an IMPACT type. The only exception is that the //OCL DD is read for printer control records, and these records are passed through to the device prior to the offload of the section.

Note: For printer devices other than IMPACT, 6670, or 3800, you must specify the //OCL DD * statement in your DEVICE's JCL, followed by printer control statements to instruct your printer to act as an IMPACT printer.

Disk/Tape Output Options

In addition to IMPACT, 6670, or 3800 printer support, CA IDMS SASO gives you the ability to direct print output to dataset name specifications in JCL text for DISK and TAPE.
CA IDMS - 19.0

You must specify the name of the dataset for output destination on the DSNAME parameter in the JCL text.

These new device types provide a sequential output equivalent of the normal printed CA IDMS SASO request without ASA control characters or bolding/underlining.

Any printer device beginning with DISKxxxx or TAPExxxx is processed in this manner.

3800 Printer Support

The 3800 printer support requires the following:

- You must use two non-proportional character sets in order to print the CA IDMS SASO section using the 3800 substation.

- Each of the character-set IDs must have the high-order bit set ON. This enables the 3800 automatic underscoring capability.

- One of the character sets should be normal intensity and the other character set should be bold intensity.

*For z/OS* the //MANUAL DD statement must have the following parameters:

\[
\text{CHARS=(normal-set-id,bold-set-id) DCB=(RECFM=FBA,OPTCD=J)}
\]

*For Z/VSE* the //SETPRT statement must be specified as follows:

\[
\text{//SETPRT SYS017, CHARS=(normal-set-id,bold-set-id), DLFT=Y, DCHK=U, TRC=Y}
\]

Where:

- `normal-set-id` -- is the character set identifier for the non-bolded text.

- `bold-set-id` -- is the character set identifier for the bolded text.

<table>
<thead>
<tr>
<th>Control</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\text{:E})</td>
<td>Begin the textual line on a new page. Must be placed in column 1.</td>
</tr>
<tr>
<td>(\text{:C})</td>
<td>Toggle between bold and non-bold for each cent sign (&amp;cent.) encountered. Must be placed on either side of the string to be highlighted.</td>
</tr>
<tr>
<td>(\text{:@})</td>
<td>Toggle between underlined and non-underlined for each &quot;at&quot; sign (@) encountered. Must be placed on either side of the string to be underlined.</td>
</tr>
<tr>
<td>(\text{:Sn})</td>
<td>Insert n number of blank lines at the current location in the text. Must be placed in column one.</td>
</tr>
<tr>
<td>(\text{:E NOH})</td>
<td>Forces a page eject. Suppresses the printing of a header. Must be placed in column 1.</td>
</tr>
<tr>
<td>(\text{:CE})</td>
<td>Centers all of the data following the command on the line. Must be placed in column 1.</td>
</tr>
<tr>
<td>(\text{:NS xx})</td>
<td>Starts change notation. Marks each line with the hex character</td>
</tr>
</tbody>
</table>
Control Characters

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>:NE</td>
<td>Ends the change notation. Must be placed in column 1.*</td>
</tr>
<tr>
<td>:IN +nn</td>
<td>nn</td>
</tr>
<tr>
<td>:IM a b c d</td>
<td>Enable the CA IDMS SASO/CA IDMS Enforcer interface by inserting the imbed at relevant places in CA IDMS SASO text. Must begin in column 1. The imbed is expanded when it is encountered in CA IDMS SASO print, browse, and release maintenance offload (ESSMOFF) processing. If the target template is successfully located, a series of 80-byte lines is returned in a conversational manner to the CA IDMS SASO browse and print processors. Where: a = a valid dictionary name identifier or a single comma (,) representing the default dictionary. Required. b = a valid Node Name identifier or a single comma (,) representing the default node. Required. c = a valid, entity-level enforcement structure for the indicated dictionary/node combination. Required. d = a valid, template-level enforcement structure for the indicated dictionary/node-entity combination. Required. Rules: Each of the four keywords must be separated by a space. You must provide a valid entry or a comma (,) for each. The template identifier contains imbedded spaces, place it within single quotes. Example: :IM TKIT , ATTRIBUTE 'PRIMARY ATTRIBUTE'</td>
</tr>
</tbody>
</table>

Exhibit 5.1: Control Characters

Note: Bold (:¢) and Underline (:@) can be placed around the specified strings throughout the text so that phrases are highlighted and underlined. All other characters must be placed in column 1.

Data Structure

Contents
- Hierarchical Update Tracking (see page 98)
  - Primary Document Update Tracking (see page 98)
  - Release Maintenance Area Update Tracking (see page 98)
  - Printer Configuration Update Tracking (see page 99)
- Internal Tracking Identifiers (see page 99)
  - Purpose of Internal Tracking Identifiers (see page 99)
  - Reviewing Internal Tracking Identifiers (see page 100)
The logical database structure of CA IDMS SASO is strictly hierarchical (see Exhibit 5.2). This is true for both the primary and maintenance areas. The major difference between the two is in the relationship between subjects and related subjects. In the primary area, a bill of material exists. That is, subject relationships can be determined from subject and related subject lists. In the maintenance area, subject relationships can be determined from subject lists only.
Exhibit 5.2: CA IDMS SASO Data Structure Diagram

Hierarchical Update Tracking

Updates made to structures in the Primary Document area, Release Maintenance area, and Printer Configurations result in changes to the change tracking information (DATE REVISED, TIME REVISED, REVISED BY, etc.).

Primary Document Update Tracking

If a topic is modified, CA IDMS SASO updates the topic, subject, section, and document control change tracking information.

If a subject is modified, CA IDMS SASO updates the subject, section, and document control change information.

If a section is modified, CA IDMS SASO updates the section and document control change information.

Primary document modifications which trigger an update of change tracking information include:

- Editing one or more characters in a topic's text
- Renaming a section, subject, topic, or topic keyword
- Deleting, reorganizing, or adding structures where renumbering or compressing occurs
- Applying maintenance to the primary document
- Changing document security class codes, renaming documents, or adding new documents.

You can display change tracking information online in a section, subject, related subject, or topic list. Entering the STATS ON|OFF command enables immediate display of tracking information in a list and in a topic text screen.

Release Maintenance Area Update Tracking

Application of maintenance to the primary document results in a change in tracking information in both areas of the document.

Maintenance changes that trigger an update of change tracking information include:

- Editing one or more characters in the Maintenance topic text updates the topic, subject, section, maintenance release structure, and document control change tracking information
- Deleting a maintenance structure updates the maintenance and document control structures change information
- Applying maintenance at the subject level results in updates to the subject, owner section, maintenance release structure, and document control change tracking information
Purging a maintenance release updates document control change tracking information.

You can display change tracking information online in a section, subject, related subject, or topic list. Entering the STATS ON|OFF command enables immediate display of tracking information in a list and in a topic text screen.

Printer Configuration Update Tracking

Printer configuration additions, modifications, deletions, and JCL text changes result in changes to the change tracking information for the printer device components and the document control structure.

Printer device components include:

- Printer device name, device description, and lines per page
- Printer device printer initialization string
- Printer device OCL commands
- Printer device JCL text.

You can display change tracking information online in the Printer Configuration utility entry screen, in a Printer Device List, and in the OCL Commands List for a printer device using primary and line command specifications.

For more information on displaying change tracking information, refer to the online documentation for the Printer Configuration utility (3.7).

Internal Tracking Identifiers

CA IDMS SASO uses internal tracking numbers to uniquely identify sections, subjects, and topics you add to your documents using the Add/Insert Structure utility (3.2).

Internal tracking identifiers are assigned at the section, subject, and topic levels for all components of a document.

Once internal tracking identifiers are defined, they remain unchanged. Structure modifications, renames, reorganizations, and application of maintenance do not alter internal tracking identifier definitions.

If you delete an existing section, subject, or topic from a document, however, the unique tracking identifier initially assigned to that structure is longer be present in your document and cannot be recreated.

Purpose of Internal Tracking Identifiers

External structure reference identifiers may become altered using CA IDMS SASO utility functions. Therefore, unique internal tracking identifiers were created to permanently enable identification of sections, subjects, and topics.
Internal tracking identifiers are used in the Maintenance Option (4.0) to compare internal identifiers of structures contained in the MAINTENANCE area of a document with the identifiers of structures contained in the PRIMARY area of the same document. See Exhibit 5.2 for a description of the CA IDMS SASO data structure.

When internal identifiers existing in both areas of a document, the maintenance is labeled as R-Replace maintenance and overlays the structure contained in the PRIMARY area when applied using the online utility function.

When no match on internal identifiers can be located in both areas, the maintenance is labeled as I-Insert maintenance.

See Maintenance Option for information on creating maintenance, maintenance types, and applying maintenance.

**Reviewing Internal Tracking Identifiers**

You can review internal tracking identifiers in both areas of a document. Once you display a section, subject, or topic list, you can issue the STATS ON command to review internal information on that structure.

Each level of a structure contains its own unique set of internal identifiers. As an example, a subject contains a subject internal identifier and a section internal identifier. The section internal identifier may not necessarily represent that subject's owner section.

The internal tracking identifier of a section, subject, or topic consists of:

- Unique internal tracking identifier of the CV established at product installation.
- **Chapter** - the incremental value assigned when the section was added to the document. This value starts out at 0 at product installation and can be increased to 65,535. Therefore, 65,535 new sections can be added to a document.
- **Subject** - the incremental value assigned when the subject was added to the document. This value starts out as 0 at production installation and can be increased to 65,535. Therefore, 65,535 new subjects can be added to a document.
- **Topic** - the incremental value assigned when the topic was added to the document. This value starts out as 0 at product installation and can be increased to 65,535. Therefore, 65,535 new topics can be added to a document.

The next level of internal identifier demonstrates the internal identifier of the structure to which a subject or topic was initially added. As mentioned earlier, these values are never changed:

- **SectionLevel** - Not applicable. The document control structure is the highest level above a section.
- **Subject Level** - The section identifier for a subject represents the internal ID of the original section to which the subject was added.
- **Topic Level** - The subject identifier for a topic represents the internal ID of the original subject to which the topic was added. The section identifier for a topic represents the internal ID of the original section to which the topic was added.

# CA IDMS SASO Security 4

## Contents
- Securing CA IDMS SASO Tasks (see page 101)
- Securing CA IDMS SASO Documents (see page 104)
- Securing CA IDMS SASO Document Chapters (see page 104)
- Symbolic Parameter Security (see page 105)

The CA IDMS SASO integrated security feature gives you the ability to provide security at the following levels:

- Task
- Document Update
- Document Browse
- Section Update
- Section Browse.

## Securing CA IDMS SASO Tasks

You can secure the CA IDMS SASO tasks shown in Exhibit 5.3 by defining CA IDMS task category resources for CA IDMS SASO. Once task category resource entities have been defined, users can be granted execution privileges to access specific CA IDMS SASO functions (CA IDMS SASO securable tasks).

Security checking is performed at CA IDMS SASO runtime. Task-level security is verified first. Tasks that are not defined to CA IDMS security are accessible by all users.

### Task Names and Descriptions: SASO

- ESSAMENU -- CA IDMS SASO Primary Menu
- ESSABENT -- Browse Entry Screen
- ESSABCR -- SectionList
- ESSABSR -- Subject List
- ESSABTR -- Topic List
- ESSABRS -- Related Subjects List
- ESSABSA -- Subject List by Subject Name Index
- ESSABTA -- Topic List by Topic Name Index
- ESSABKA -- Topic List by Topic Keyword Index
- ESSAEENT -- Edit Entry Screen
- ESSAECR -- SectionList
- ESSAESR -- Subject List
- ESSAETR -- Topic List
- ESSAERS -- Related Subjects List
- ESSAESA -- Subject List by Subject Name Index
- ESSAETA -- Topic List by Topic Name Index
- ESSAEKA -- Topic List by Topic Keyword Index
- ESSAUMNU -- Utilities Menu
- ESSAUSEC -- SectionLevel Security Screen
- ESSAUSC -- Assign SectionLevel Security Screen
- ESSAUSS -- Subject List
- ESSAUSR -- Related Subjects List
- ESSAUST -- Topic List
- ESSAUREN -- Rename/Delete Utility
- ESSAURCR -- SectionList
- ESSAURSR -- Subject List
- ESSAURTR -- Topic List
- ESSAURRS -- Related Subjects List
- ESSAUAEN -- Add Structure Utility
- ESSAUMEN -- Reorganize Utility
- ESSAUSEN -- Subject Relator Utility
- ESSAUSCR -- SectionList
- ESSAUSSR -- Subject List
- ESSAUSTR -- Topic List
- ESSAUSR -- Related Subjects List
- ESSAUDOC -- Document Configuration Utility
- ESSAUPEN -- Printer Configuration Utility
- ESSAUPTL -- Printer Configuration List
- ESSAUPCA -- Add Printer Control Directive
- ESSAUPCC -- OCL Commands Screen
- ESSAUPRT -- Print Request Utility
- ESSAUCHG -- Change Structure Statistics Utility
- ESSAUCC -- SectionList
- ESSAUCS -- Subject List
- ESSAUCR -- Related Subjects List
- ESSAUCT -- Topic List
- ESSAMNT -- Release Maintenance List
- ESSAMCR -- SectionList
- ESSAMSR -- Subject List
- ESSAMTR -- Topic List
- ESSAMRS -- Related Subjects List
- ESSADOCU -- Document Utilities Menu
- ESSADSC -- Assign Document Level Security Class
- ESSADUR -- Rename/Delete Document Utility
- ESSADUA -- Add Document Utility
- ESSADUS -- Create Document Updates Utility
- ESSADUD -- Add/Copy Document Configurations
- ESSADUP -- Add/Copy Printer Configurations
- ESSADSS -- String Search Facility
Securing CA IDMS SASO Documents

You can secure specific CA IDMS SASO documents by:

- Defining CA IDMS security resources for document browse and update activity

**Note:** When creating an activity resource for CA IDMS SASO using CA IDMS internal or external security, the application name for the activity resource should be the CA IDMS SASO document name or dbname. These activity resources should be assigned to the user authorized to browse or update these activities.

- Using the online Document Security utility to assign activity number(s) to the document for browse, update, or both

- Granting execution privileges to a user or group for access to the document for browse, update, or both.

Security checking is performed at CA IDMS SASO runtime. Task-level security is verified first, followed by document access authorizations. The signed-on user can access only those documents to which they have been granted execution privilege to access in browse or update mode online.

For detailed information on defining document security in CA IDMS SASO, access the Document Security Utility (D.0) and refer to the online documentation.

Securing CA IDMS SASO Document Chapters

You can secure specific sections of any CA IDMS SASO document by:

- Defining CA IDMS security resources for section browse and update activity

**Note:** When creating an activity resource for CA IDMS SASO using IDMS internal or external security, the application name for the activity resource should be the CA IDMS SASO document name or dbname. These activity resources should be assigned to the user authorized to browse or update these activities.

- Using the online SectionSecurity in a SectionList, to assign activity number(s) to the section for browse, update, or both

- Granting execution privileges to a user or group for access to the section(s) for browse, update, or both.
Security checking is performed at CA IDMS SASO runtime. Task-level security is verified first, followed by document access authorizations. Section security is verified when the signed-on user attempts to browse a section or select a section for utility functions. The user is able to access only those sections for which they have been granted access privileges in browse or update mode online.

For detailed information on defining document security in CA IDMS SASO, access SectionSecurity and refer to the online documentation.

**Symbolic Parameter Security**

Security is also provided through the use of the &USERID and &PASSWORD symbolic parameters.

If the keywords &USERID or &PASSWORD are encountered anywhere in the job cards or JCL text, the values assigned to these symbolic parameters are substituted in their place at runtime. These values are assigned using the Print Request utility (3.7).

The &PASSWORD symbolic is entered in a darkened screen field and submitted at the time of submission, thus ensuring security integrity.

This feature provides for the security of eTrust CA-ACF2 and other security package passwords entered through the job card.

**CA IDMS SASO Backups**

CA IDMS SASO can be viewed as a CA IDMS database application system running on your CA IDMS/DC system. As such, be sure to backup to tape your CA IDMS SASO database in accordance with normal backup procedures for application systems within your company. Repeat the backup process as often as your company standards require.

It is also good practice to backup your load and source libraries as you would other such files within your company.

**Migrating the CA IDMS SASO Databases**

To migrate the text of the CA IDMS SASO database from one DC environment to another (database), download the contents of the database and populate the database of the new environment with the downloaded text.

Download the database by using the Download CA IDMS SASO Document Structure batch utility (ESSDLOD). This procedure writes the entire contents of the primary structure to a disk file or tape.

Populate another database with the tape or disk output file by using the Upload CA IDMS SASO Document Structure batch utility (ESSULOD) and specify the appropriate keyword parameters to either replace an existing structure or populate a new database.

For more information on these utilities, see Batch Utilities (https://docops.ca.com/display/IDMS19/Batch+Utilities).
Executing Batch Utilities in Local Mode

Several utilities perform operations at the document level. If these utilities are performed at the document level, a high activity level on the journal files may occur.

In particular, the online Create Document Updates utility (D.3) should never be run at the document level. Consideration should be given to using this utility at the section level. Every effort has been made to minimize the effect on the central version (CV), but CPU requirements can be significant.

The following batch utilities may also impact the central version environment:

- ESSULOD
- ESSRLSE
- ESSMLOD

Consideration should be given to local-mode execution of these utilities, especially if disk journals are limited in size.

See the appropriate CA IDMS section for information on local-mode access.

CA IDMS SASO Customization Macros

Two customization macros are provided with CA IDMS SASO which allow you to change various CA IDMS SASO runtime options:

The **CA IDMS SASO customization macro** gives the system administrator the ability to:

- Load CA IDMS SASO online documentation text to a dictionary other than the primary dictionary associated with the CA IDMS/DC under which CA IDMS SASO runs
- Change task code from default of SASO
- Change default document name from SPG
- Supply three default JCL job card lies on the Print Request screen.

The **CA IDMS/DC Sort subroutine customization macro** gives the system administrator the ability to:

- Specify the amount of main storage and auxiliary storage to be made available to the CA IDMS/DC Sort subroutine used by CA IDMS SASO.
- Indicate how space is to be allocated to buffers at runtime. The allocation of buffers also depends on the record length in a particular sort.

These runtime options can be changed at anytime after initial product installation, either before or after SMP/E ACCEPT processing.
CA IDMS - 19.0

Note: For more information on processing customization macro changes under SMP/E, see the CA IDMS Installation and Maintenance Section -- z/OS.

Online Documentation Print Utility 3

The CA IDMS Online Documentation Print utility provided with CA IDMS SASO allows error messages and other product information to be printed upon request.

Target or Distribution source library member GSIPRINT (z/OS), SAMPJCL library member GSIPRINT.S (Z/VSE), or the GSIPRINT EXEC (Z/VM) downloaded from the product installation media contains the JCL to execute the Online Documentation Print Utility.

The online documentation modules for CA IDMS SASO processing are listed in Exhibit 5.4. You can print major function modules, together with subordinate modules, in a single execution of GSIPRINT. You can also print subordinate modules individually.

The printed version of the online documentation is presented one screen per page and includes page reference indexes for screen options. Characters highlighted in the online documentation appear bolded in the printed version.

Module Names and Descriptions

- COMMANDS -- Generic EDITOR documentation
- GSIHELP -- General Service documentation
- ESSABENT -- Browse Entry Screen
- ESSACMD -- CA IDMS SASO Commands
- ESSADOCL -- Document List
- ESSADOCU*, ** -- Document Utilities Menu
- ESSADSC -- Assign Document Security Class Utility
- ESSADUR -- Rename/Delete Document Utility
- ESSADURC -- Confirm Document Delete Screen
- ESSADUA -- Add Document Utility
- ESSADUS -- Create Document Updates Utility
- ESSADUD -- Add/Copy Document Configurations Utility
- ESSADUP -- Add/Copy Printer Configurations Utility
ESSADSS -- String Search Facility

ESSAEENT -- Edit Entry Screen

ESSAGCR -- Generic SectionList

COMMANDS -- Generic EDITOR documentation

ESSAGKA -- Generic Topic List by Topic Keyword Index

ESSAGRS -- Generic Related Subjects List

ESSAGSA -- Generic Subject List by Subject Name Index

ESSAGSR -- Generic Subject List

ESSAGTA -- Generic Topic List by Topic Name Index

ESSAGTR -- Generic Topic List

ESSAICPY -- Copy Utility

ESSAID -- The ID Command/Screen

ESSAKEY -- PF Key Definition Screen

ESSAMASN -- Update Assignment Screen

ESSAMCF -- Confirm Apply Screen

ESSAMENU -- Primary Tutorial Menu

ESSAMNT -- Release Maintenance List

ESSAMPUR -- Confirm Purge Screen

ESSMSG -- CA IDMS SASO Messages

ESSAREC -- CA IDMS SASO Recovery Screen

ESSSHOW -- Browse Commands

ESSASRT -- List Sorting Screen

ESSAUMNU* -- Utilities Menu

ESSAUSEC -- SectionLevel Security Screen

ESSAUREN -- Rename/Delete Structure

ESSAUAEN -- Add Utility

ESSAUSEN -- Subject Relator Screen
Online Message Facility 1

CA IDMS SASO allows you to view message text in an online environment.

To access the Message Index screen:

1. Type M in the OPTION field of the first online documentation panel for each CA IDMS SASO screen.

2. Press the ENTER key.

The Message Index screen is displayed.
To view message text:

1. Type the message number in the INDEX line of the Message Index screen.

2. Press the ENTER key.

The text for that message is displayed.

You can also use the Online Documentation Print utility described above to print the message module ESSMSG, which was added to your dictionary at the time of installation.