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FIGURE 2. Process for Updating and Changing Your Configuration . . . . . . . . . 114
This manual covers the configuration and customization for both of the following products.

- OMEGAMON® XE for Storage Version 100
- OMEGAMON II for SMS Version 540

This manual contains:

- a set of checklists you can use to complete the steps required to configure and customize the products
- an overview of the process for installing and configuring all Candle products and components
- the planning information you should review before you configure the products and components
- information about using the Candle Installation and Configuration Assistance Tool (CICAT) to configure the products and components
- the step-by-step instructions to follow to complete the manual configuration outside of CICAT and manual customization outside of CICAT (if any)
- the step-by-step instructions to follow to update or change the configuration
About This Book

Who should read this book

This guide is intended for the users of OMEGAMON XE for Storage and OMEGAMON II for SMS, including product administrators and systems programmers.

Documentation set information

<table>
<thead>
<tr>
<th>Product You Are Configuring</th>
<th>Product-Specific Documentation Provided</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMEGAMON XE for Storage, Version 100</td>
<td>User’s Guide S354-6575</td>
</tr>
<tr>
<td></td>
<td>Configuration and Customization Guide, S351-6592</td>
</tr>
<tr>
<td></td>
<td>Quick Reference Guide, DF55-6584</td>
</tr>
<tr>
<td></td>
<td>Administrator’s Guide, DF99-6583</td>
</tr>
<tr>
<td></td>
<td>Tuning Guide, DF54-6584</td>
</tr>
<tr>
<td></td>
<td>Configuration and Customization Guide, S351-6592</td>
</tr>
</tbody>
</table>

Where to look for more information

For more information related to this product and other related products, please see the:

- technical documentation CD-ROM that came with your product
- technical documentation information available on the Candle Web site at www.candle.com
- online help provided with this and the other related products.
About This Book

Ordering additional documentation

To order additional product manuals, contact your Candle Customer Support representative.

We would like to hear from you

Candle welcomes your comments and suggestions for changes or additions to the documentation set. A user comment form, located at the back of each manual, provides simple instructions for communicating with the Candle Information Development department.

You can also send email to UserDoc@candle.com. Please include "OMEGAMON XE for Storage and OMEGAMON II for SMS Config. and Cust. Guide" in the subject line.
Adobe Portable Document Format

Printing this book

Candle supplies documentation in the Adobe Portable Document Format (PDF). The Adobe Acrobat Reader will print PDF documents with the fonts, formatting, and graphics in the original document. To print a Candle document, do the following:

1. Specify the print options for your system. From the Acrobat Reader Menu bar, select File > Page Setup… and make your selections. A setting of 300 dpi is highly recommended as is duplex printing if your printer supports this option.

2. To start printing, select File > Print… on the Acrobat Reader Menu bar.

3. On the Print pop-up, select one of the Print Range options for
   - All
   - Current page
   - Pages from: [ ] to: [ ]

4. (Optional). Select the Shrink to Fit option if you need to fit oversize pages to the paper size currently loaded on your printer.

Printing problems?

The print quality of your output is ultimately determined by your printer. Sometimes printing problems can occur. If you experience printing problems, potential areas to check are:

- settings for your printer and printer driver. (The dpi settings for both your driver and printer should be the same. A setting of 300 dpi is recommended.)
- the printer driver you are using. (You may need a different printer driver or the Universal Printer driver from Adobe. This free printer driver is available at www.adobe.com.)
- the halftone/graphics color adjustment for printing color on black and white printers (check the printer properties under Start > Settings > Printer). For more information, see the online help for the Acrobat Reader.
- the amount of available memory in your printer. (Insufficient memory can cause a document or graphics to fail to print.)

For additional information on printing problems, refer to the documentation for your printer or contact your printer manufacturer.
Contacting Adobe

If additional information is needed about Adobe Acrobat Reader or printing problems, see the Readme.pdf file that ships with Adobe Acrobat Reader or contact Adobe at www.adobe.com.
Start Here to Configure Products and Maintenance

Overview

This chapter contains a checklist or topic for each of the steps in the process for configuring products and maintenance.

You use the checklists and topics in this chapter to:

- guide you through the steps in the process for configuring and customizing products and components
- verify that you have used all of the options in CICAT required for your specific situation
- verify that you have completed all the required steps outside of CICAT to configure and customize the products and components
- locate detailed information when you need background information or step-by-step instructions for a specific task

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Using the Checklists and Topics in this Chapter

Determine the checklists and topics to use

The following table shows the checklist or topic you should use for your tasks.

<table>
<thead>
<tr>
<th>Task</th>
<th>Checklists and Topics to Use in this Chapter</th>
<th>Page #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete the configuration and customization of OMEGAMON II for SMS</td>
<td>☐ Checklist: Prerequisites for Configuring Products</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>☐ Checklist: Starting CICAT and Accessing the Menu for Configuration</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>☐ OMEGAMON II for SMS Checklist: Configuring Using CICAT</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>☐ Checklist: Configuring Outside of CICAT</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>☐ OMEGAMON II for SMS Checklist: Customizing Outside of CICAT</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>☐ Using Advanced Features in CICAT</td>
<td>38</td>
</tr>
<tr>
<td>Complete the configuration and customization of OMEGAMON XE for Storage</td>
<td>☐ Checklist: Prerequisites for Configuring Products</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>☐ Checklist: Starting CICAT and Accessing the Menu for Configuration</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>☐ OMEGAMON XE for Storage Checklist: Configuring Using CICAT</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>☐ Checklist: Configuring Outside of CICAT</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>☐ OMEGAMON XE for Storage Checklist: Customizing Outside of CICAT</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>☐ Using Advanced Features in CICAT</td>
<td>38</td>
</tr>
<tr>
<td>Update or change the configuration for both products</td>
<td>☐ Checklist: Starting CICAT and Accessing the Menu for Configuration</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>☐ Checklist: Updating the Configuration</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>☐ Using Advanced Features in CICAT</td>
<td>38</td>
</tr>
</tbody>
</table>
Using the Checklists and Topics in this Chapter

How to use the checklists

The tasks in the checklists are listed in the order they are performed. You use:

- the first column with the box to track the tasks you complete
- the next column(s) to determine the task
- the last column to locate background information or step-by-step instructions in the resources provided with the product (such as the online help and this guide)

If you are not familiar with Candle, CICAT, or the process

If you are not familiar with Candle terminology, CICAT, or the process of installing, maintaining, configuring, and customizing products, see Chapter 2.
Checklist: Prerequisites for Configuring Products

Who should use this checklist

Use this checklist if you are configuring and customizing:

- OMEGAMON XE for Storage
- OMEGAMON II for SMS

Checklist: Prerequisites for configuring products

The checklist contains the prerequisite actions you must have completed before you can begin to configure the product. The checklist also:

- indicates the order in which the steps should be performed
- shows where you would find the information you need if you have not completed the prerequisite

<table>
<thead>
<tr>
<th>✓</th>
<th>Prerequisite</th>
<th>Location of Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>If you have not already done so, verify for the product you want to configure that:</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
</tr>
<tr>
<td></td>
<td>□ you have the required software</td>
<td></td>
</tr>
<tr>
<td></td>
<td>□ you have the required DASD space</td>
<td></td>
</tr>
<tr>
<td></td>
<td>□ the product versions can exist in the same CSI</td>
<td></td>
</tr>
<tr>
<td>□</td>
<td>Installed the product and components using CICAT</td>
<td></td>
</tr>
<tr>
<td>□</td>
<td>Created a runtime environment (RTE) using CICAT</td>
<td></td>
</tr>
</tbody>
</table>

Start Here to Configure Products and Maintenance 21
## Checklist: Prerequisites for Configuring Products

<table>
<thead>
<tr>
<th>✓</th>
<th>Prerequisite</th>
<th>Location of Information</th>
</tr>
</thead>
</table>
| ☐ | Completed the configuration for a Candle Management Server® (CMS) | *Candle Management Server Configuration and Customization Guide*  
*the online help in CICAT* |
| ☐ | If this is the first time you have used Candle products or you are not familiar with the terminology, CICAT, or the process, review an overview. | Chapter 2 in this guide |
| ☐ | If this is the first time you have used Candle products or you do not know the configuration you want, review the background, planning information, and migration information (if any) | Chapter 3 in this guide |

### Determining what to do next

See “Checklist: Starting CICAT and Accessing the Menu for Configuration” on page 23.
Checklist: Starting CICAT and Accessing the Menu for Configuration

Who should use this checklist
Use this checklist if you are configuring and customizing:
- OMEGAMON XE for Storage
- OMEGAMON II for SMS

Checklist: Starting CICAT and accessing the menu for configuring
The checklist contains the steps you perform to start CICAT and access the menu for configuring.
The steps are listed in the order they must be performed. Use the ✓ column to check off steps as you complete them.

<table>
<thead>
<tr>
<th>✓</th>
<th>Task</th>
<th>Location of Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Using TSO, start CICAT by executing shilev.INSTLIB.</td>
<td>“Starting CICAT” on page 63</td>
</tr>
<tr>
<td></td>
<td>On the CICAT Main Menu, select <strong>Configure products</strong> and complete the following options on the menu.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If this is the first time you have used CICAT V300 to configure a Candle product, use <strong>Set up configuration environment</strong> to specify values that CICAT will use to build the runtime dataset allocation JCL for all the products you are configuring.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Use <strong>Select product to configure</strong> to display a list of the products available and to select the product you want to configure using the S (Select product) select.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>On the Runtime Environments (RTEs) panel, either:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>– create and select the RTE that you want to contain the product</td>
<td></td>
</tr>
<tr>
<td></td>
<td>– select the RTE you want to contain the product</td>
<td>“Accessing the Menu for Configuring the Product” on page 64</td>
</tr>
</tbody>
</table>
Checklist: Starting CICAT and Accessing the Menu for Configuration

Determining what to do next

Review the following table to determine what to do next.

<table>
<thead>
<tr>
<th>Product You Want to Configure</th>
<th>Checklist or Topic to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMEGAMON II for SMS</td>
<td>“OMEGAMON II for SMS Checklist: Configuring Using CICAT” on page 25</td>
</tr>
<tr>
<td>OMEGAMON XE for Storage</td>
<td>“OMEGAMON XE for Storage Checklist: Configuring Using CICAT” on page 27</td>
</tr>
</tbody>
</table>
OMEGAMON II for SMS Checklist: Configuring Using CICAT

Who should use these checklists

Use these checklists if you are configuring and customizing OMEGAMON II for SMS.

CICAT configuration for OMEGAMON II for SMS

The following checklist contains the steps you perform in CICAT to begin to configure OMEGAMON II for SMS.

The steps are listed in the order they must be performed. Use the ✓ column to check off steps as you complete them.

<table>
<thead>
<tr>
<th>✓</th>
<th>Location in CICAT</th>
<th>Configuration Step to Perform in CICAT</th>
<th>Location of Information</th>
</tr>
</thead>
</table>
| □ | Configure OMEGAMON II for SMS Menu | Use **Specify configuration values** to:  
   - specify the OMEGAMON II for SMS collection values to the CMS  
   - if a presentation address space is required in this runtime environment, create the OMEGAMON II for SMS presentation address space (A monitored system requires at least one address space.) | Online help in CICAT |
| □ | Configure OMEGAMON II for SMS Menu | Use **Create runtime members** to generate the job that defines the address space and installs the agent into the address space. | Online help in CICAT |
| □ | Configure OMEGAMON II for SMS Menu | Use **Register with local CMS** to specify the CMS for OMEGAMON II for SMS. | Online help in CICAT |
### OMEGAMON II for SMS Checklist: Configuring Using CICAT

<table>
<thead>
<tr>
<th>✓</th>
<th>Location in CICAT</th>
<th>Configuration Step to Perform in CICAT</th>
<th>Location of Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Configure OMEGAMON II for SMS Menu</td>
<td>If you want to archive the data collected so that you can retrieve it at a later date, use <strong>Configure persistent datastore</strong> to specify the values for the Persistent Datastore (PDS).</td>
<td>Online help in CICAT</td>
</tr>
<tr>
<td></td>
<td>Configure OMEGAMON II for SMS Menu</td>
<td>Use <strong>Install Candle Subsystem</strong> to install the KDFSMAIN module in the Candle Subsystem.</td>
<td>Online help in CICAT</td>
</tr>
<tr>
<td></td>
<td>Configure OMEGAMON II for SMS Menu</td>
<td>Use <strong>Complete the configuration</strong> to display a set of instructions for completing the configuration outside of CICAT. (The instructions are also covered in this guide.)</td>
<td>Online help in CICAT</td>
</tr>
<tr>
<td></td>
<td>Runtime Environments (RTEs) panel</td>
<td>Use <strong>L</strong> (Load libs after SMP/E) to load the target libraries to the runtime libraries for the RTE.</td>
<td>Online help in CICAT</td>
</tr>
</tbody>
</table>

### Determining what to do next

See “Checklist: Configuring Outside of CICAT” on page 30.
OMEGAMON XE for Storage Checklist: Configuring Using CICAT

Who should use these checklists

Use these checklists if you are configuring and customizing OMEGAMON XE for Storage.

OMEGAMON XE for Storage uses the data gathered by OMEGAMON II for SMS. To use OMEGAMON XE for Storage, you must use CICAT to configure both OMEGAMON XE for Storage and OMEGAMON II for SMS (You are not required to specify the values for the OMEGAMON II for SMS CUA interface.)

CICAT configuration for OMEGAMON XE for Storage

The following checklist contains the steps you perform in CICAT to begin to configure OMEGAMON XE for Storage.

The steps are listed in the order they must be performed. Use the ✔ column to check off steps as you complete them.

<table>
<thead>
<tr>
<th>✔</th>
<th>Location in CICAT</th>
<th>Configuration Step to Perform in CICAT</th>
<th>Location of Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Configure OMEGAMON II for SMS Menu</td>
<td>Use <strong>Specify configuration values</strong> to:</td>
<td>Online help in CICAT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ specify the OMEGAMON II for SMS collection values to the CMS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ if a presentation address space is required in this runtime environment, create the OMEGAMON II for SMS presentation address space (A monitored system requires at least one address space.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Configure OMEGAMON II for SMS Menu</td>
<td>Use <strong>Create runtime members</strong> to generate the job that defines the address space and installs the agent into the address space.</td>
<td>Online help in CICAT</td>
</tr>
<tr>
<td>Location in CICAT</td>
<td>Configuration Step to Perform in CICAT</td>
<td>Location of Information</td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------</td>
<td>-------------------------</td>
<td></td>
</tr>
<tr>
<td>Configure OMEGAMON II for SMS Menu</td>
<td>Use <strong>Register with local CMS</strong> to specify the CMS for OMEGAMON II for SMS.</td>
<td>Online help in CICAT</td>
<td></td>
</tr>
<tr>
<td>Configure OMEGAMON II for SMS Menu</td>
<td>If you want to archive the data collected so that you can retrieve it at a later date, use <strong>Configure persistent datastore</strong> to specify the values for the Persistent Datastore (PDS).</td>
<td>Online help in CICAT</td>
<td></td>
</tr>
<tr>
<td>Configure OMEGAMON II for SMS Menu</td>
<td>If you have not already installed the Candle Subsystem for another Candle product, use <strong>Install Candle Subsystem</strong> to install the Candle Subsystem.</td>
<td>Online help in CICAT</td>
<td></td>
</tr>
<tr>
<td>Configure OMEGAMON II for SMS Menu</td>
<td>Use <strong>Complete the configuration</strong> to display a set of instructions for completing the configuration outside of CICAT. (The instructions are also covered in this guide.)</td>
<td>Online help in CICAT</td>
<td></td>
</tr>
<tr>
<td>Configure OMEGAMON XE for Storage Menu</td>
<td>Use <strong>Register with local CMS</strong> to specify the CMS for OMEGAMON XE for Storage.</td>
<td>Online help in CICAT</td>
<td></td>
</tr>
<tr>
<td>Configure OMEGAMON XE for Storage Menu</td>
<td>Use <strong>Install Agent into local CMS</strong> to install the OMEGAMON XE for Storage agent into the same address space as the CMS.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configure OMEGAMON XE for Storage Menu</td>
<td>If you want to archive the data collected so that you can retrieve it at a later date, use <strong>Configure persistent datastore</strong> to specify the values for the Persistent Datastore (PDS).</td>
<td>Online help in CICAT</td>
<td></td>
</tr>
<tr>
<td>Configure OMEGAMON XE for Storage Menu</td>
<td>Use <strong>Complete the configuration</strong> to display a set of instructions for completing the configuration outside of CICAT. (The instructions are also covered in this guide.)</td>
<td>Online help in CICAT</td>
<td></td>
</tr>
</tbody>
</table>
### Runtime Environments (RTEs) panel

<table>
<thead>
<tr>
<th>Location in CICAT</th>
<th>Configuration Step to Perform in CICAT</th>
<th>Location of Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Runtime Environments (RTEs) panel</td>
<td>Use \textbf{L} (Load libs after SMP/E) to load the target libraries to the runtime libraries for the RTE.</td>
<td>Online help in CICAT</td>
</tr>
</tbody>
</table>

### Determining what to do next

See “Checklist: Configuring Outside of CICAT” on page 30.
Checklist: Configuring Outside of CICAT

Who should use this checklist
Use this checklist if you are configuring:

- OMEGAMON II for SMS
- OMEGAMON XE for Storage

OMEGAMON XE for Storage uses the data gathered by OMEGAMON II for SMS. To use OMEGAMON XE for Storage, you must complete the steps outside of CICAT for both OMEGAMON XE for Storage and OMEGAMON II for SMS.

Reminder about the information available
In addition to the detailed information provided in the online help in CICAT, CICAT contains a summary of the information contained in this guide.

The Complete the configuration option on the Configure OMEGAMON II for SMS menu also displays the manual steps you perform outside of CICAT to complete the configuration.
Outside configuration

The steps are listed in the order they must be performed. Use the ✔ column to check off steps as you complete them.

<table>
<thead>
<tr>
<th>✔</th>
<th>Configuration Steps to Perform Outside CICAT</th>
<th>Location of the Information You Will Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>APF-authorize the runtime load libraries that contain the load modules for the product.</td>
<td>“APF-Authorizing Libraries” on page 69</td>
</tr>
</tbody>
</table>
| ☐ | If you configured and specified the following started tasks using CICAT, copy the started tasks to the procedure library.  
- started task for the presentation address space  
- slave started task for DFSMSdss | “Copying the Procedures for the Started Tasks” on page 70 |
| ☐ | If you did not have a Candle Subsystem configured and you are configuring the Candle Subsystem for the first time:  
- define the Candle Subsystem to MVS  
- copy the procedure for the started task to your procedure library  
- update the link list library to APF authorize the load module for the Candle Subsystem  
- IPL the system to initialize the Candle Subsystem | “Completing the Configuration of the Candle Subsystem” on page 72 |
| ☐ | If you selected SNA as the communication protocol for the OMEGAMON XE for Storage and OMEGAMON II for SMS agent, copy the VTAM definitions and vary the VTAM node active. | “Copying the VTAM Definition and Varying the VTAM Node Active” on page 71 |
| ☐ | If you configured the Persistent Datastore, copy the procedures for the Persistent Datastore to the procedure library. | “Copying the Procedures for the Persistent Datastore” on page 74 |
| ☐ | If you want to collect data for virtual tape servers, activate the IBM user exits:  
- IEFU83  
- IEFU84  
- IEFU85 | “Activating Exits Required to Collect Data for Virtual Tape Servers” on page 75 |
Checklist: Configuring Outside of CICAT

<table>
<thead>
<tr>
<th>✓</th>
<th>Configuration Steps to Perform Outside CICAT</th>
<th>Location of the Information You Will Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>Verify the configuration by:</td>
<td>“Verifying the Configuration” on page 76</td>
</tr>
<tr>
<td></td>
<td>◯ varying the CMS VTAM major node active</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◯ starting the started task for the CMS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◯ starting the started tasks for the components you configured</td>
<td></td>
</tr>
<tr>
<td></td>
<td>◯ accessing the product in the CCC interface and displaying the data</td>
<td></td>
</tr>
</tbody>
</table>
### Determining what to do next

Review the following table to determine that to do next.

<table>
<thead>
<tr>
<th>Task You Want to Perform</th>
<th>Checklist or Topic to Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customize OMEGAMON II for SMS to meet the requirements at your site</td>
<td>“OMEGAMON II for SMS Checklist: Customizing Outside of CICAT” on page 34</td>
</tr>
<tr>
<td>Customize OMEGAMON XE for Storage to meet the requirements at your site</td>
<td>“OMEGAMON XE for Storage Checklist: Customizing Outside of CICAT” on page 36</td>
</tr>
<tr>
<td>Use advanced features in CICAT to replicate the product or use the product on another MVS image</td>
<td>“Using Advanced Features in CICAT” on page 38</td>
</tr>
</tbody>
</table>
OMEGAMON II for SMS Checklist: Customizing Outside of CICAT

Who should use this checklist
Use this checklist if you are customizing OMEGAMON II for SMS.

Outside customization for OMEGAMON II for SMS
The steps listed in the following checklist for customization are optional. The checklist contains only steps you perform to customize the product for your site and are not required to make the product operational.

The steps are listed in the order they must be performed. Use the ✓ column to check off steps as you complete them.

<table>
<thead>
<tr>
<th>✓</th>
<th>Customization Steps to Perform Outside CICAT</th>
<th>Location of the Information You Will Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td>Migrate your settings and thresholds from a prior release by copying the profiles from the prior version of OMEGAMON II for SMS to the equivalent RTE libraries in the current version.</td>
<td>“Migrating Your Profiles” on page 83</td>
</tr>
<tr>
<td>☐</td>
<td>Adding a session to OMEGAVIEW by using the Configuration Manager in OMEGAVIEW and specifying the name of the session on the panel.</td>
<td>“Adding a Session to OMEGAVIEW” on page 84</td>
</tr>
<tr>
<td>☐</td>
<td>Review the security requirements for the datasets used by OMEGAMON II for SMS.</td>
<td>“Security: Reviewing Requirements for Datasets” on page 85</td>
</tr>
<tr>
<td>☐</td>
<td>Setting up the internal security so that the internal security features in OMEGAMON II for SMS can be accessed.</td>
<td>“Internal Security: Specifying Internal Security” on page 87</td>
</tr>
</tbody>
</table>
## OMEGAMON II for SMS Checklist: Customizing Outside of CICAT

<table>
<thead>
<tr>
<th>✓</th>
<th>Customization Steps to Perform Outside CICAT</th>
<th>Location of the Information You Will Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>Setting the external security for access, panels, and functions using an external security product (such as NAM or RACF).</td>
<td>All the topics beginning with External Security in the chapter “Completing the Customization: OMEGAMON II for SMS” on page 81</td>
</tr>
</tbody>
</table>

### Determining what to do next

If you want to use advanced features in CICAT to replicate the product or use the product on another MVS image, see “Using Advanced Features in CICAT” on page 38.
OMEGAMON XE for Storage Checklist: Customizing Outside of CICAT

Who should use this checklist

Use this checklist if you are customizing OMEGAMON XE for Storage.

Outside customization for OMEGAMON XE for Storage

The steps listed in the following checklist for customization are optional. The checklist contains only steps you perform to customize the product for your site and are not required to make the product operational.

The steps are listed in the order they must be performed. Use the ✓ column to check off steps as you complete them.

<table>
<thead>
<tr>
<th>✓</th>
<th>Customization Steps to Perform Outside CICAT</th>
<th>Location of the Information You Will Need</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Collect and store historical data that you can later use with reporting tools.</td>
<td>“Collecting and Storing Historical Data” on page 79</td>
</tr>
<tr>
<td></td>
<td>Specify security for OMEGAMON XE.</td>
<td>“Specifying Security” on page 80</td>
</tr>
</tbody>
</table>

Determining what to do next

If you want to use advanced features in CICAT to replicate the product or use the product on another MVS image, see “Using Advanced Features in CICAT” on page 38.
Checklist: Updating the Configuration

Who should use this checklist
Use this checklist if you are customizing:
- OMEGAMON II for SMS
- OMEGAMON XE for Storage

Updating and changing the configuration
In some cases, you will need to update the configuration for a product.
The following checklist contains the steps you perform inside and outside of CICAT to update the configuration.
The steps are listed in the order they must be performed. Use the ✓ column to check off steps as you complete them.

<table>
<thead>
<tr>
<th>✓</th>
<th>Location of the Information You Will Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Make the changes you want to the configuration in CICAT and use the L (Load libs after SMP/E) select on the Runtime Environments (RTEs) panel in CICAT to load the target libraries to the runtime libraries</td>
<td></td>
</tr>
<tr>
<td>□ perform the manual steps required to complete configuration outside of CICAT (if any)</td>
<td></td>
</tr>
<tr>
<td>□ If you want to replicate the product or use the product on another MVS image, see <em>Using Advanced Features in CICAT</em></td>
<td></td>
</tr>
</tbody>
</table>

“Updating the Configuration” on page 113
Page 38
Using Advanced Features in CICAT

Who should use this topic

Use the information in this topic if you are configuring and customizing both:

- OMEGAMON II for SMS
- OMEGAMON XE for Storage

Determine the advanced feature to use

Use the following advanced features if you

- have completed the appropriate checklist for configuring products
- have completed the appropriate checklist for verifying that the configuration is complete

<table>
<thead>
<tr>
<th>Task</th>
<th>Advanced Feature</th>
<th>Location of Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port an existing RTE to one or more MVS images, without reconfiguring the RTE for those MVS images</td>
<td>System Variable Support</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
</tr>
<tr>
<td>Replicate and transport an RTE to one or more MVS images</td>
<td>Batch Mode Processing</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
</tr>
</tbody>
</table>
Overview

Review this chapter only if you are not familiar with Candle or the process for installing and configuring Candle products.

Chapter contents

Determining the Topics to Use in this Chapter ................. 40
Candle Terminology .......................................................... 41
Processes for Installing, Configuring, and Maintaining Products .......... 42
Background about CICAT Modes: Interactive and Batch .............. 47
Determining the Topics to Use in this Chapter

Determining the topics to use in this chapter

This chapter provides background information about Candle terminology, process, and the Candle Installation and Configuration Assistance Tool (CICAT).

If you are not familiar with the content. Review all of the topics. These topics include:

- Candle terminology
- the process for installing products and the process for installing maintenance (including the similarities and differences between the two processes)
- the process for installing and configuring products and maintenance, and where the steps in the process are performed (including examples of the tasks performed during each of the steps in the process and where to locate the information you will need)
- modes available for working in CICAT and the tasks they are used to complete (Interactive Mode and Batch Mode)
**Candle Terminology**

**Terminology**

The following list contains some of the terms used in this guide and defines those terms.

<table>
<thead>
<tr>
<th><strong>Candle Installation and Configuration Assistance Tool (CICAT)</strong></th>
<th>Tool used to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>■ install new products or new versions of products</td>
</tr>
<tr>
<td></td>
<td>■ install maintenance for existing products</td>
</tr>
<tr>
<td></td>
<td>■ begin the configuration of products (if necessary)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Component</strong></th>
<th>Product or feature provided by Candle that is a separate started task</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Configuring</strong></th>
<th>Making a product operational by completing the configuration of the product inside CICAT and completing the manual steps required outside of CICAT</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Cumulative Maintenance</strong></th>
<th>Maintenance through a given date that is customer approved</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Customizing</strong></th>
<th>Modifying the defaults for options and settings and other changes that reflect the needs of your site</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Installing</strong></th>
<th>Loading the contents of the Candle product tape and maintenance tapes and installing a product</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Migrating</strong></th>
<th>Preserving the customized data so that you can use it in a newer version of the product</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Preventive Maintenance</strong></th>
<th>Maintenance through a given date that is customer approved, but not yet included in Cumulative Maintenance</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Runtime Environments (RTEs)</strong></th>
<th>A group of runtime libraries that execute Candle products on an MVS image</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Runtime libraries</strong></th>
<th>Libraries in the RTE that are used by the product when the product is started</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Target libraries</strong></th>
<th>SMP/E controlled libraries that contain the source from the distribution media</th>
</tr>
</thead>
</table>
Processes for Installing, Configuring, and Maintaining Products

Processes for installing products and maintenance: a comparison

The following illustration shows the steps in the process and compares the steps you perform when:

- installing new products or new versions of existing products
- installing maintenance for existing products

<table>
<thead>
<tr>
<th>Step in the Process</th>
<th>Required to Install Products?</th>
<th>Required to Install Maintenance?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepare to install products and maintenance</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Load and start CICAT</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Install products and components</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Install maintenance (if any)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Begin to configure the products and components</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Complete the configuration of products and components by performing the manual steps required to make the product operational</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Once configured, complete the manual steps to customize the product for your site (if any)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>If you want to replicate Candle products or use Candle products on other MVS images, use some of the advanced features in CICAT designed to make this implementation easier</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Processes for installing and configuring products: a comparison

The following illustration shows the steps in the process and compares the steps you perform when:

- installing new products or new versions of existing products
- installing maintenance for existing products

<table>
<thead>
<tr>
<th>Step in the Process</th>
<th>Performed in CICAT?</th>
<th>Performed Outside of CICAT?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepare to install products and maintenance</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Load and start CICAT</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Install products and components</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Install maintenance (if any)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Begin to configure the products and components</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Complete the configuration of products and components by performing the manual steps</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>to make the product operational</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Once configured, complete the manual steps to customize the product for your site</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>(if any)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If you want to replicate Candle products or use Candle products on other MVS images,</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>use some of the advanced features in CICAT designed to make this implementation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>easier</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Example tasks in the process

The table shows the steps in the process for installing, maintaining, and configuring products and provides some examples of tasks you perform.

Table 2. Example Tasks for Installing, Maintaining, and Configuring

<table>
<thead>
<tr>
<th>Step in the Broad Process</th>
<th>Examples of Tasks</th>
</tr>
</thead>
</table>
| Prepare to install products and maintenance| - Review the software and space requirements for CICAT and the products and components you want to install  
- Perform optional steps to prepare, such as backup your existing data sets |
| Load and start CICAT                       | - Review the files on the tapes and the information in the DOCFILE  
- Load and start CICAT using the distribution media |
| Install products and components            | - Specify the high-level qualifiers for the product libraries  
- Allocate the product libraries  
- Receive and apply product components |
| Install maintenance (if any)               | - Review information about the PTFs provided in the DOCFILE  
- Receive and apply product maintenance |
| Begin to configure the product and components| - Inside CICAT, create or select the RTE that will contain the product you want to configure  
- Inside CICAT, specify basic configuration values for the product |
| Complete the configuration of products and components by performing the manual steps required to make the product operational | - Outside of CICAT, manually copy members and libraries required by the product  
- Outside of CICAT, verify the configuration by starting the product and displaying data in the user interface |
| Once configured, complete the manual steps to customize the product for your site (if any) | - For some products, specify the security settings  
- For some products, specify the monitoring options specific to your site |
Processes for Installing, Configuring, and Maintaining Products

<table>
<thead>
<tr>
<th>Step in the Broad Process</th>
<th>Examples of Tasks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside of CICAT, prepare to install products and maintenance</td>
<td>Use Batch Mode to replicate and transport RTEs</td>
</tr>
<tr>
<td>Outside of CICAT, load and start CICAT</td>
<td>Port an existing RTE to one or more MVS images without reconfiguring the RTE for those MVS images</td>
</tr>
<tr>
<td>Using CICAT, install products and components</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
</tr>
<tr>
<td>Using CICAT, install maintenance (if any)</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
</tr>
<tr>
<td>Using CICAT, begin to configure the products and components</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
</tr>
</tbody>
</table>

Where to find the information you will need

The table shows the steps in the process and where to locate the information you will need.

Table 3. Locating Information for Installing and Configuring

<table>
<thead>
<tr>
<th>Step in the Broad Process</th>
<th>Where to Locate Information about Procedures</th>
<th>Where to Locate Information about Specific Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside of CICAT, prepare to install products and maintenance</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
</tr>
<tr>
<td>Outside of CICAT, load and start CICAT</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
</tr>
<tr>
<td>Using CICAT, install products and components</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
<td>Online help in CICAT</td>
</tr>
<tr>
<td>Using CICAT, install maintenance (if any)</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
<td>Online help in CICAT</td>
</tr>
<tr>
<td>Using CICAT, begin to configure the products and components</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
<td>Online help in CICAT</td>
</tr>
<tr>
<td>Step in the Broad Process</td>
<td>Where to Locate Information about Procedures</td>
<td>Where to Locate Information about Specific Values</td>
</tr>
<tr>
<td>--------------------------</td>
<td>---------------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
</tbody>
</table>
| Outside of CICAT, complete the configuration of products and components by performing the manual steps required to make the product operational | This guide  
The **Complete the configuration** option on the Configure OMEGAMON XE for Storage and OMEGAMON II for SMS Menu | Online help in CICAT |
| Outside of CICAT, complete the manual steps to customize the product for your site (if any) | This guide  
The **Complete the configuration** option on the Configure OMEGAMON XE for Storage and OMEGAMON II for SMS Menu | Online help in CICAT |
| If you want to replicate Candle products or use products on other images, use some of the advanced features in CICAT | *Installation & Configuration of Candle Products on OS/390 and z/OS* | Online help in CICAT |
Background about CICAT Modes: Interactive and Batch

Modes provided in CICAT

CICAT has two modes:
- Interactive Mode
- Batch Mode

The following table provides a description for each of the two modes.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
</table>
| Interactive | ISPF panel-driven facility that assists you in specifying parameters and tailoring jobs for  
  - installing and configuring new products  
  - installing and configuring new versions of products  
  - installing and configuring maintenance |
| Batch   | Facility that creates a single batch job that you can use to build, configure, and load an RTE. This single job performs all of the same RTE processing as the interactive CICAT.  
  Batch Mode is a simple and useful way of replicating RTEs to other MVS systems. |
Background about CICAT Modes: Interactive and Batch
Plan Your Configuration

Overview

This chapter contains information that you should review before configuring products and maintenance. This chapter:

- contains background about the products and components
- helps you determine the components to configure

Chapter contents

Determining the Topics to Use in this Chapter ......................... 50
Candle Products and Components ........................................ 51
Details about the Candle Products and Components .................. 54
Determining the Components to Install and Configure ............... 57
Determining the Topics to Use in this Chapter

Relationship of the topics in this chapter and the checklists

This chapter contains topics that correspond to the checklist Checklist: Prerequisites for Configuring Products in Chapter 1.

Determining the topics to use in this chapter

If you are not sure of the topics you will need in this chapter or you are not using a checklist, review the matrix to determine the pages to use in this chapter. The R indicates that topic is required. The O indicates the topic is optional.

<table>
<thead>
<tr>
<th>Page Numbers for Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>51</td>
</tr>
</tbody>
</table>

- Determine the products and components to configure and whether or not the products and components have manual steps performed outside of CICAT: O
- Review details provided for some of the products and components: O
- Review information about Candle products and components: O
Candle Products and Components

Background about how CICAT installs products and components
When you use CICAT, CICAT automatically installs all the required and optional products and components.
In most cases, you must also configure the components to make them available.

Background about the products and components
The following table shows all the product and components available with both:

- OMEGAMON II for SMS
- OMEGAMON XE for Storage

The components are listed in alphabetical order.

Table 4. Overview of the Products and Components

<table>
<thead>
<tr>
<th>Component Name or Category</th>
<th>Purpose</th>
<th>Platform(s) for Product or Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candle Command Center® interface</td>
<td>Component that is the graphical user interface (GUI) you use to display and work with data provided by the CMS or agent. These include: the Windows based GUI Candle Management Workstation® (CMW™) that communicates with the CMS the Java based GUI CandleNet Portal® (CNP) that communicates with the CMS (The interface can be run in desktop or browser mode.) the Java based GUI CandleLight Workstation that communicates directly with an agent one agent at a time (automatically installed with the CMW).</td>
<td>Windows NT (Intel-based) Windows 98 Windows 2000</td>
</tr>
</tbody>
</table>
### Candle Products and Components

**OMEGAMON XE**

Component that monitors systems, subsystems, and applications on the system where they are installed. OMEGAMON XE:
- collects data and monitors performance
- provide data and performance information to the CMS
- receive instructions from the CMS
- issue commands to the system or application you are monitoring

These components can include:
- OMEGAMON XEs (Collect performance and analysis data.)
- Agents (Collect performance and analysis data.)
- Alert Adapters (Monitors alerts and relay the information from console or message logs, network management products, and system management product.)
- Alert Emitters (Monitors events or exceptions in products running under the control of the CMS and relay them back for corrective action (if applicable).)
- Gateways (Communicate events to a management application running on a supported platform using a network service.)

**Candle Management Server (CMS)**

Component that:
- consolidates the data collected by the agents and distributes the data to the CCC interface
- in some cases, receives commands from the CCC interface and distributes them to the appropriate agent
- stores historical data and prototypes for configuration in the form of seed data

<table>
<thead>
<tr>
<th>Component Name or Category</th>
<th>Purpose</th>
<th>Platform(s) for Product or Component</th>
</tr>
</thead>
</table>
| OMEGAMON XE                | Component that monitors systems, subsystems, and applications on the system where they are installed. OMEGAMON XE:  
- collects data and monitors performance  
- provide data and performance information to the CMS  
- receive instructions from the CMS  
- issue commands to the system or application you are monitoring  
These components can include:  
- OMEGAMON XEs (Collect performance and analysis data.)  
- Agents (Collect performance and analysis data.)  
- Alert Adapters (Monitors alerts and relay the information from console or message logs, network management products, and system management product.)  
- Alert Emitters (Monitors events or exceptions in products running under the control of the CMS and relay them back for corrective action (if applicable).)  
- Gateways (Communicate events to a management application running on a supported platform using a network service.) | Platform appropriate for the system or software being monitored |
| Candle Management Server (CMS) | Component that:  
- consolidates the data collected by the agents and distributes the data to the CCC interface  
- in some cases, receives commands from the CCC interface and distributes them to the appropriate agent  
- stores historical data and prototypes for configuration in the form of seed data | Windows NT (Intel-based)  
- Windows 98  
- Windows 2000  
- MVS  
- UNIX |
<table>
<thead>
<tr>
<th>Component Name or Category</th>
<th>Purpose</th>
<th>Platform(s) for Product or Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candle Subsystem</td>
<td>Component that is an MVS subsystem that runs in its own address space that provides dynamic I/O activity to the: ■ OMEGAMON IIs ■ OMEGAMON XEs</td>
<td>MVS</td>
</tr>
<tr>
<td>DFSMSdss slave</td>
<td>Started task in it own address space the performs the DFSMSdss functions</td>
<td>MVS</td>
</tr>
<tr>
<td>OMEGAMON II</td>
<td>Component that collects and displays data in the OMEGAMON II user interface(s). These include: ■ the menu driven CUA interface that is IBM SAA/CUA compliant ■ for some OMEGAMON IIs, the command driven Classic interface</td>
<td>MVS</td>
</tr>
<tr>
<td>OMEGAVIEW®</td>
<td>Product that can be used to display data from all the OMEGAMON IIs in a single location</td>
<td>MVS</td>
</tr>
<tr>
<td>Persistent Datastore (PDS)</td>
<td>Component that records and stores historical data that you can access using a CCC interface</td>
<td>MVS</td>
</tr>
</tbody>
</table>
Details about the relationships and types of CMSs

The following table shows the types of CMSs, the relationship for the type, and a description of the relationship.

**Table 5. Details about the Relationships and Types of CMSs**

<table>
<thead>
<tr>
<th>Relationship</th>
<th>Candle Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMS to CMS relationship</td>
<td>Hub</td>
<td>CMS that:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- receives data from agents and Remote CMSs in the environment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- communicates data and to and receives command from an interface</td>
</tr>
<tr>
<td></td>
<td>Remote</td>
<td>CMS that:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- receives data from agents</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- communicates data to the Hub CMS only (It does not communicate directly with an interface.)</td>
</tr>
<tr>
<td>CMS to agent relationship</td>
<td>Local</td>
<td>CMS that is installed in the same RTE as the agent</td>
</tr>
<tr>
<td></td>
<td>Non-local</td>
<td>CMS that is installed on:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- MVS, but is not installed and configured in the same RTE as the agent.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- MVS, but is not installed and configured in the same CSI as the agent.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- a platform other than MVS (such as UNIX)</td>
</tr>
</tbody>
</table>
Details about the Candle Products and Components

Relationship of OMEGAMON XE for Storage to OMEGAMON II for SMS

OMEGAMON XE for Storage uses the data gathered by OMEGAMON II for SMS. To use OMEGAMON XE for Storage, you must:

- use CICAT to configure both OMEGAMON XE for Storage and OMEGAMON II for SMS (You are not required to specify the values for the OMEGAMON II for SMS CUA interface.)
- complete the steps outside of CICAT for both OMEGAMON XE for Storage and OMEGAMON II for SMS

Details about OMEGAMON XE for Storage

OMEGAMON XE for Storage is a product that you can use to monitor the performance and usage of your storage.

The data collected by OMEGAMON XE for Storage can then be displayed using CandleNet Portal®.

For example, you can use OMEGAMON XE for Storage to monitor the performance of:

- raid ranks
- virtual tape systems
- channel paths
- storage related applications
Details about OMEGAMON II for SMS

OMEGAMON II for SMS is a product that you can use to monitor the performance of your storage.

The data collected by OMEGAMON II for SMS can then be displayed using the CUA interface.

For example, you can use OMEGAMON XE for Storage and OMEGAMON II for SMS to monitor the performance of:

- channels and logical control units
- tape drives, libraries, and groups
- storage related applications
- storage groups and space

OMEGAMON II for SMS also includes a VTAM mode that you can use to run OMEGAMON II sessions from a VTAM terminal without an intermediate online application, such as TSO. You can set automatic update mode so that the screen refreshes automatically.

VTAM mode is required to run the CUA interface and allows all VTAM terminal users to share a single copy of OMEGAMON II.
Determining the Components to Install and Configure

Components that can be shared by more than one product
In some cases, a product or component can be shared by more than one product. If you have already installed and configured these types of components, you can use the existing component.

For example, you can use the Candle Management Server (CMS) with more than one Candle product.

If you are going to use an existing component, the component must be current. You must have installed and configured the component for another Candle product at the same level.

Determining the products and components you will need
The following table shows the products and components available with the products. The table also indicates:

- which products use the components and whether or not they are required (R) or optional (O) (A blank indicates that the product does not use the component.)
- whether or not the component can be shared
- additional information that might help you decide whether or not you want to configure the component (if any)

The products and components are listed in the order they are configured.

Table 6. Determining the Products and Components You Will Need

<table>
<thead>
<tr>
<th>Component Name or Category</th>
<th>OMEGAMON II for SMS</th>
<th>OMEGAMON XE for Storage</th>
<th>Can be Shared?</th>
<th>Additional Information (If Any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candle Management Server (CMS)</td>
<td>R</td>
<td>R</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>
## Determining the Components to Install and Configure

<table>
<thead>
<tr>
<th>Component Name or Category</th>
<th>OMEGAMON II for SMS</th>
<th>OMEGAMON XE for Storage</th>
<th>Can be Shared?</th>
<th>Additional Information (If Any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMEGAMON II</td>
<td>R</td>
<td>R</td>
<td>Y</td>
<td>This component is also called the presentation address space.</td>
</tr>
<tr>
<td>DFSMSdss slave</td>
<td>R</td>
<td>R</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Candle Subsystem</td>
<td>R</td>
<td>R</td>
<td>Y</td>
<td>Candle recommends that you use one Candle Subsystem for all the Candle products and components you install and configure.</td>
</tr>
<tr>
<td>OMEGAVIEW®</td>
<td>O</td>
<td></td>
<td>Y</td>
<td>Configure this component only if you want to connect a session to OMEGAVIEW. Candle recommends installing OMEGAVIEW and OMEGAMONs in the same CSI. If you require separate CSIs, call Candle Customer Support.</td>
</tr>
<tr>
<td>OMEGAMON XE</td>
<td>R</td>
<td></td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Persistent Datastore (PDS)</td>
<td>O</td>
<td>O</td>
<td>N</td>
<td>For both products, this component must be configured with the CMS.</td>
</tr>
<tr>
<td>Candle Command Center® interface</td>
<td>R</td>
<td></td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>
Determining whether or not you have to configure the products and components

The table shows the components and indicates whether or not you must:

- configure the component using CICAT to make the component available to the product
- perform manual steps outside of CICAT to configure the component to make it available to the product.

The products and components are listed in the order they are configured.

Table 7. Determining the Products and Components to Configure

<table>
<thead>
<tr>
<th>Component Name or Category</th>
<th>Configured Using CICAT?</th>
<th>Requires Manual Steps Outside of CICAT?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candle Management Server (CMS)</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>OMEGAMON II</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>DFSMSdss slave</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Candle Subsystem</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>OMEGAVIEW®</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>OMEGAMON XE</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Persistent Datastore (PDS)</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Candle Command Center® interface</td>
<td>N</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Determining the Components to Install and Configure

Locating information about configuring the product or component

The table shows where you can locate information about configuring the product or component if it is not included in this guide.

The products and components are listed in the order they are configured.

**Table 8. Locating Information about Configuring the Product or Component**

<table>
<thead>
<tr>
<th>Component Name or Category</th>
<th>Location of Information for Configuring the Product or Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candle Management Server (CMS)</td>
<td>Installation &amp; Configuration of Candle Products on OS/390 and z/OS</td>
</tr>
<tr>
<td>OMEGAMON II</td>
<td>This guide</td>
</tr>
<tr>
<td>DFSMSdss slave</td>
<td>This guide</td>
</tr>
<tr>
<td>Candle Subsystem</td>
<td>This guide</td>
</tr>
<tr>
<td>OMEGAVIEW®</td>
<td>OMEGAVIEW Configuration and Customization Guide</td>
</tr>
<tr>
<td>OMEGAMON XE</td>
<td>This guide</td>
</tr>
<tr>
<td>Persistent Datastore (PDS)</td>
<td>Historical Data Collection Guide for OMEGAMON XE and CandleNet Command Center</td>
</tr>
<tr>
<td>Candle Command Center® interface</td>
<td>Installing Candle Products on Windows and OS/2</td>
</tr>
</tbody>
</table>
Overview

This chapter provides detailed information about
- starting CICAT
- accessing the menu in CICAT for configuring the product
- using CICAT defaults and restrictions, and some of the commands available to assist while using CICAT to install products and maintenance

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Starting CICAT ................................................................. 63
Accessing the Menu for Configuring the Product ....................... 64
Using CICAT ................................................................. 65
Determining the Topics to Use in this Chapter

Relationship of the Topics in this Chapter and the Checklists

This chapter contains topics that correspond to the tasks in Checklist: Starting CICAT and Accessing the Menu for Configuration in Chapter 1.

This chapter also contains a topic that covers some additional information about using CICAT (such as CICAT defaults and commands).

Determining the topics to use in this chapter

If you are not sure of the topics you will need in this chapter or you are not using a checklist, review the matrix to determine the pages to use in this chapter. The R indicates that topic is required. The O indicates the topic is optional.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page Numbers for Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start CICAT</td>
<td>R</td>
</tr>
<tr>
<td>Access the menu for configuring the product in CICAT</td>
<td>R</td>
</tr>
<tr>
<td>Review information about restrictions, defaults, commands, and functions</td>
<td>O</td>
</tr>
</tbody>
</table>
Start CICAT

Follow these steps to start CICAT.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Log onto a TSO session.</td>
</tr>
<tr>
<td>2</td>
<td>Invoke ISPF.</td>
</tr>
<tr>
<td>3</td>
<td>GO to a TSO command line. (In most cases, this is option 6 on the ISPF Primary Option Menu.)</td>
</tr>
<tr>
<td>4</td>
<td>Enter the following command: &lt;br&gt;<strong>EX 'shilev.INSTLIB'</strong>&lt;br&gt;(where shilev is the high-level qualifier you specified for CICAT) <strong>Result:</strong> CICAT first displays the copyright panel and then the CICAT Main Menu. (Both the copyright panel and the CICAT Main Menu display the version and release of CICAT.)</td>
</tr>
</tbody>
</table>
Accessing the Menu for Configuring the Product

Select the product to configure and accessing the menu

Follow these steps to access the Configure OMEGAMON XE for Storage and OMEGAMON II for SMS Menu.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>If this is the first time you have used CICAT V300 to configure a product, from the CICAT Main Menu select <strong>Configure products &gt; Set up configuration environment</strong>.</td>
</tr>
<tr>
<td>2</td>
<td>From the CICAT Main Menu, select <strong>Configure products &gt; Select product to configure</strong>. (Only those packages that are eligible to be configured are listed on this panel.)</td>
</tr>
<tr>
<td>3</td>
<td>On the Product Selection Menu, specify <strong>S</strong> to select a product to be configured. You can only select one product at a time for configuration. <strong>Result</strong>: CICAT displays the Runtime Environments (RTEs) panel.</td>
</tr>
</tbody>
</table>
| 4    | On the Runtime Environments (RTEs) panel, specify:  
  - to use an existing RTE, the C (Configure) select  
  - to create a new RTE, the A (Add), B (Build libraries), and C (Configure) selects  
  **Result**: CICAT displays the Configure OMEGAMON XE for Storage and OMEGAMON II for SMS Menu. |
Using CICAT

 Defaults provided with CICAT

 Whenever possible, CICAT provides defaults for fields and options. These defaults

 ■ when provided, should be sufficient to complete the installation of
   products and maintenance
 ■ can be changed to values specific to your site

 Assistance provided in CICAT

 Whenever possible, CICAT checks the values you specify and verifies that you
 have specified the required values. If CICAT detects an error or omission, it
displays a short message.

 Display requirements in ISPF

 If you are using a 3270 Model 2 (24 x 80) display, you must turn off the
 pre-defined function (PF) keys so that the CICAT panels are not truncated.
To turn off the pre-defined function keys, type PFSHOW on any command
line and press Enter until the function keys no longer appear.

 Restrictions

 The length of the high-level qualifier for shilev:INSTLIB must be 26 characters
 or less.

 You cannot use

 ■ the ampersand character (&) as input data in CICAT interactive or batch
   mode
 ■ the ISPF feature for edit recovery
   (If the ISPF RECOVERY ON command is entered, edits will produce a
    recovery error message. Enter the RECOVERY OFF command to
    suppress the error messages.)
**Commands and functions**

The following list shows some of the commands and functions available in CICAT, that you can use for navigation and to display information.

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced key</td>
<td>On some panels for configuring products, displays panels where you can specify specialized values (such as values for the Persistent Datastore for a CMS).</td>
</tr>
<tr>
<td>End key</td>
<td>Returns to the previous panel.</td>
</tr>
<tr>
<td>Enter key</td>
<td>Accepts the values you have specified and displays the next panel in the process.</td>
</tr>
<tr>
<td>HELP command</td>
<td>Displays information about a panel or the extended description for a message.</td>
</tr>
<tr>
<td>README command</td>
<td>Displays the README for the current version of CICAT.</td>
</tr>
<tr>
<td>README APP command</td>
<td>Displays information about default applids for started tasks and VTAM, and how CICAT processes VTAM applids.</td>
</tr>
<tr>
<td>README ERR command</td>
<td>Displays a list of CLIST error codes and descriptions (for both interactive and batch mode).</td>
</tr>
<tr>
<td>UTIL command</td>
<td>Displays the Installation Services and Utilities menu.</td>
</tr>
</tbody>
</table>
Completing the Configuration Outside of CICAT

Introduction

This chapter contains information about the manual steps you must perform outside of CICAT to complete the configuration of OMEGAMON XE for Storage and OMEGAMON II for SMS. This chapter provides:

- the step-by-step instructions for completing the configuration outside of CICAT
- the procedure to follow to verify the configuration of the OMEGAMON XE for Storage and OMEGAMON II for SMS agent

Chapter contents

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Copying the Procedures for the Started Tasks ....................... 70
Copying the VTAM Definition and Varying the VTAM Node Active .... 71
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Copying the Procedures for the Persistent Datastore ............... 74
Activating Exits Required to Collect Data for Virtual Tape Servers .... 75
Verifying the Configuration ........................................... 76
Determining the Topics to Use in this Chapter

Relationship of the topics in this chapter and the checklists

This chapter contains topics that correspond to these tasks in Checklist: Configuring Outside of CICAT in Chapter 1.

Determining the topics to use in this chapter

If you are not sure of the topics you will need in this chapter or you are not using a checklist, review the matrix to determine the pages to use in this chapter.

OMEGAMON XE for Storage uses the data gathered by OMEGAMON II for SMS. To use OMEGAMON XE for Storage, you must complete the steps outside of CICAT for both OMEGAMON XE for Storage and OMEGAMON II for SMS.

In some cases, a task does not need to be completed if a components is not configured. The R indicates that you must review the topic to determine whether or not you must complete the task. The O indicates that the topic is optional.

<table>
<thead>
<tr>
<th>Page Numbers for Topics</th>
<th>69</th>
<th>70</th>
<th>71</th>
<th>72</th>
<th>74</th>
<th>75</th>
<th>76</th>
</tr>
</thead>
<tbody>
<tr>
<td>You are configuring OMEGAMON XE for Storage</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>O</td>
<td>R</td>
</tr>
<tr>
<td>You are configuring OMEGAMON II for SMS</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>O</td>
<td>R</td>
</tr>
</tbody>
</table>
APF-Authorizing Libraries

Background about APF-authorization
The load libraries must be APF-authorized or some of the functions in the product may not be available.

You APF-authorize the load libraries by adding them to your list of APF-authorized libraries.

APF-authorizing the libraries
If the RTE is sharing with SMP/E, APF-authorize the target load libraries:

- `thilev.midlev.TKANMOD`
- `thilev.midlev.TKANMODL`

For all other RTEs, APF-authorize the runtime load libraries:

- `rhilev.midlev.RKANMOD`
- `rhilev.midlev.RKANMODL`

If one library in a steplib or joblib concatenation requires APF-authorization, all the libraries in the concatenation require APF-authorization.
Copying the Procedures for the Started Tasks

Background about the started tasks
When you install and configure a product or component using CICAT, CICAT creates the started task procedures.
You must copy the started task procedures to your procedure library (PROCLIB) to complete the configuration.

Copying the procedures for the started tasks to your procedure library
You must copy the started task procedures for the product from rhliev.midlev.RKANSAM to your procedure library (PROCLIB).
Completing the Configuration Outside of CICAT 71

Copying the VTAM Definition and Varying the VTAM Node Active

Background about the VTAM Definitions and the VTAM Major Node

If you configured OMEGAMON XE for Storage and OMEGAMON II for SMS to use SNA as the communication protocol, CICAT created VTAM definitions.

To complete the configuration, you must:

- copy the VTAM definition to VTAMLST
- vary the VTAM major node active

Copying VTAM Definitions and Varying the VTAM Major Node Active

Follow this procedure to complete the configuration for SNA communication protocol.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Copy the VTAM definition from rhilev,midlev,RKANSAM to VTAMLST. The VTAM definition in rhilev,midlev,RKANSAM has the same name you specified for the VTAM major node using CICAT.</td>
</tr>
<tr>
<td>2</td>
<td>Vary the VTAM major node active using the following command. <strong>V NET,ACT,ID=cccccccccc</strong> The ccccccccccc indicates the name for the VTAM major node you specified using CICAT.</td>
</tr>
</tbody>
</table>
Completing the Configuration of the Candle Subsystem

Defining the Candle Subsystem to OS/390

You must update SYS1.PARMLIB(IEFSSNcc) to define the Candle Subsystem to OS/390. Use the table to determine the method to use.

Table 9. Methods for Defining the Candle Subsystem to OS/390

<table>
<thead>
<tr>
<th>Method You Want to Use</th>
<th>Action to Perform</th>
<th>Additional Information</th>
</tr>
</thead>
</table>
| Update the member by adding statements | In SYS1.PARMLIB(IEFSSNcc), specify one of these statements.  
- subsystemID, KCNDLINT  
- subsystemID,KCNDLINT, ‘SSPROC=procedurename’  
For example, if you are using the default subsystem ID CNDL and the default procedure CANSCN, you would specify one of these statements.  
- CNDL,KCNDLINT  
- CNDL,KCNDLINT,’SSPROC=CANSCN’ | The subsystem ID and the procedure name must be unique. You cannot use the same name for both. |
| Copy the sample statements provided by CICAT | Copy the sample statements from rhilev.midlev.RKANSAM(KCNDLSSI) to SYS1.PARMLIB(IEFSSNcc) | The subsystem ID and the procedure name must be unique. You cannot use the same name for both.  
The sample statements also automatically start the Candle Subsystem. |
Completing the Configuration of the Candle Subsystem

Copying the procedure for the started task to your procedure library

Copy the started task procedure for the Candle Subsystem from rhilev.midlev.RKANSAM to your procedure library (PROCLIB).

Updating the link list library

If you want the Candle Subsystem to be available when you IPL the system, you must make the KCNDLINT load module available in an APF-authorized link list library.

<table>
<thead>
<tr>
<th>Method You Want to Use</th>
<th>Action to Perform</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add the library to the OS/390 link list</td>
<td>Add the rhilev.midlev.RKANMOD data set to the OS/390 link list</td>
</tr>
<tr>
<td>Copy the load module</td>
<td>Copy rhilev.midlev.RKANMOD(KCNDLINT) to an APF-authorized link list library</td>
</tr>
</tbody>
</table>

IPL the system to initialize the Candle Subsystem

You must IPL the system to initialize the Candle Subsystem in these cases.

- You do not have a Candle Subsystem installed and this is the first time you have installed the Candle Subsystem.
- You have applied maintenance to an existing Candle Subsystem.

After you IPL the system, the following messages should appear in the SYSLOG.

- CNDL1841 (indicating that the Candle Subsystem has been initialized)
- CNDL001I, CNDL190I, CNDL034I, and CNDL027I (indicating that the Candle Subsystem has started either automatically or by using the START command)
Copying the Procedures for the Persistent Datastore

Background about the procedures for the Persistent Datastore

The Persistent Datastore is used to store the data for historical collection. When you install and configure the Persistent Datastore using CICAT, CICAT creates the procedures for the Persistent Datastore.

If you decided to configure the PDS, you must copy these procedures to your procedure library (PROCLIB) to complete the configuration.

Copying the procedures for the PDS to your procedure library

If you configured the PDS, you must copy the following procedures from rhilev.midlev.RKANSAM to your procedure library (PROCLIB).

- `pdsmprefix1`
- `pdsmprefix2`

The value for `pdsmprefix` is the unique prefix you specified for the maintenance procedure using CICAT. The default is KPDPROC.
Activating Exits Required to Collect Data for Virtual Tape Servers

If you want to use the product to collect data for a virtual tape server, you must activate the following IBM installation exits:

- IEFU83
- IEFU84
- IEFU85

If you do not activate these exits, the product displays the following message when you try to display virtual tape server data.

There is no applicable data to display.

The product also writes the following message to the RKLVLOG.

KDFD176E KDFDVTSI - SMF EXIT cccccc NOT DEFINED.
Verifying the Configuration

Follow this process to verify the configuration by starting the product.

FIGURE 1. Process for Verifying the Configuration: CMS Installed on MVS

If you selected SNA as the communication protocol for the product instead of TCP/IP and the CMS is not already running, vary the CMS VTAM major node active.

If the CMS is not already running, start the started task for the CMS.

If the components or products you configured using OMEGAMON II or OMEGAMON XE are not running, start the started tasks for those components. (For example, start the started task for the Candle Subsystem.)

Using the appropriate CandleNet Command Center interface, connect to the Hub CMS and use the interface to verify that the data for the product is being displayed.
Introduction

This chapter contains information about the manual steps you must perform outside of CICAT to complete the customization for OMEGAMON XE for Storage only.

Chapter contents

- Determining the Topics to Use in this Chapter ........................................ 78
- Collecting and Storing Historical Data ..................................................... 79
- Specifying Security .................................................................................. 80
Determining the Topics to Use in this Chapter

Relationship of the topics in this chapter and the checklists

This chapter contains topics that correspond to these checklists
“OMEGAMON XE for Storage Checklist: Customizing Outside of CICAT” on page 36 in Chapter 1.

Determining the topics to use in this chapter

If you are not sure of the topics you will need in this chapter or you are not using a checklist, review the matrix to determine the pages to use in this chapter.

The table contains only steps you perform to customize the product for your site and are not required to make the product operational. The tasks listed in the following table for customization are optional (O).

<table>
<thead>
<tr>
<th>Page Numbers for Topics</th>
<th>79</th>
<th>80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collect and store historical data that you can later use with reporting tools</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Specify security for OMEGAMON XE</td>
<td></td>
<td>O</td>
</tr>
</tbody>
</table>
Collecting and Storing Historical Data

Collecting and storing historical data

You can customize OMEGAMON XE for Storage and OMEGAMON II for SMS to collect and store historical data. You can then use:

- a CandleNet Command Center interface to display short term history
- a reporting tool to display the long term history stored using one of the available methods

For information about collecting and storing historical data, see the *Historical Data Collection Guide for OMEGAMON XE and CandleNet Command Center*. 
Specifying Security

Specifying Security

Specifying security

Security for OMEGAMON XE for Storage and OMEGAMON II for SMS is controlled using the Candle Management Workstation® (CMW). For example, user access and user authorities are granted using the CMW.

For information about specifying security, see the Administering OMEGAMON Products: CandleNet Portal.
Completing the Customization: OMEGAMON II for SMS

Introduction

This chapter contains information about the manual steps you must perform outside of CICAT to complete the customization for OMEGAMON II for SMS only.

Chapter contents

Determining the Topics to Use in this Chapter ......................... 82
Migrating Your Profiles ................................................. 83
Adding a Session to OMEGAVIEW ....................................... 84
Security: Reviewing Requirements for Datasets ....................... 85
Internal Security: Specifying Internal Security ....................... 87
External Security: Types of Security ................................. 90
External Security: Product Level ....................................... 92
External Security: Access Level ....................................... 93
External Security: Function Level ..................................... 95
External Security: Resource Tables ................................... 98
External Security: Defining for RACF ............................... 100
External Security: Defining for CA-ACF2 ............................ 105
External Security: Defining CA-TOP SECRET ...................... 109
External Security: Implementing When Complete .................. 112
Determining the Topics to Use in this Chapter

Relationship of the topics in this chapter and the checklists

This chapter contains topics that correspond to the tasks in “OMEGAMON II for SMS Checklist: Customizing Outside of CICAT” on page 34 in Chapter 1.

Determining the topics to use in this chapter

If you are not sure of the topics you will need in this chapter or you are not using a checklist, review the matrix to determine the pages to use in this chapter.

The table contains only steps you perform to customize the product for your site and are not required to make the product operational. The tasks listed in the following table for customization are optional (O).

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page Numbers for Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>83</td>
</tr>
<tr>
<td>Add a session so that you can access OMEGAVIEW</td>
<td></td>
</tr>
<tr>
<td>Migrate your profiles from an existing version of the product</td>
<td></td>
</tr>
<tr>
<td>Review the security for datasets</td>
<td></td>
</tr>
<tr>
<td>Specify external security</td>
<td></td>
</tr>
<tr>
<td>Specify internal security</td>
<td></td>
</tr>
</tbody>
</table>

82 OMEGAMON XE for Storage and OMEGAMON II for SMS Config. and Cust. Guide
Migrating Your Profiles

Background about migrating profiles
You can migrate the settings and thresholds in the profiles for a prior version of OMEGAMON II for SMS to a newer version of OMEGAMON II for SMS.

Migrating the profiles
Migrate the profiles by using a copy WITHOUT REPLACE to copy the following RTE libraries from the prior version to the newer version of OMEGAMON II for SMS.

- `hilev.midlev.RKDFPRFT`
- `hilev.midlev.RKDFPRFJ`
- `hilev.midlev.RKDFPRFA`
Adding a Session to OMEGAVIEW

Background about adding a session to OMEGAVIEW

The interface between OMEGAMON II for SMS and OMEGAVIEW provides OMEGAVIEW with SMS status information.

Once you have defined an SMS session within OMEGAVIEW, you can quickly and easily assess realtime SMS status from within OMEGAVIEW.

Requirements

In order to use the interface, you must installed:

- OMEGAMON II for SMS Version 540
- OMEGAVIEW Version 300 at the latest maintenance level

We recommend that you review Preventative Service Planning (PSP) information for both OMEGAMON II and OMEGAVIEW.

Adding a session to OMEGAVIEW

Follow the steps below to define a session to OMEGAVIEW.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Start OMEGAVIEW.</td>
</tr>
<tr>
<td>2</td>
<td>Log onto OMEGAVIEW.</td>
</tr>
<tr>
<td>3</td>
<td>Use the Configuration Manager to add an OMEGAMON II for SMS session.</td>
</tr>
</tbody>
</table>
Security: Reviewing Requirements for Datasets

Dataset security

The following table details the security requirements for OMEGAMON II for SMS datasets. You must have read, write, allocate, and delete access to all of these datasets. The high level qualifier for all of these datasets is specified during the CICAT configuration process.

Table 10. Dataset Security Requirements

<table>
<thead>
<tr>
<th>Dataset Type</th>
<th>Description</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distribution Libraries</td>
<td>Used only by SMP/E. Low level qualifier typically starts with 'D'.</td>
<td>No access required.</td>
</tr>
<tr>
<td>Target Libraries</td>
<td>Maintained by SMP/E and read by the started tasks. Low level qualifier typically starts with 'T'.</td>
<td>No access required.</td>
</tr>
<tr>
<td>Runtime Libraries</td>
<td>Created and updated by the configuration process. Read and written by the started tasks. Low level qualifier starts with 'RKDF' or 'RKAN'.</td>
<td>Each started task requires read and write access.</td>
</tr>
<tr>
<td>Product VSAM Files</td>
<td>Created by the configuration process. Read and written by the OMEGAMON II for SMS started task. Identified by 'RKDFNAM' and 'RKDFTDB'.</td>
<td>OMEGAMON II for SMS started task requires read and write access.</td>
</tr>
<tr>
<td>CMS VSAM File</td>
<td>Created by the configuration process. Read and written by the CMS started task. Identified by 'RKDFDATA'.</td>
<td>CMS started task requires read and write access.</td>
</tr>
<tr>
<td>Service Response Datasets</td>
<td>Dynamically allocated, cataloged, and deleted by the CMS address space at runtime. Temporarily holds the results of DFSMSdss and DFHSM actions until they are written to the service checkpoint dataset.</td>
<td>CMS started task requires read, write, allocate, and delete access.</td>
</tr>
</tbody>
</table>
Table 10. Dataset Security Requirements

<table>
<thead>
<tr>
<th>Dataset Type</th>
<th>Description</th>
<th>Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistent Datastore</td>
<td>Created by the configuration process. Read, written, deleted, and reallocated by the PDS batch maintenance job. Identified by ‘RKDFDSA’ and ‘RKDFDSB’.</td>
<td>PDS batch maintenance job requires read, write, allocate, and delete access.</td>
</tr>
</tbody>
</table>
Internal Security: Specifying Internal Security

Background about internal Security

OMEGAMON II for SMS provides internal facilities to secure the product at the product, panel, and panel function levels. This section describes the authority levels available. You must have administrator authority to authorize other users.

User authorities

Each user ID that logs on has one of three authority levels assigned:

<table>
<thead>
<tr>
<th>Authority Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Administrator</td>
<td>This is the highest authority level and controls OMEGAMON II for SMS operation and access to all OMEGAMON II for SMS functions.</td>
</tr>
<tr>
<td>Storage Administrator</td>
<td>Monitors storage performance and resolves storage problems. Typically has access to most OMEGAMON II for SMS functions.</td>
</tr>
<tr>
<td>General User</td>
<td>Monitors storage performance (default).</td>
</tr>
</tbody>
</table>
Authorized users with NAM security

If you are using NAM security, you MUST define ALL authorized users of OMEGAMON II for SMS. by issuing the following MVS Modify command

\[
\text{F cccccccc,NAM SET userid PASSWORD=\textit{password}}
\]

where cccccccc is the started task name you specified for OMEGAMON II for SMS using CICAT.

After implementing NAM security, maintain user IDs and passwords as follows:

- To modify a user password, reissue the MODIFY command used to initially set the password.

- To control the number of times a user can log on before a change of password is required, issue the MODIFY command as follows

\[
\text{F cccccccc,NAM SET userid EXPIRE=\textit{nn}}
\]

where cccccccc is the started task name you specified for OMEGAMON II for SMS using CICAT.

- To delete a NAM user, enter the following command

\[
\text{F cccccccc,NAM DELETE userid}
\]

where cccccccc is the started task name you specified for OMEGAMON II for SMS using CICAT.

Internal security

If you are using internal security, OMEGAMON II for SMS maintains a list of user IDs that have been assigned authority levels higher than General User level. A user who is not defined in this table is assigned a General User access level at logon. Only those with Product Administrator level authority can modify this authorization list.
**Initial product administrator authority**

To allow you to alter the authorization list during product installation, Candle provides a special internal user ID so you can log onto the product with Product Administrator status. This user ID can access all product functions and remains defined in the authorization list until it is explicitly deleted. This is the initial product administrator user ID and password.

<table>
<thead>
<tr>
<th>Initial Product Administrator ID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USERID:</strong> CANSUPER</td>
</tr>
<tr>
<td><strong>PASSWORD:</strong> ENIGMA37</td>
</tr>
</tbody>
</table>

We highly recommended that you immediately log onto OMEGAMON II for SMS and define the IDs that will be performing product administrator functions. Once you have completed this task, delete the CANSUPER ID from the authorization list. For more information on how to accomplish these tasks, see the “Setting Internal Security” chapter in the OMEGAMON II for SMS Administrator’s Guide.
External Security: Types of Security

Background about external security
During CICAT configuration when you defined OMEGAMON II for SMS configuration values, you chose a method for implementing security. The method you chose determines how protected functions in OMEGAMON II for SMS are controlled. External security enables you to control access to the product and to critical functions at the panel level using an external security package. External security can be used with, or replace, internal security.

Internal security is the standalone OMEGAMON II for SMS security system that controls access at the product level and/or panel level. For more information about internal security, see the “Setting Internal Security” chapter in the OMEGAMON II for SMS Administrator’s Guide.

If you implement panel level external security, OMEGAMON II for SMS does not recognize the CANSUPER user ID. For more information about CANSUPER, see the ”Setting Internal Security” chapter in the OMEGAMON II for SMS Administrator’s Guide.

Supported external security packages
OMEGAMON II for SMS supports the following external security packages.

- RACF
- CA-ACF2
- CA-TOP SECRET

Product level security
You can use an external security package to control user access to OMEGAMON II for SMS at logon. With this method, only those user IDs defined to an external security resource can access the product.

Product level security provides user ID and password validation to detect and prevent unauthorized access to OMEGAMON II for SMS, starting with the System Status panel.
Panel level security

When you select external security as your security method, you must then choose one of the following options for implementing panel level external security:

- access level
- function level

Panel level security prevents the unauthorized use of sensitive OMEGAMON II for SMS panels and panel functions. This can be managed with the internal security that is built into OMEGAMON II for SMS, or with an external security package using an access level scheme or a function-based scheme.

Access level

Access level external security enables you to define authority levels by user ID. It uses OMEGAMON II for SMS’s internal security structure of product administrator, storage administrator, and general user authority levels. However, authority level assignment is performed by the external security product. With this option, authority levels for critical functions remain controlled by internal security.

Access level security prevents the unauthorized use of sensitive OMEGAMON II for SMS panels and panel functions. This scheme is based on access levels defined for each user combined with access levels defined for selected functions. Panel actions are controlled by granting authority based on a user’s access level.

Function level

Function level external security enables you to define resource rules for critical OMEGAMON II for SMS functions. Access to a function is based on comparing the requesting user ID with the user IDs defined in the resource rule for that function. The external security manager performs security checking for all OMEGAMON II for SMS users.

Function based security prevents the unauthorized use of sensitive OMEGAMON II for SMS panels and panel functions by granting or denying access based on user ID instead of access level.
External Security: Product Level

Background about product level security

This section discusses the product level method of implementing external security. This method controls user access to OMEGAMON II for SMS using the resource rules of an external security package.

Product access

With product level external security, access to OMEGAMON II for SMS is assigned to users through the external security package using resource rules defined by the product administrator.

Refer to the individual section for your security package later in this chapter for instructions on defining resource rules.

If a user ID is not defined to the resource, the user is not allowed to log onto OMEGAMON II for SMS. If an unauthorized user attempts to log on, an error message appears and the user is denied access to the product.

Resource rules for users

You must write resource rules in your external security package to define authorized user IDs. The resource name is:

OMIISMS@PRODUCT@ACCESS
External Security: Access Level

Background about access level security
This section discusses the access level method of implementing external security. This method controls user access to critical functions within OMEGAMON II for SMS by using resource rules to assign each user an authority level.

Authority levels
Access level external security uses the same authority levels that are used in internal security.

The authority levels are: product administrator, storage administrator, and general user as described in the OMEGAMON II for SMS Administrator’s Guide.

Assigning authorities to users
With access level external security, authority levels are assigned to users through the external security package using resource rules defined by the product administrator.

Refer to the individual section for your security package later in this chapter for instructions on defining resource rules.

Two resource classes are defined
- product administrator
- storage administrator

If a user ID is not defined in one of the above resources, then the user defaults to a general user authority level.

Access level external security disables the Assign Authority Level for User function on the User Authorities panel.
External Security: Access Level

Assigning authorities to functions

With access level external security, you continue to use internal security for assigning authority levels to functions. See the OMEGAMON II for SMS Administrator’s Guide.

Resource rules for users

You must write resource rules in your external security package to define authorized user IDs. The resource name is:

OMIISMS@PRODUCT@ACCESS
External Security: Function Level

Background about function level security
This section discusses the function level method of applying external security. This method controls access to critical functions within OMEGAMON II for SMS by assigning each function to a resource, and then defining the users with access to that resource.

Authority levels
Function level external security does not use the authority levels of the internal security structure to control access to critical functions. Instead, each controlled function is associated with a resource defined to the external security system as described below.

Assigning access to functions
With function level external security, you write the resource rules within the security package that define each OMEGAMON II for SMS critical function and the users with access to that function. You also write an access level rule to define the product administrator.

Function level external security does not use authority levels for the controlled functions shown on the Set Authority Levels for Functions panel. However, some product administrator functions, such as site profile maintenance, are not defined in the function security resource list. These functions are controlled by the product administrator defined in the external security resource rules.

Function level external security disables the User Authorities function on the Options pull-down.

Resource rules for functions
Each resource rule controls a function or a set of functions. Users are allowed to perform a controlled function only when they have access to the resource associated with the function. If you select function level external security, we recommend you define all resources in this set. A function cannot be controlled if it is not associated with a resource rule.
The product administrator does not have access to the functions in the resource rules unless specifically designated.

Any change to this set of resources takes effect immediately once it is visible to OMEGAMON II for SMS. For RACF, you can use this MVS MODIFY to refresh the resource list:

```
F jobname,NAM RACLST
```
Completing the Customization: OMEGAMON II for SMS

External Security: Overview for Defining Package Rules

Background about defining package rules

This section provides an overview of the process of defining OMEGAMON II for SMS to an external security package such as RACF, CA-ACF2, or CA-TOP SECRET.

Definition process

The following steps for defining external security are common to all three external security packages (CA-ACF2, RACF, and CA-TOP SECRET). The instructions for each package are detailed in the sections that follow.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Read the next section.</td>
</tr>
<tr>
<td>2</td>
<td>Find the section for the package you want to use and follow the instructions.</td>
</tr>
<tr>
<td>3</td>
<td>Implement the security using the instructions in “External Security: Implementing When Complete” on page 112.</td>
</tr>
</tbody>
</table>
External Security: Resource Tables

Product level resource

If you are using product level external security, you must define a resource for the product access.

Table 11. Product Level Resources

<table>
<thead>
<tr>
<th>Resource Name</th>
<th>Authorization</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMIISMS@PRODUCT@ACCESS</td>
<td>Product access</td>
</tr>
</tbody>
</table>

Access level resources

If you are using access level external security, you must define a resource for the product administrator and storage administrator.

Table 12. Access Level Resources

<table>
<thead>
<tr>
<th>Resource Name</th>
<th>Access Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMIISMS@PRODUCT@ADMIN</td>
<td>Product administrator authority level</td>
</tr>
<tr>
<td>OMIISMS@STORAGE@ADMIN</td>
<td>Storage administrator authority level</td>
</tr>
</tbody>
</table>

A user defined as both a product administrator and a storage administrator is considered a product administrator.
Function level resources

If you are using function level external security, you must define the product level resource described above plus a resource for each function controlled by the external security package.

Also, you must define a product administrator resource to allow a user to perform the product administrator functions not included in this resource table.

Table 13. Function Level Resources

<table>
<thead>
<tr>
<th>Resource Name</th>
<th>Functions Controlled</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMIISMS@PRODUCT@ADMIN</td>
<td>Product administrator authority</td>
</tr>
<tr>
<td>OMIISMS@HSM@HR</td>
<td>Hold/Release HSM functions</td>
</tr>
<tr>
<td>OMIISMS@HSM@CANCEL</td>
<td>Cancel queued HSM requests</td>
</tr>
<tr>
<td>OMIISMS@HSM@COMMAND</td>
<td>Issue HSM commands</td>
</tr>
<tr>
<td>OMIISMS@HSM@ACTION</td>
<td>Initiate HSM volume actions</td>
</tr>
<tr>
<td>OMIISMS@HSM@DATASET</td>
<td>Initiate HSM dataset actions</td>
</tr>
<tr>
<td>OMIISMS@DFDSS@ACTION</td>
<td>Initiate DFSMSdss volume actions</td>
</tr>
<tr>
<td>OMIISMS@DFDSS@DATASET</td>
<td>Initiate DFSMSdss dataset actions</td>
</tr>
<tr>
<td>OMIISMS@SYS@OPERATOR</td>
<td>Issue system operator commands</td>
</tr>
<tr>
<td>OMIISMS@COM@SETCACHE</td>
<td>Issue SETCACHE commands</td>
</tr>
<tr>
<td>OMIISMS@COM@LISTUSER</td>
<td>List users of a volume</td>
</tr>
<tr>
<td>OMIISMS@DEFINE@CHP</td>
<td>Define online channel path list</td>
</tr>
<tr>
<td>OMIISMS@DEFINE@CACHE</td>
<td>Define list of cached/DFW devices</td>
</tr>
<tr>
<td>OMIISMS@DEFINE@GROUP</td>
<td>Define user DASD groups to monitor</td>
</tr>
<tr>
<td>OMIISMS@DEFINE@APPL</td>
<td>Define applications to monitor</td>
</tr>
</tbody>
</table>
External Security: Defining for RACF

Defining the product level security interface

If you are not already running RACF sign-on security (product level), then you must define the OMEGAMON II for SMS/RACF interface. If you are already using RACF, skip this section.

Perform the following steps to protect the OMEGAMON II for SMS applid. If necessary, use the name of your applid to replace the default name.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
</table>
| 1    | Create the following profile in the APPL class
      | RDEFINE APPL cccccccc UACC (NONE)  
      | (where cccccccc is logon applid you specified for OMEGAMON II for SMS using CICAT) |
| 2    | Grant READ access to the profile as follows
      | PERMIT cccccccc CLASS (APPL) ID (userid) ACCESS(READ)  
      | (where cccccccc is logon applid you specified for OMEGAMON II for SMS using CICAT) |
| 3    | Activate the APPL class as follows.
      | SETROPTS CLASSACT (APPL) |
Defining the panel level security interface

To set up RACF rules to interface with OMEGAMON II for SMS, follow these steps.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
</table>
| 1    | Update the resource class description table to define a class name using the ICHERCDE macro call. We recommend coding the ICHERCDE macro as follows:  

```
ICHERCDE CLASS=classname,
  ID=nnn ,
  MAXLNTH=28,
  FIRST=ALPHANUM,
  OTHER=ANY,
  POSIT=nnn,
  DFTUACC=NONE
```

Values for `classname` and `nnn` are determined by your installation. Additional operands for this macro may also be required at your installation. |
| 2    | Activate the newly defined resource class. |
**Defining product level resource rules**

Define resource rules to represent authorized user access.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Define a resource that represents authorized users access using the TSO RDEFINE command and specifying the resource name listed in “External Security: Access Level” on page 93. &lt;br&gt;<strong>RDEFINE classname OMIISMS@PRODUCT@ACCESS UACC(NONE)</strong></td>
</tr>
<tr>
<td>2</td>
<td>Grant product access to selected users. For example: &lt;br&gt;<strong>PERMIT OMIISMS@PRODUCT@ACCESS CLASS (classname) ID (userid) ACC (READ)</strong></td>
</tr>
</tbody>
</table>

**Defining access level resource rules**

Define resource rules to represent product and storage administrator access levels. These access levels can be used with OMEGAMON II for SMS internal security to determine if a particular function is accessible to a user.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Define resources that represent product and storage administrator access levels using the TSO RDEFINE command and specifying the resource name listed in “External Security: Access Level” on page 93. &lt;br&gt;<strong>RDEFINE classname OMIISMS@PRODUCT@ADMIN UACC(NONE)</strong>&lt;br&gt;<strong>RDEFINE classname OMIISMS@STORAGE@ADMIN UACC(NONE)</strong></td>
</tr>
<tr>
<td>2</td>
<td>Grant product and storage administrator authority to selected users. For example: &lt;br&gt;<strong>PERMIT OMIISMS@PRODUCT@ADMIN CLASS (classname) ID (userid) ACC (READ)</strong></td>
</tr>
</tbody>
</table>
## Defining function level resource rules

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Specify the resource name listed in “External Security: Function Level” on page 95 using the TSO RDEFINE command. Be sure to specify that only specific users may execute the function by setting UACC(NONE).</td>
</tr>
</tbody>
</table>
| 2    | Define those users who can access the resource (execute the command) using the PERMIT command to give them READ access. For example:  

```
RDEFINE classnme OMIISMS@HSM@ACTION UACC(NONE)
PERMIT OMIISMS@HSM@ACTION CLASS (classnme) ID (userid) ACCESS (READ)
```

| 3    | Define the resource that represents product administrator access level using the TSO RDEFINE command and specifying the resource name listed in “External Security: Access Level” on page 93.  

```
RDEFINE classnme OMIISMS@PRODUCT@ADMIN UACC(NONE)
```

| 4    | Grant product administrator authority to selected users. For example:  

```
PERMIT OMIISMS@PRODUCT@ADMIN CLASS(classnme) ID (userid) ACC (READ)
```
**Recognizing New RACF User**

When a new user is granted access, you must refresh the OMEGAMON II for SMS copy of the RACF resource list. To do this, use MVS MODIFY to issue a NAM RACLIST command. For example:

```
F jobname,NAM RACLIST
```

where `jobname` is the name of the OMEGAMON II for SMS address space.

Alternatively, you can perform the OMEGAMON II for SMS recycle described in “External Security: Implementing When Complete” on page 112.
External Security: Defining for CA-ACF2

Defining the product level security interface

If you are not already running ACF2 sign-on security (product level), then you must define the OMEGAMON II for SMS/ACF2 interface. If you are already using ACF2, skip this section.

The multi-user system access control point used by OMEGAMON II for SMS has all the characteristics of an ACF2 Multiple User Single Address Space System (MUSASS).

Define the name of the OMEGAMON II for SMS application started task (default name is KDFAPROC) to ACF2. For example:

```
INS KDFAPROC NAME (taskname) MUSASS
```

The started task must have the MUSASS attribute assigned. This allows ACF2 to check the individual user’s authorization rather than using the OMEGAMON II for SMS address space ID.

Defining the panel level security interface

To use ACF2 to control access to critical panels and functions, you must have previously defined the started task name to ACF2 (Step 1 in previous section). Now, set up a resource class in ACF2.

Define a resource class in ACF2 to allow OMEGAMON II for SMS to make the security checks.

The resource class name must be 3 characters long for generalized resources (for example, KDF).

Defining product level resource rules

Define resource rules to represent authorized user access.

Define resource rules using the ACF2 commands to represent valid user IDs. For example:

```
ACFNRULE KEY(OMIISMS@PRODUCT@ACCESS) TYPE(KDF) -
ADD(UID(************userid) ALLOW)
```
where KDF must match the resource class name that you defined, \textit{userid} is a userid or userid mask, and the KEY is a previously defined resource (see “External Security: Access Level” on page 93).
Defining access level resource rules

Define resource rules to represent product and storage administrator access levels. These access levels can be used with OMEGAMON II for SMS internal security to determine if a particular function is accessible to a user.

Define resource rules using the ACF2 commands to represent product and storage administrators. For example:

```
ACFNRULE KEY(OMIISMS@PRODUCT@ADMIN) TYPE(KDF) -
   ADD(UID(************userid) ALLOW)
ACFNRULE KEY(OMIISMS@STORAGE@ADMIN) TYPE(KDF) -
   ADD(UID(************userid) ALLOW)
```

where KDF must match the resource class name that you defined, userid is a userid or userid mask, and the value of the KEY parameter is a previously defined resource ("External Security: Access Level" on page 93).

Defining function level resource rules

Define an ACF2 rule for each function you want to protect. Also, define an ACF2 rule for the product administrator. This provides access to product administrator functions not included in the list of controlled functions.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
</table>
| 1    | Define an ACF2 rule for each function you want to protect with ACF2. For example:  

```
ACFNRULE KEY(OMIISMS@HSM@ACTION) TYPE(KDF) -
   ADD(UID(************userid) ALLOW)
```

where KDF must match the resource class name that you defined, userid is a userid or userid mask, and the KEY is the previously defined function resource (see "External Security: Function Level" on page 95).
Define an ACF2 rule to represent product administrator access level. This access level can be used with OMEGAMON II for SMS internal security to determine if a particular function is accessible to a user. For example:

```
ACFNRULE KEY(OMIISMS@PRODUCT@ADMIN) TYPE(KDF) -
ADD(UID(************userid) ALLOW)
```

where KDF must match the resource class name that you defined, `userid` is a userid or userid mask, and the KEY is the previously defined product administrator resource (see “External Security: Function Level” on page 95).

Continue with “External Security: Implementing When Complete” on page 112.
External Security: Defining CA-TOP SECRET

Defining the product level security interface

If you are not already running TOP SECRET sign-on security (product level), then you must define the OMEGAMON II for SMS/CA-TOP SECRET interface. If you are already using TOP SECRET, skip this section. Follow these steps to interface with TOP SECRET external security at the product level.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
</table>
| 1    | Define the OMEGAMON II for SMS address space as a started task in the STC record, along with the related master FACILITY ACID. For example, enter:  

   **TSS ADD(STC) PROC(task) ACID(master facility acid)**  

   where *task* represents the name of the application started task; the default started task name is KDFAPROC. |
| 2    | Define *task* as a FACILITY in the Facility Matrix Table, where *task* is the started task name. If the name you define in the FACILITY statement is different from the started task name, see the TOP SECRET documentation for information on setting up the FACILITY statement.  

   The following example shows FACILITY statements from a TOP SECRET installation (some of these statements may not be relevant to your system, and others may need modification):  

   **FACILITY(USER3=NAME=task)**  

   **FACILITY(task=MODE=FAIL,ACTIVE,SHRPRF)**  

   **FACILITY(task=PGM=KLV,NOASUBM,NOABEND,NOXDEF)**  

   **FACILITY(task=ID=3,MULTIUSER,RES,WARNPW,SIGN(M))**  

   **FACILITY(task=NOINSTDATA,NORNDPW,AUTHINIT,NOPROMPT,NOAUDIT,NOMRO)**  

   **FACILITY(task=NOTSOC,LOG(INIT,SMF,MSG,SEC9))**  

   **Note:** The *SIGN* parameter on the FACILITY statement must be specified as *IGN(M)*, or TOP SECRET may revoke user access. Also, verify that *MODE=FAIL* is set. |
| 3    | Define all the OMEGAMON II for SMS datasets you want protected to TOP SECRET. Make sure the OMEGAMON II for SMS started task has access to them. (This step is optional.) |
Defining the panel level security interface

To set up TOP SECRET rules to interface with OMEGAMON II for SMS, follow these steps.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Create a FACILITY statement for the KDFAPROC started task, including the MULTIUSER parameter and specifying KLV as the program name.</td>
</tr>
<tr>
<td>2</td>
<td>Add the KDFAPROC facility to users, as follows: TSS ADDTO(useracid) FACILITY(KDFAPROC)</td>
</tr>
<tr>
<td>3</td>
<td>Define a resource class to the RDT (Resource Descriptor Table). For example: TSS ADDTO(RDT) RESCLASS(KDFCANDL) RESCODE(nn) where nn is any hexadecimal code between 01 and 3F.</td>
</tr>
<tr>
<td>4</td>
<td>Give ownership to class KDFCANDL, prefixed with OMII. For example: TSS ADDTO(deptacid) KDFCANDL(OMII)</td>
</tr>
</tbody>
</table>

Defining product level resource rules

Write product level resource rules as follows.

Define PERMIT rules to represent user authority access. For example:

TSS PERMIT(useracid) KDFCANDL(OMII PRODUCT@ACCESS)

Defining access level resource rules

Write access level resource rules as follows.

Define PERMIT rules to represent product and storage administrator access levels. For example:

TSS PERMIT(useracid) KDFCANDL(OMII PRODUCT@ADMIN)
TSS PERMIT(useracid) KDFCANDL(OMII STORAGE@ADMIN)
**Defining function level resource rules**

Write function level resource rules as follows.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Define a rule for each function you want to protect with TOP SECRET. For example: TSS PERMIT(useracid) KDFCANDL(OMIISMS@HSM@ACTION)</td>
</tr>
<tr>
<td>2</td>
<td>Define a rule for the product administrator access level. For example: TSS PERMIT(useracid) KDFCANDL('OMIISMS@PRODUCT@ADMIN')</td>
</tr>
<tr>
<td>3</td>
<td>Continue with “External Security: Implementing When Complete” on page 112.</td>
</tr>
</tbody>
</table>
Initialize the security updates

To initialize the changes you make to OMEGAMON II for SMS external security, you must perform the following steps.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
</table>
| 1    | Stop all OMEGAMON II for SMS started tasks.  
**Result:** OMEGAMON II for SMS is stopped. |
| 2    | Restart all OMEGAMON II for SMS started tasks.  
**Result:** Security updates are initialized, and external security is now in effect. |

Setting options online

You set thresholds, monitoring options, display preferences, and screen print options online using the Options pull-down. For information about setting options online, proceed to:

- the OMEGAMON II for SMS Administrator’s Guide
- “Customizing OMEGAMON II for Your Site” in the OMEGAMON II for SMS User’s Guide
Introduction

This chapter contains information about updating and changing your configuration.

Chapter contents

Updating and Changing the Configuration .......................... 114
Updating and Changing the Configuration

Overview of the process for updating or changing your configuration

The illustration shows the process for updating or changing your configuration.

FIGURE 2. Process for Updating and Changing Your Configuration

1. Using CICAT, make the changes you want to the configuration.

2. On the Runtime Environments (RTEs) panel in CICAT, use the L (Load libs after SMP/E select) to load the target libraries to the runtime libraries.

3. If the changes are to values that require manual steps outside of CICAT to complete the configuration, perform the appropriate steps.

Example of a change to the configuration that requires manual steps

If the changes you make in CICAT are to configuration values that also require manual steps outside of CICAT, you must also perform the steps outside of CICAT when you update or change the values in CICAT.

For example, if you are using the Persistent Datastore and you change the prefix for the procedure using CICAT, you must also copy the renamed procedure to your PROCLIB.

For step-by-step instructions for these tasks, see chapter 5.
Introduction

Candle Corporation is committed to producing top-quality software products and services. To assist you with making effective use of our products in your business environment, Candle is also committed to providing easy-to-use, responsive customer support.

Precision, speed, availability, predictability—these terms describe our products and Customer Support services.

Included in this Guide to Candle Customer Support is information about the following:

**Base Maintenance Plan** .......................................................... 116
  - Telephone Support
  - eSupport
  - Description of Severity Levels
  - Service-level objectives
  - Recording and monitoring calls for quality purposes
  - Customer Support Escalations
  - Above and Beyond

**Enhanced Support Services** .................................................. 120
  - Assigned Support Center Representative (ASCR)
  - Maintenance Assessment Services (MAS)
  - Multi-Services Manager (MSM)

**Customer Support Contact Information** ................................. 122
  - Link to Worldwide Support Telephone and E-mail information
Base Maintenance Plan

Overview
Candle offers a comprehensive Base Maintenance Plan to ensure that you realize the greatest value possible from your Candle software investments. We have more than 200 technicians providing support worldwide, committed to being responsive and to providing expedient resolutions to support requests. Technicians are available worldwide at all times during the local business day. In the event of an after-hours or weekend emergency, our computerized call management and forwarding system will ensure that a technician responds to Severity One situations within one hour. For customers outside of North America, after-hours and weekend support is provided in English language only by Candle Customer Support technicians located in the United States.

Telephone support
Candle provides consistently reliable levels of service—thanks to our worldwide support network of dedicated experts trained for specific products and operating systems. You will always work with a professional who truly understands your problem.

We use an online interactive problem management system to log and track all customer-reported support requests. We give your support request immediate attention by routing the issue to the appropriate technical resource, regardless of geographic location.

**Level 0 Support** is where your call to Candle Customer Support is first handled. Your support request is recorded in our problem management system, then transferred to the appropriate Level 1 support team. We provide Level 0 manual interaction with our customers because we support more than 170 products. We feel our customers would prefer personal interaction to a complex VRU or IVR selection menu.

**Level 1 Support** is the service provided for initial support requests. Our Level 1 team offers problem determination assistance, problem analysis, problem resolutions, installation assistance, and preventative and corrective service information. They also provide product usage assistance.
**Base Maintenance Plan**

**Level 2 Support** is engaged if Level 1 cannot provide a resolution to your problem. Our Level 2 technicians are equipped to analyze and reproduce errors or to determine that an error is not reproducible. Problems that cannot be resolved by Level 2 are escalated to Candle’s Level 3 R&D support team.

**Level 3 Support** is engaged if a problem is identified in Candle product code. At Level 3, efforts are made to provide error correction, circumvention or notification that a correction or circumvention is not available. Level 3 support provides available maintenance modifications and maintenance delivery to correct appropriate documentation or product code errors.

**eSupport**

In order to facilitate the support process, Candle also provides eSupport, an electronic full-service information and customer support facility, via the World Wide Web at www.candle.com/support/. eSupport allows you to open a new service request and update existing service requests, as well as update information in your customer profile. New and updated service requests are queued to a support technician for immediate action. And we can respond to your request electronically or by telephone—it is your choice.

eSupport also contains a continually expanding knowledge base that customers can tap into at any time for self-service access to product and maintenance information.

The Candle Web Site and eSupport can be accessed 24 hours a day, 7 days a week by using your authorized Candle user ID and password.

**Description of Candle severity levels**

Responses to customer-reported product issues and usage questions are prioritized within Candle according to Severity Code assignment. Customers set their own Severity Levels when contacting a support center. This ensures that we respond according to your individual business requirements.

<table>
<thead>
<tr>
<th>Severity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Crisis</td>
</tr>
<tr>
<td>2</td>
<td>High</td>
</tr>
</tbody>
</table>

**Severity 1**

Crisis
A crisis affects your ability to conduct business, and no procedural workaround exists. The system or application may be down.

**Severity 2**

High
A high-impact problem indicates significant business effect to you. The program is usable but severely limited.
Base Maintenance Plan

**Severity 3 Moderate**
A moderate-impact problem involves partial, non-critical functionality loss or a reasonable workaround to the problem. A “fix” may be provided in a future release.

**Severity 4 Low**
A low-impact problem is a “how-to” or an advisory question.

**Severity 5 Enhancement Request**
This is a request for software or documentation enhancement. Our business units review all requests for possible incorporation into a future release of the product.

Candle has established the following service-level objectives:

<table>
<thead>
<tr>
<th>Call Status</th>
<th>Severity 1 Goal</th>
<th>Severity 2 Goal</th>
<th>Severity 3 Goal</th>
<th>Severity 4 Goal</th>
<th>Severity 5 Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Call Time to Answer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>90% within one minute</td>
</tr>
<tr>
<td>Level 1 Response (Normal Business Hours)</td>
<td>90% within 5 minutes</td>
<td></td>
<td></td>
<td></td>
<td>90% within one hour</td>
</tr>
<tr>
<td>Level 2 Response (Normal Business Hours)</td>
<td>Warm Transfer</td>
<td>90% within two hours</td>
<td></td>
<td></td>
<td>90% within eight hours</td>
</tr>
<tr>
<td>Scheduled follow-up (status update)</td>
<td>Hourly or as agreed</td>
<td>Daily or as agreed</td>
<td>Weekly or as agreed</td>
<td></td>
<td>Notification is made when an enhancement is incorporated into a generally available product.</td>
</tr>
</tbody>
</table>

Notification is made when a fix is incorporated into a generally available product.

The above information is for guideline purposes only. Candle does not guarantee or warrant the above service levels. This information is valid as of October 1999 and is subject to change without prior notice.
Recording and Monitoring Calls for Quality Purposes

Candle is committed to customer satisfaction. To ensure that our customers receive high levels of service, quality and professionalism, we'll monitor and possibly record incoming and outgoing Customer Support calls. The information gleaned from these calls will help us serve you better. If you prefer that your telephone call with Candle Customer Support in North America not be monitored or recorded, please advise the representative when you call us at (800) 328-1811 or (310) 535-3636.

Customer Support Escalations

Candle Customer Support is committed to achieving high satisfaction ratings from our customers. However, we realize that you may occasionally have support issues that need to be escalated to Candle management. In those instances, we offer the following simple escalation procedure:

If you experience dissatisfaction with Candle Customer Support at any time, please escalate your concern by calling the Candle support location closest to you. Ask to speak to a Customer Support manager. During standard business hours, a Customer Support manager will be available to talk with you or will return your call. If you elect to hold for a manager, you will be connected with someone as soon as possible. If you wish a return call, please tell the Candle representative coordinating your call when you will be available. After contacting you, the Customer Support manager will develop an action plan to resolve your issue. All escalations or complaints received about support issues are logged and tracked to ensure responsiveness and closure.

Above and Beyond

What differentiates Candle’s support services from our competitors? We go the extra mile by offering the following as part of our Base Maintenance Plan:

- Unlimited multi-language defect, installation and operations support
- eSupport using the World Wide Web
- Regularly scheduled product updates and maintenance provided at no additional charge
- Over 200 specialized technicians providing expert support for your Candle products
Enhanced Support Services

Overview

Our Base Maintenance Plan provides a high level of software support in a packaged offering. However, in addition to this plan, we have additional fee-based support services to meet unique customer needs.

The following are some examples of our added-value support services:

- **Assigned Support Center Representative Services (ASCR)**
  - An assigned focal point for managing support escalation needs
  - Proactive notification of available software fixes
  - Proactive notification of product version updates
  - Weekly conference calls with your ASCR to review active problem records
  - Monthly performance reviews of Candle Customer Support service levels
  - Optional on-site visits (extra charges may apply)

- **Maintenance Assessment Service (MAS)**
  - On-site assessment services
  - Advice about product maintenance and implementation
  - Training your staff to develop efficient and focused procedures to reduce overall cost of ownership of your Candle software products
  - Analysis of your Candle product environment: versions, updates, code correction history, incident history and product configurations
  - Reviews to ensure that purchased Candle products and solutions are used effectively

- **Multi-Services Manager (MSM)**
  Multi-Services Manager provides highly valued services to customers requiring on-site full time expertise to complement their technical resources.
  - Dedicated on-site Candle resource (6 months or one year) at your site to help ensure maximum use and effectiveness of your Candle products
Enhanced Support Services

- Liaison for all Candle product support activities, coordination and assistance with implementation of all product updates and maintenance releases
- Works with your staff to understand business needs and systems requirements
- Possesses technical and systems management skills to enhance your staff’s knowledge and expertise
- Other projects as defined in Statement of Work for MSM services
Customer Support Contact Information

Link to Worldwide Support Telephone and E-mail information

To contact Customer Support, the current list of telephone numbers and e-mail addresses can be found on the Candle Web site, www.candle.com/support/.

Select Support Contacts from the list on the left of the page.
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