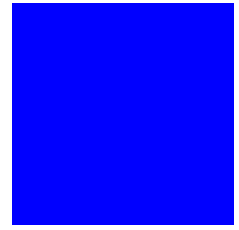


# **CIMS Lab, Inc.**

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## **CIMS Server**

### **Web Reporting User's Guide**

**Version 3.3**

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### **Mailing Address**

CIMS Lab, Inc.  
3013 Douglas Blvd., Suite 120  
Roseville, CA 95661-3842

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# Preface

CIMS Web Reporting is a key portion of the CIMS Server chargeback system. It offers a full range of IT resource reporting features that are accessible via your Web browser.

The technology behind CIMS Server and CIMS Server Web Reporting is based on CIMS Lab's many years of experience in the development and implementation of Resource Accounting, Capacity Planning and IT Chargeback products.

## About CIMS Lab

Founded in 1974, CIMS Lab has focused on meeting the financial and resource reporting requirements of Information Services Departments. CIMS has evolved with corporate IT management requirements. Focused commitment to client service and support sets CIMS apart from competing products. Our goal is to provide the best chargeback and resource reporting software in the world at the lowest possible cost to our customers.

CIMS Lab strongly believes in and executes the concept of continuous product improvement. Customers have access to CIMS product development personnel to ensure that customer feedback and other critical issues are incorporated into the next release of the product.

## Contacting CIMS Lab

To contact CIMS Lab with questions, comments, or problems, please use one of the following methods:

**For product assistance or information:**

USA & Canada, toll free - (800) 283-4267  
International - (916) 783-8525  
FAX - (916) 783-2090  
World Wide Web - <http://www.cimslab.com>

**Mailing Address:**

CIMS Lab, Inc.  
3013 Douglas Blvd., Suite 120  
Roseville, CA 95661-3842

## About This Guide

This guide explains how to use CIMS Server Web Reporting. Note that some features described in this guide might have been customized for your organization. In this case, consult your CIMS Server administrator for assistance.

CIMS Server Web Reporting is a component of CIMS Server. This guide assumes that you have the CIMS Server system installed and configured as described in the *CIMS Server Administrator's Guide*.

This guide contains the following chapters:

Ch. No.	Chapter Name	Content Description
1	<i>Getting Started</i>	Introduces the CIMS Server Web Reporting interface and provides steps for logging in and out and other tasks.
2	<i>Running Reports</i>	Introduces the different report types and describes how to run these reports.
3	<i>Working with Reports</i>	Describes how to navigate and use generated reports.
4	<i>Administering CIMS Server Web Reporting</i>	Describes how to configure user-specific and system-wide administration settings for CIMS Server Web Reporting.
5	<i>Using Transactions</i>	Describes how to use Miscellaneous, Recurring, and Credit transactions.

---

Ch. No.	Chapter Name	Content Description
6	<i>Troubleshooting</i>	Describes problems you may encounter while using CIMS Server Web Reporting and how to solve them.
A	<i>Standard Reports</i>	Describes the standard graphs, reports, spreadsheets, and templates available with CIMS Server Web Reporting.

## Terminology Used in This Guide: Reports, Graphs, and Spreadsheets

For simplicity, in this guide, the term “report” refers to reports, graphs, and spreadsheets unless noted otherwise.

## Conventions

Some or all of the following conventions appear in this guide:

Symbol or Type Style	Represents	Example
<u>Alternate color</u>	hyperlinked cross-references to other sections in this guide	.....see <i>Related Publications</i> .
<i>Italic</i>	words that are emphasized	...the entry <i>after</i> the current entry...
	a new term	...by <i>identifier</i> values.
	the titles of other manuals	<i>CIMS Server Administrator's Guide</i>
<b>Bold</b>	names of interface items such as tabs, boxes, buttons, lists, and check boxes.	The <b>Reports</b> menu Select the <b>Change Password</b> check box The Group Tree appears in the <b>Preview</b> tab
Monospace	directories, file names, command names, computer code, computer screen text, system responses, command line commands, what the user types	Server folder ProcTransactions.wsf <b>script</b> Type <code>iisreset /restart</code>
< >	the name of a key on the keyboard	Press <Enter>
▶	navigating a menu or a folder	Reports ▶ View Published Reports

## Related Publications

As you use this guide, you might find it helpful to have the *CIMS Server Administrator's Guide* available for reference.

---

# Getting Started

This chapter describes how to get started using CIMS Server Web Reporting. CIMS Server Web Reporting is accessible via your Web browser (*Starting CIMS Server Web Reporting* on page 1-2).

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## About CIMS Server Web Reporting

CIMS Server Web Reporting enables you to generate and view IT chargeback and resource accounting reports from a Web browser. These reports include invoice, budget, summary, trend, and variance reports in report, graph, and spreadsheet format.

You can save, copy text from, and print reports. In addition, many reports generated using CIMS Server Web Reporting include multi-level drilldown capabilities that enable you to view detailed resource usage and cost information.

CIMS Server Web Reporting uses Crystal Reports as the report writer. If you are familiar with Crystal Reports, you will recognize many of the reporting features.

---

**Note** • Although CIMS Server Web Reporting is designed to use Crystal Reports, you might be able to use other reporting tools. For more information, contact CIMS Lab (see [Contacting Technical Support](#) on page 6-5).

---

## Types of CIMS Server Web Reporting Users

There are two types of CIMS Server Web Reporting users:

- **Administrators.** Administrators can perform administrative functions in CIMS Server Web Reporting such as changing the configuration options for the application (see [Configuring System-Wide Settings](#) on page 4-7). Administrative access is assigned by your CIMS Server administrator. For more information, refer to the *CIMS Server Administrator's Guide*.
- **End Users.** End users have no administrative privileges.

The terms CIMS Web administrator and CIMS Web end user are used in this guide to differentiate the two user types when needed.

## Starting CIMS Server Web Reporting

To start CIMS Server Web Reporting, open your Web browser and enter the [URL](#) for CIMS Server Web Reporting in the **Address** bar. The specific URL depends on your organization—see your system administrator for the URL. The following is an example of a URL for CIMS Server Web Reporting:

http://<intranet>/cims/

If you are running the browser on the server that is running CIMS Server Web Reporting, enter the URL `http://localhost`.

## Logging On To CIMS Server Web Reporting

There are two methods for logging on to CIMS Server Web Reporting:

- **Auto log on.** Auto log on enables you to use CIMS Server Web Reporting without first logging on to the application through the Login page. If your CIMS Server administrator has enabled auto log on for your user ID, you will see the following message on the home page when you start CIMS Server Web Reporting:

Welcome username, you are currently signed on as userid

If you are a CIMS Web administrator, you can click **Login** to open the Login page and log on as another user if needed (see the steps under the following bullet, **Manual log on**). If you are a CIMS Web end user, the Login page is inactive.

- **Manual log on.** If your CIMS Server administrator has not enabled auto log on for your user ID, you will see the following message on the home page when you start CIMS Server Web Reporting:

Not currently signed in, please click Login to begin

To log on, do the following:

- 1 On the CIMS Server Web Reporting home page, click **Login** to open the Login page.
- 2 Enter the following information, and then click **OK**:
  - Your user ID and password (required). If you do not know your user ID and password, contact your CIMS Server administrator.

The password is case-sensitive. Type the password exactly as provided by your CIMS Server administrator.

- Your company or organization name (if the **Your Company or Organization** box is present). Your CIMS Server administrator determines whether this box is present on the Login page. For more information, refer to the *CIMS Server Administrator's Guide*.

Your company/organization name is saved in a *cookie* so that you do not have to re-enter it each time that you log on.

The CIMS Server Web Reporting home page reappears as shown in example [Figure 1-1](#) on page 1-4.

## ■ Getting Started

### Logging On To CIMS Server Web Reporting



Figure 1-1 • CIMS Server Web Reporting Home Page



## Using the Menu Bar

The menu bar enables you to easily navigate CIMS Server Web Reporting features. The use of the links and menus contained on the menu bar are discussed in the following chapters.

Figure 1-2 provides an overview of the functions of each of the links and menus on the menu bar.

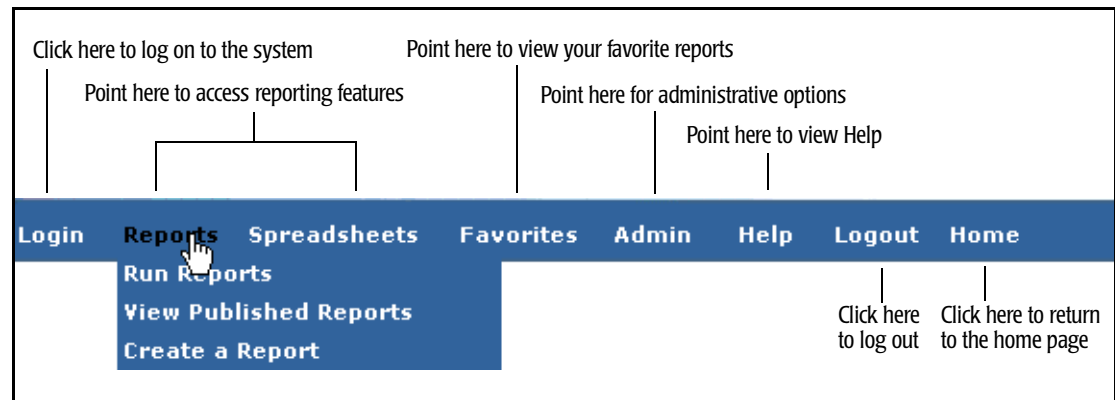


Figure 1-2 • CIMS Server Web Reporting Toolbar

## Changing Your Password

**Note** • If you are a CIMS Web end user and are using auto logon, the information in this section is not applicable. However, if you are a CIMS Web administrator using auto logon, you can change the password of other users using the following steps.

Your CIMS Server administrator assigns user IDs and passwords using the CIMS Server Administrator program. If the **Change Password** check box is present on the Login page, you can change your password as follows:

- 1 Click **Login** to open the Login page.
- 2 Type your user ID, current password, and company or organization name (if required).
- 3 Select the **Change Password** check box and then click **OK**.
- 4 On the Change User Password Page, type your current password and the new password as directed. **The password is alphanumeric and case-sensitive and can be a maximum of 16 characters.**
- 5 Click **OK** to change the password and return to the home page.

Your CIMS Server administrator determines whether the **Change Password** check box is included on the Login page. For more information, refer to the *CIMS Server Administrator's Guide*.

## Logging Off

---

**Note** • If you are a CIMS Web end user and are using auto logon, this section is not applicable. However, if you are a CIMS Web administrator using auto logon, you can log on and off as other users during the same session.

---

To enable one user to log off and another to log on during the same session, click **Logout**. The home page opens with the prompt Not currently signed in, please click **Login** to begin. You cannot use CIMS Server Web Reporting until you log on.

## Viewing Online Help

To view online Help, click **Help**.

## Timing Out

If you are inactive for a period longer than the amount of time specified on the Edit Configuration page (**Admin ▶ Configuration**), the CIMS Server Web Reporting session times out. If the session has timed out, one of the following occurs when you attempt to perform another task:

- If you are a CIMS Web end user and are using auto log on, you are automatically logged out and directed to **Please login**. Simply click **Login** to log on automatically.
- For all others, you are automatically logged out and are returned to the **Login** page to log on again.

## Assigning CIMS Server Folder Security Permissions

**Note** • Your CIMS Server or Windows administrator should have already set the required folder security permissions described in this section. For more information, refer to the *CIMS Server Administrator's Guide*.

CIMS Web users must have the following security permissions for the CIMS Server program folders shown. If CIMS Server is installed in the default location, the folders are in C:\Program Files\CIMSLab.

Folder	Required Permissions
Server	Read & Execute
Server/Web/temp	Full Control
Server/Reports/Published	Read & Execute, Write

## ■ Getting Started

---

### *Assigning CIMS Server Folder Security Permissions*

# Running Reports

This chapter describes how to run reports in CIMS Server Web Reporting.

**Note** • For simplicity, the procedures in this section reflect commands in the Reports menu. However, these procedures are also applicable to spreadsheets. For example, if you are instructed to click Reports ▶ Run Reports, the corresponding sequence for spreadsheets is Spreadsheets ▶ Run Spreadsheets.

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# Introduction to Report Types

There are three types of reports that you can generate using CIMS Server Web Reporting:

- **Standard or Custom Reports.** CIMS Server includes a variety of standard reports, including invoice, budget, summary, trend, and variance reports in report, graph, and spreadsheet format (see [Appendix A, Standard Reports](#)). In most cases, your Crystal Reports Developer will customize these reports for your organization or will create new reports.

The report descriptions and examples used in this guide reflect the standard CIMS Server reports. The parameters, look, and content of reports for your organization might differ.

To run standard and/or custom reports, click **Reports ▶ Run Reports** and follow the steps in [Running Reports](#) on page 2-2

- **CIMS Web User Created Reports.** These reports are created using report templates that are supplied with CIMS Server Web Reporting (see [Templates](#) on page A-96) or developed by your Crystal Reports developer. Template reports differ from the standard or custom reports discussed previously in that CIMS Web users can create reports that contain the data and format that they want directly within the CIMS Server Web Reporting interface.

To create a report, click **Reports ▶ Create a Report** and follow the steps in [Creating and Running CIMS Web User Created Reports](#) on page 2-10.

- **Published Reports.** These reports are created from generated reports. Publishing a report enables other CIMS Web users to view the report with the data as it appeared at the time the report was generated.

To publish a report, follow the steps in [Creating and Viewing Published Reports](#) on page 2-13.

## Running Reports

This section provides the steps for running a report from the CIMS Server Web Reporting application. You can also run and publish reports in batch mode as described in [Creating Published Reports From a Batch Script](#) on page 2-14.

### **To run a report:**

- 1 Click **Reports ▶ Run Reports**. The report page opens displaying reports categorized by groups.
- 2 To expand the group, click + next to the report group that contains the report that you want to run.
- 3 Links to the available reports appear. Click the link for the report that you want to run as shown in example [Figure 2-1](#) on page 2-3.

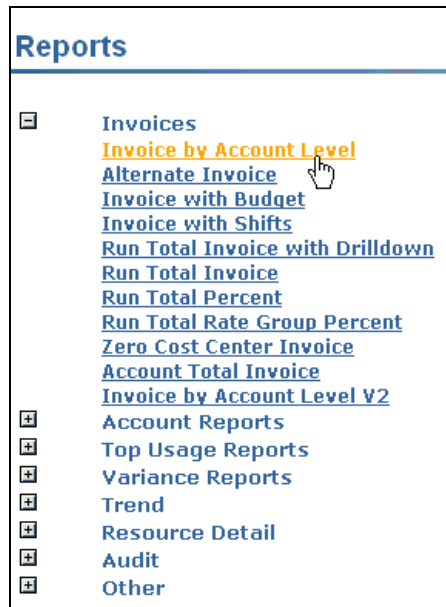


Figure 2-1 • Report Links

- 4 If the report requires parameters, enter the parameters on the parameters page and then click **OK** to generate the report. For a description of the standard parameters supplied by CIMS Lab, see *Using Report Parameters* on page 2-4.

You can do many things with the information in the generated report such as drill down on data and print and save the report. For more information, see *Chapter 3, Working with Reports*.

---

**Note** • Drilldown is not available for graphs, spreadsheets, or CIMS Web user created reports.

---

You can also publish the report so that others can view it in CIMS Server Web Reporting. Published reports are saved with the data that was generated at the time the reports were published. For more information, see *Publishing Reports* on page 2-13.

## Using Report Parameters

Table 2-1 provides a description of the report parameters that are supplied by CIMS Lab.

Your reports might use other parameters that are custom for your site. For information about creating custom parameters, see *Creating Custom Report and Transaction Parameters* on page 4-9.

The parameter values that you enter are stored in a cookie so that you do not have to re-enter the values each time you run a report (unless you want to change the values).

---

**Note** • Parameters vary by report.

---

Parameter	Description
Audit Type	The type of changes that you want to view in CIMS Client, Rate, and Transaction table audit reports: all changes, additions, updates, or deletions.
Calendar Period	The calendar period for the data that you want to appear in the report.
Display Graph	If this parameter is Y (the default), a graph appears before the report. If this parameter is N, the graph does not appear.
From/To	The beginning and end dates for the data that you want to appear in the report.
Identifier	This parameter provides data by the selected identifier. An <i>identifier</i> is a unique key that denotes the source of a resource that has been consumed (for example, a device name, server name, user ID, phone number).

**Table 2-1 • Report Parameters**



Parameter	Description
Invoice Level	<p>The account code level that you want to view in the report. For example, the account code AABBBBCCC might contain three levels: the two-digit company code AA, the 6-digit division code AABBBB, and the 9-digit department code AABBBBCCC. The resource use and charge data will reflect the level that you select.</p> <p>For more information about account codes, see <a href="#">About Account Codes</a> on page 2-8.</p>
Invoice Number	<p>Some invoice reports contain separate invoices for the account codes selected. If this parameter is blank (the default), invoice numbering begins with 1. Use this parameter to begin invoice numbering from a another number (if needed).</p> <p>Your CIMS Server administrator determines whether this parameter appears for invoices. If this parameter is not available, the invoice number set in the CIMS Config Options table in the database is used and invoice numbers continue to increase sequentially each time you run an invoice. For example, if the last invoice in a report was 99, the next invoice that you run will begin with invoice number 100. For more information, refer to the <i>CIMS Server Administrator's Guide</i>.</p>
Prorate	<p>The amount that you want to prorate across accounts in proration reports.</p>
Rate Code	<p>This parameter provides data by the selected rate code. A <i>rate code</i> represents resource units consumed (for example, CPU time used, pages printed, e-mail message sent).</p>

**Table 2-1 • Report Parameters (continued)**

Parameter	Description
Rate Group	This parameter provides data for the selected rate group. A rate group contains rate codes.
Report Month	The month for the data that you want to appear in the report.
Report Year	The year for the data that you want to appear in the report.
Set the Date Range	The range of time for the data that you want to appear in the report.
Start and End Value	The starting and ending identifier value.
Starting and Ending Account Code	<p>This parameter works in conjunction with the Invoice Level parameter and specifies the account codes for that level that appear in the report.</p> <p>If you want all account codes for that level to appear in the report, click <b>Lowest Possible Account</b> for the starting account code and <b>Highest Possible Account</b> for the ending account code.</p> <p>If you want specific account codes, click the appropriate start and end codes or click <b>Custom</b> and type the start and end codes.</p>
Transaction ID Start and End	This parameter provides data by the selected CICS transaction ID range. For example, if you want data for the following three transaction IDs: CESF, DEGV, and TINQ, type CESF as the start and TINQ as the end.
TopN	This parameter specifies the number of account codes that appear in a report or the drilldown for a report. For example, if you type 1, only the account code that used the most resources or incurred the most charges appears. If you type 2, the highest and second highest account codes appear.

**Table 2-1 • Report Parameters (continued)**

Parameter	Description
Transaction Type	This parameter provides data for the selected transaction type. For more information about transactions, see <i>Chapter 5, Using Transactions</i> .
Zero Cost Processing Option	The Zero Cost Invoice report may be processed in two different ways: <ul style="list-style-type: none"> <li>■ <b>A-Factor Total.</b> This factors the invoice total by the zero cost amount.</li> <li>■ <b>B-Factor Rates.</b> This factors each resource rate by the zero cost amount.</li> </ul>
Zero Cost Amount	The zero cost amount. You can type this amount with or without the decimal point. For example, 100000 or 100000.00. For more information about zero cost, refer to the <i>CIMS Server Administrator's Guide</i> .

**Table 2-1 • Report Parameters (continued)**

## About Account Codes

An account code is an alphanumeric string that identifies the hierarchy of a resource record. Account codes contain sufficient information to describe what resource was used by what entity. These codes may contain levels such as Company, Division, Cost Center, etc.

For example, if your organization cost center structure is:

- Level 1            Company
- Level 2            Division
- Level 3            Department within division
- Level 4            Cost Center within department
- Level 5            Application within cost center

Your account code structure might be designed as shown in [Table 2-2](#).

DESCRIPTION (LEVEL)	EXAMPLE
<b>Full Account Code</b>	AABBBBCCDDAPP1
<b>Company Code</b>	AA
<b>Division Code</b>	BBBB
<b>Department Code</b>	CCC
<b>Cost Center Code</b>	DDD
<b>Application Code</b>	APP1

**Table 2-2 • Example Account Code Structure**

The account codes and account code levels that appear on the parameters page are set by your CIMS Server administrator. For more information, refer to the *CIMS Server Administrator's Guide*.

## Example: Running a Report

Figure 2-2 provides an example of the parameters used to create an Invoice by Account Level report for the month of June. Figure 2-3 shows the resulting report.

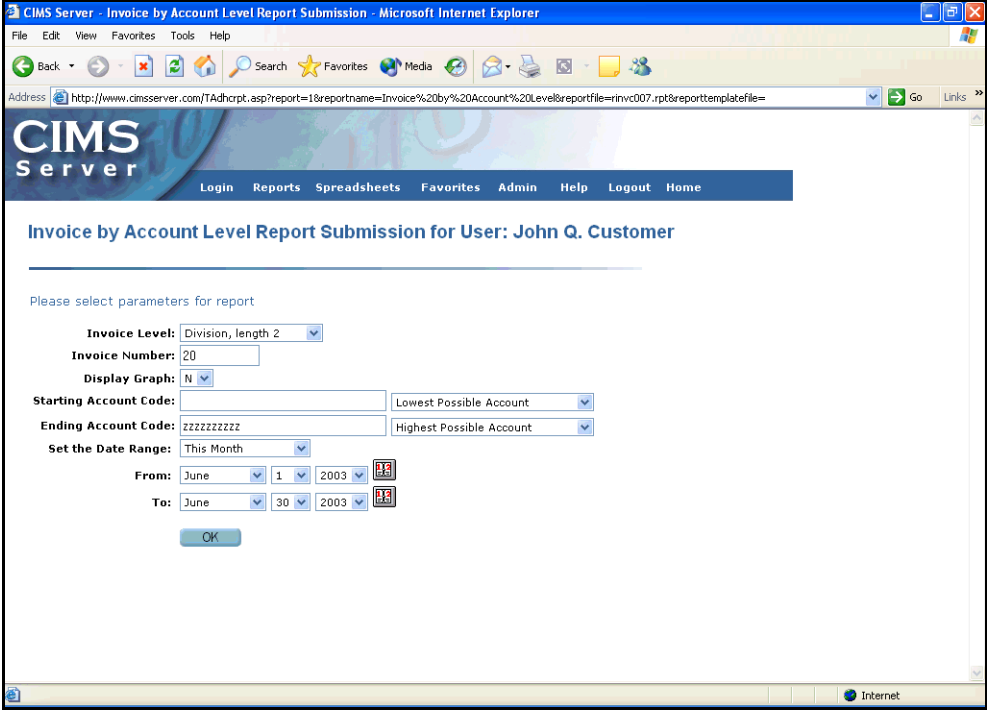


Figure 2-2 • Example Parameters for the Invoice by Account Level Report

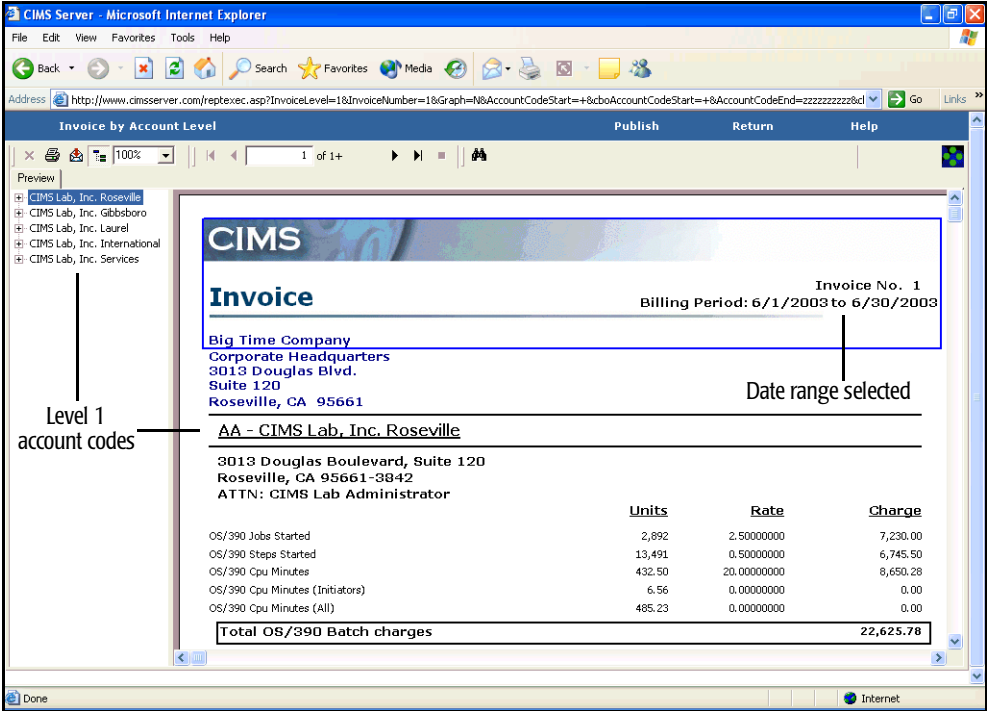


Figure 2-3 • Example Invoice by Account Level Report

# Creating and Running CIMS Web User Created Reports

This section describes how to create and run reports using the report templates provided by CIMS Lab. Note that templates created by your Crystal Reports developer may differ.

## Creating or Updating a CIMS Web User Created Report

The report templates provided by CIMS Lab enable you to choose the rate codes that you want to appear in the report. You can specify that the report display the resource *usage* per rate code, the resource *cost* per rate code, or both usage and cost. All cost and usage is displayed by account code and rate code. Once you have created a report, you can update the report (for example, select different rate codes) at any time.

### *To create or update a report:*

- 1 Click **Reports** ▶ **Create a Report**. The Build a Report page opens.
- 2 Enter or update the following parameters for the report:
  - **Go to Report**. Click **New Report** to create a new report or click an existing report to update the report.
  - **Report Type**. Click the report type that you want to create:
    - **Resource** (resource usage by account and rate code description)
    - **Cost** (charges by account and rate code description)
    - **Both** (resource and cost information)
  - **Report Name (required)**. The name that you want to assign to the report.
  - **Report Description**. A brief description of the report.
  - **Make visible to all users**. If this check box *is not* selected (the default), the report is available only to those in your user group. If this check box is selected, the report is available to all CIMS Web users.
  - **Resource**. In the column select boxes, choose the rate code that you want to appear in that column. You can choose up to four columns/rate codes for Both reports and eight columns/rate codes for Cost or Resource reports.
  - **Decimal Places**. Type the number of decimal digits that you want to appear in the resource usage amount.
- 3 If you are creating a new report, click **Add**. If you are updating a report, click **Update**.

Once created, reports appear on the Reports page (**Reports** ▶ **Run Reports**) under a report group determined by your CIMS Server administrator (see [Figure 2-4](#) for an example). For more information about setting the report group for these reports, refer to the *CIMS Server Administrator's Guide*.

## Running a Web User Created Report

### To run a report:

- 1 Click **Reports** ▶ **Run Reports**. The Reports page opens displaying reports categorized by groups.
- 2 Expand the report group that contains the created reports, and then click the report that you want to run as shown in example [Figure 2-4](#).



Figure 2-4 • Example Links for Web User Created Reports

- 3 Enter the parameters for the report on the parameters page and then click **OK** to generate the report. For a description of the parameters, see [Using Report Parameters](#) on page 2-4.

You can do many things with the information in the generated report such print and save the report. For more information, see [Chapter 3, Working with Reports](#).

You can also publish the report so that others can view it in CIMS Server Web Reporting. Published reports are saved with the data that was generated at the time the reports were published. For more information, see [Publishing Reports](#) on page 2-13.

## Deleting a Web User Created Report

### To delete a report:

- 1 Click **Reports** ▶ **Create a Report**.
- 2 On the Build a Report page, click the report in the **Go to Report** select box.
- 3 Click **Delete** and then click **OK** in the confirmation dialog box to delete the report.

## Example: Creating and Running a Web User Created Report

Figure 2-5 shows the creation of a Both report called Job Report. Figure 2-6 shows the resulting report that has been run from the Reports menu.

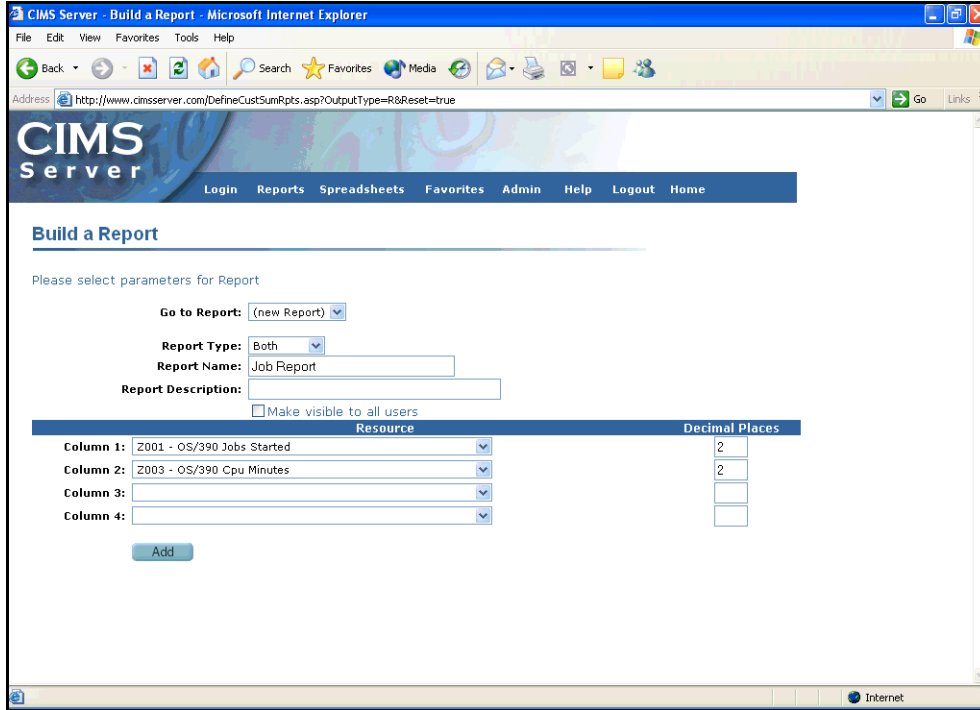


Figure 2-5 • Example—Creating a Report

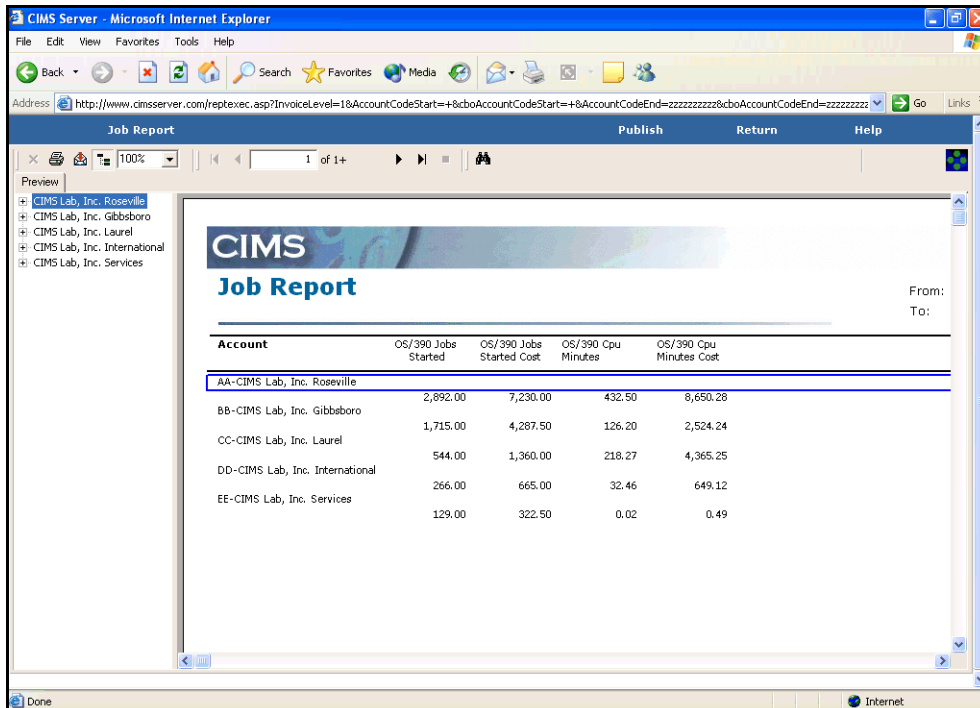


Figure 2-6 • Example Web User Created Report



## Creating and Viewing Published Reports

Once you have generated a report, you can publish the report. Publishing a report enables other CIMS Web users to view the report without having to regenerate it. You cannot change the data in published reports.

---

**Note** • Reports that involve a wide range of dates or account codes can require excessive system time and resources to generate. Consider publishing or saving these reports for quicker access (see [Publishing Reports vs. Saving Reports](#)).

---

Published reports can be created directly within CIMS Server Web Reporting or automatically via a batch file (see [Creating Published Reports From a Batch Script](#) on page 2-14).

### Publishing Reports vs. Saving Reports

Both publishing and saving a report saves a report that you have generated. However, publishing a report saves the report in .rpt or .xls (for a spreadsheet) format on the Web server so that you and others can view it from within CIMS Server Web Reporting. (Your CIMS Server administrator determines where the published reports are stored on the server. For more information, refer to the *CIMS Server Administrator's Guide*.)

Saving a report saves the report to the local or network drive that you choose in the format that you choose. In this case, the report is not accessible via the CIMS Server Web Reporting interface. For more information about saving reports, see [Saving Reports](#) on page 3-8.

## Publishing Reports

### *To publish a report:*

- 1 Run a report.
- 2 On the report page, click **Publish**. The Save Report window appears. Enter the following:
  - **Report File.** The file name of the published report. You can use the default file name or type another name. If you want to include the report in your favorites list, you need to use the default file name (see [Working with Favorite Reports](#) on page 4-2).
  - **Location.** Location specifies the subfolder name for the published reports within the overall published reports folder. For example, if you click **User**, the published reports are stored in the user subfolder within the published reports folder.

Location also determines the accessibility of the report as follows:

- **User.** The report is available to the specified user only. If you are a CIMS Web administrator, you can choose any user ID within your user group. If you are not an administrator, the user defaults to your user ID.
- **Group.** The report is available to those in your current user group.
- **Account.** The report is available to CIMS users in a group that is allowed to view the selected client account code. (To enable client account code access to a group, refer to the *CIMS Server Administrator's Guide*). The report is stored in a subfolder with the same name as the account code that you click in the account list. The **Account** option appears only if you are a CIMS Web administrator.
- **Global.** The report is available to anyone using CIMS Server Web Reporting. The **Global** option appears only if you are a CIMS Web administrator.

---

**Note** • The preceding access permissions are applicable only within CIMS Server Web Reporting—it does not affect the ability of Windows users to access reports from the hard drive. If you want to control access to reports via Windows, you need to set Windows security for the folders that contain the published reports. CIMS Web users, however, must have the permissions shown in *Assigning CIMS Server Folder Security Permissions* on page 1-7.

---

- **Reporting Period.** The date period assigned to the report for storage and retrieval purposes. This date period does not affect the date of the data in the report.
  - **Replace Existing Report.** Select this check box to replace any existing published report with the same file name with this report.
- 3 Click **OK** to publish the new report to the location that you specified.

## Creating Published Reports From a Batch Script

The CIMS Server administrator can use the `BatchReport.wsf` script to run and publish reports in batch mode and direct the reports to the proper locations within the published reports folder. If CIMS Server is installed in the default location, this script is in `C:\Program Files\CIMSLab\Scripts\Batch Reporting`. For more information about this script, refer to the *CIMS Server Administrator's Guide*.

## Viewing Published Reports

---

**Note** • Links to published reports that are designated as favorite reports appear in the left side of the home page. Click these links to quickly access these reports. For more information about favorite reports, see *Working with Favorite Reports* on page 4-2.

---

### *To view a published report:*

- 1 Click **Reports** ▶ **View Published Reports**.
- 2 The **Published Reports** page opens. The reports that appear on this page are determined by the location that was set when the report was published (see *Publishing Reports* on page 2-13) and the **Date Range** and **Location** parameters on the page (see *Filtering the List of Published Reports* on page 2-16).
- 3 Click the report date, name, or location (if present, see the following note) to open the report.

---

**Note** • By default, published reports include the full path to the folder that contains the report. You can choose to show or hide the path (see *page 4-5*).

---

You can drill down on some items in a published report (see *Drilling Down in Reports* on page 3-5).

### Filtering the List of Published Reports

You can filter the list of published reports using the **Date Range** and **Location** parameters as follows.

**Date Range** This parameter lists reports by the reporting period that was assigned when the published report was created (see *Publishing Reports* on page 2-13). This may or may not be the date of the data in the report.

**From and To** Enter the beginning and end date of listed reports if you cannot select the date that you want from **Date Range**.



Click the Calendar button to choose a beginning or end date for listed reports.

**Location** Click one of the following:

- **All.** All published reports that the user can view appear.
- **Global.** All published reports that were assigned to a Global location appear.
- **User.** All published reports that were assigned to a User location that the user can view appear.
- **Group.** All published reports that were assigned to a Group location that the user can view appear.
- **Account.** All published reports that were assigned to an Account location appear. If you click a specific account code, published reports for only that account code appear.

### Sorting the List of Published Reports

To sort the list of published reports by date or report, click **Date** or **Reports**, respectively.

## Example: Creating and Viewing a Published Report

Figure 2-7 shows the creation of a published Invoice by Account Level report.

Figure 2-8 shows the link for the resulting report on the Published Reports page (Reports ► View Published Reports).

**Save Report Invoice by Account Level**

Please set parameters to save report

Report File:  .rpt

Location

User

Group

Account

Global

Reporting Period:

Replace existing Report?

Figure 2-7 • Example—Creating a Published Report

**CIMS Server**

Login Reports Spreadsheets Favorites Admin Help Logout Home

**Published Reports**

Date Range:  Location:

From:

To:

Date	Reports	Location
6/5/2003 10:53:29 AM	<a href="#">Invoice by Account Level</a>	<a href="#">http://www.cimsserver.com/C:/Program Files/CIMSLab/Server/Reports/Published/UserTest1200306/Reports/rinvc007.rpt</a>

Figure 2-8 • Example Published Report Link

## ■ **Running Reports**

---

*Creating and Viewing Published Reports*

---

# Working with Reports

This chapter describes how to navigate and use generated reports.

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Navigating Using the Group Tree .....	3-5
Drilling Down in Reports .....	3-5
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# Working with Reports

This section describes how to navigate and use reports. Except where noted, the information in this section is applicable to all report types.

## About the Report Interface

Figure 3-1 provides an introduction to the report interface. The use of the interface, including how to use the toolbar, is discussed in the following sections.

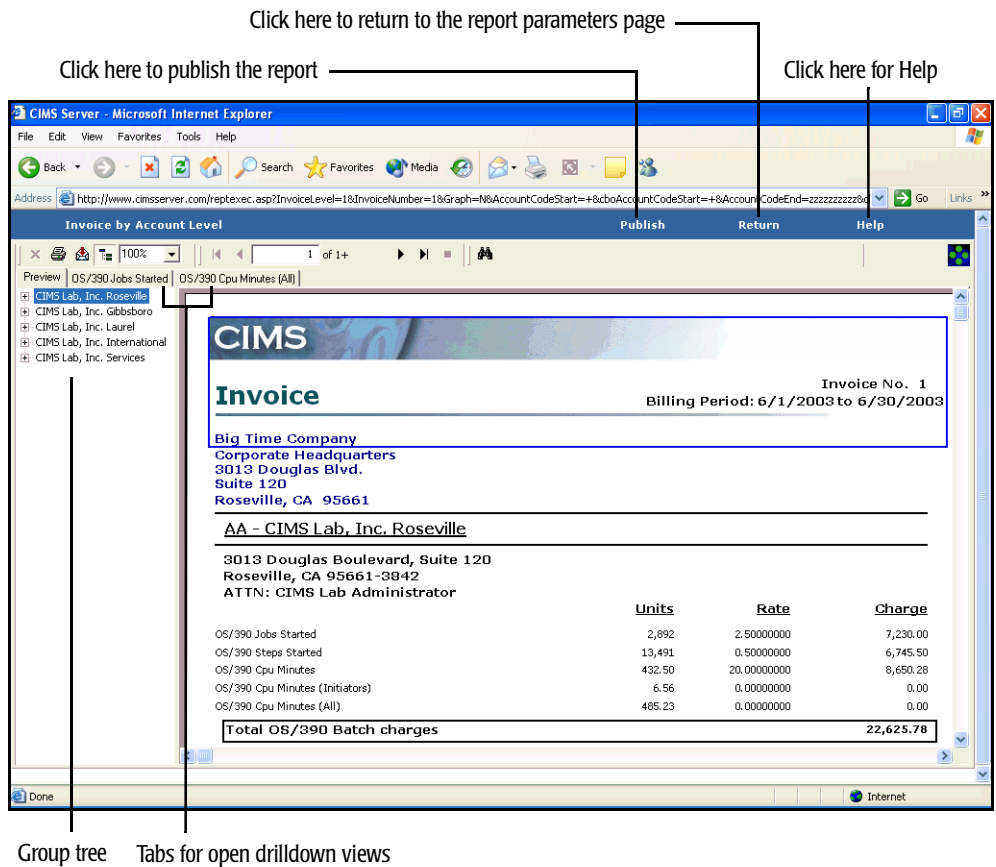


Figure 3-1 • Report Interface



## Using the Reporting Toolbar

This section provides an overview of the report toolbar options.

### Closing the Detailed View

To close a drilldown view (see [page 3-5](#)), click the Close button. *Note that this button is available only at the drilldown level.*



### Printing a Report

To print a report, click the Print button.



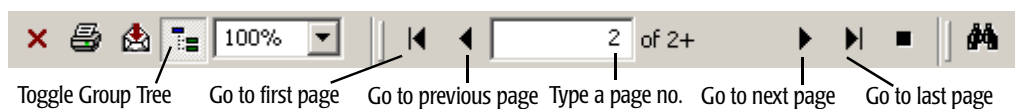
### Saving a Report

To save a report, click the Export button. For more information about saving reports, see [page 3-8](#).



### Navigating Reports

To navigate through the pages of a report, click the page arrows or type a page number. To open and close the Group Tree that appears to the left of the report, click the Toggle Group Tree button. For more information about the Group Tree, see [page 3-5](#).



### Zooming In or Out

You can enlarge or shrink the size of information displayed in a report. In the Zoom select box, click the appropriate selection to reduce or enlarge the size of displayed information.



Zoom select box

### Stopping a Report from Loading

To stop a report from loading, click the Stop Loading button. This button is only available when the report is loading.



Stop Loading button

### Searching Text in a Report

To search for text in the report, click the Search Text button.




Search Text button

## Navigating Using the Group Tree

The Group Tree appears in the **Preview** tab to the left of the report (see [Figure 3-1](#) on page 3-2). This tree view enables you to navigate down to data.

---

**Note** • If the Group Tree does not appear, click the Toggle Group Tree button .


Similar to the manner in which Windows Explorer displays folders and files, items in the report are listed in the **Preview** tab as an expandable hierarchy.

To view the item in the report, click the item. To expand or collapse an item, click the + or - beside the item.

## Drilling Down in Reports


For certain items in a report, you can drill down to view information specific to that item or you can drill down to generate a separate report for the item. For example, in invoices, you can drill down on resource units to open a report that breaks out the units by identifier (see [Report Drilldown Example](#) on page 3-6).

### To drill down in a report:

If the cursor icon becomes a magnifying glass  when you point to an item in a report, you can drill down to more detailed information about that item.

- 1 Place the cursor on the appropriate item in the report. For example, a rate or charge.
- 2 Double-click the item. Detailed information about the item appears.
- 3 You can continue to drill down where allowed to view additional detailed information.

### To drill down to another report:

If the cursor icon becomes a hand  when you point to an item in a report, you can drill down to another report for that item.


- 1 Place the cursor on the appropriate item in the report. For example, an account code or resource units.
- 2 Click the item. Depending upon item that you click, the report either appears in the same browser window or in a separate window. If the report opens in a separate window, the parameters page for the report appears first.

---


**Note** • Drilldown to another report is available only in invoice reports.

---

**To close the drilldown view (same window):**

Click the close button  on the report toolbar or right-click the drilldown view tab and then click Close Current Drill Down View.

**To close a drilldown report in a separate window:**

Click the close button in the browser window .

## Report Drill Down Example

The drill down example shown in example [Figure 3-2](#) shows a drill down on resource units.

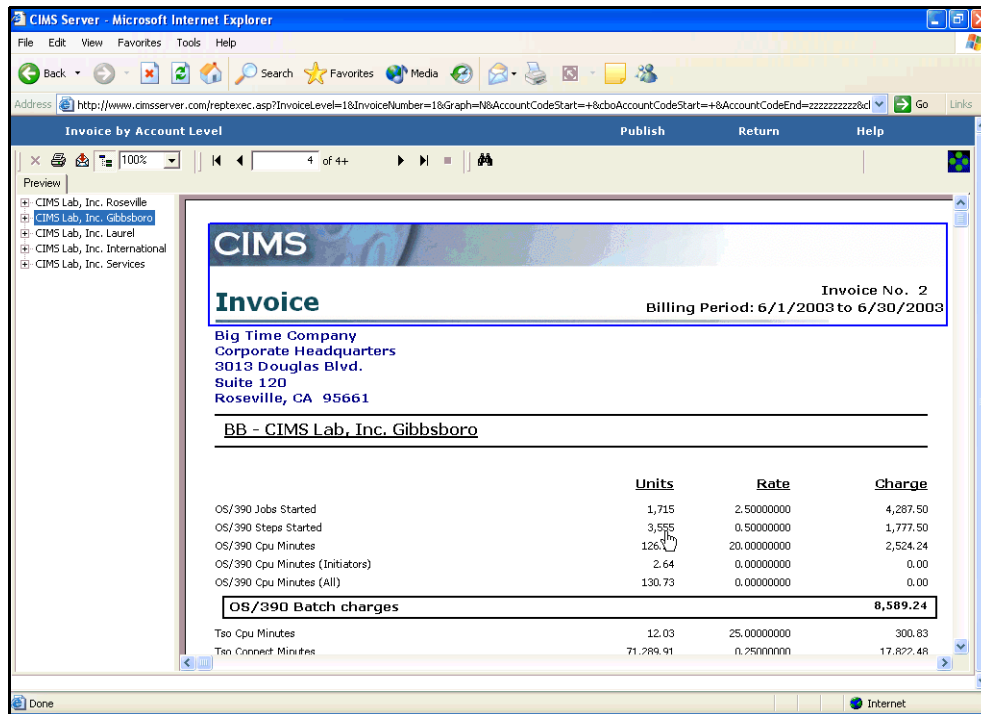


Figure 3-2 • Drill Down on Units

The parameters page for the drilldown report opens as shown in example [Figure 3-3](#) on page 3-7. This page enables you to break down and view the resource units by identifier or identifiers.

Note that the possible identifiers that you can select include **Usage Dates** and **Accounting Dates**. Usage dates are the actual start and end dates in the CIMS Server Resource Records. Accounting dates are derived from the usage end date as described in the *CIMS Server Administrator's Guide*.

In [Figure 3-3](#), the identifier **Usage Dates** and **Jobname** are selected.

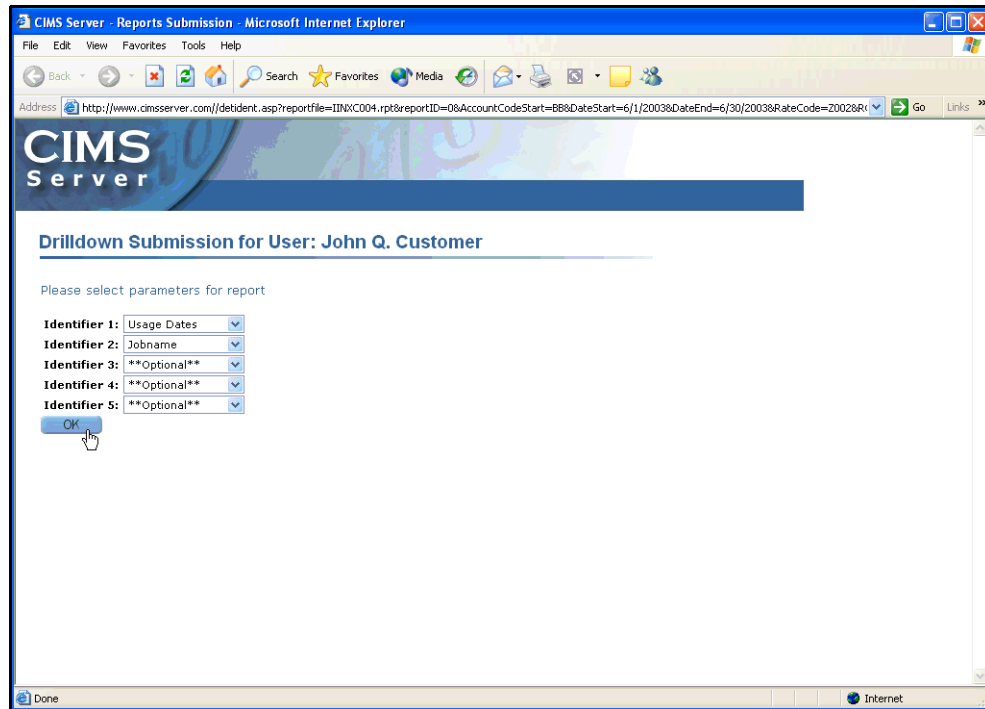


Figure 3-3 • Select Report Parameters

Figure 3-4 shows the resulting report. The units are broken down by usage dates (in this example, there is only one usage date range) and job names.

Usage Dates	
Jobname	
<b>5/25/2003-6/8/2003</b>	
CNMPROC	1
CNMPSSI	1
DB2IDBM1	1
DB2IMSTR	1
DB2ISPAS	1
FTPD1	3
IRLMPROC	1
OAM	1
TCP/IP	1
TSO	1
<b>5/25/2003-6/8/2003</b>	<b>12</b>

Figure 3-4 • Drilldown by Identifier Report

## Publishing Reports

See [Publishing Reports](#) on page 2-13.

## Saving Reports

---

**Note** • Saving a report is distinct from the process of publishing a report. Saving a report saves the report to a local or network drive. When you save a report, users can access the report from this location. When you publish a report, users can access the report directly from the CIMS Server Web Reporting application. For more information about published reports, see [Creating and Viewing Published Reports](#) on page 2-13.

---


CIMS Server Web Reporting enables you to save reports that you generate so that you or other users can access the report again without regenerating the report. For example, if you run a daily report that others need to view, you can generate the report each day and save it in an accessible drive or folder.

---

**Note** • Reports that involve a wide range of dates or account codes can require excessive system time and resources to generate. Consider publishing or saving these reports for quicker access.

---

### *To save a report:*

- 1 On the report page, click the Export button on the report toolbar .
- 2 In the Report Viewer Export dialog box, enter a path and file name for the export file. If you want to share the saved report with others, choose a network drive.
- 3 If you want to save the report in a format other than the default, click the format in the **Save as type** box.
- 4 Click **Save**. The system saves your report and asks if you would like to open the saved report. If you click **Yes**, the report opens in the appropriate program for the format you selected.

## Copying Text From a Report

To copy an item in a report, right-click the item, and then click **Copy**. The system places the text in the Windows clipboard, enabling you to paste the text into other applications.

# Working with Spreadsheets

This section describes how to use CIMS Server spreadsheets. When you run a spreadsheet, CIMS Server Web Reporting presents the report data in Microsoft Excel. You must have Excel installed on the client running the spreadsheet.

## About the Spreadsheet Interface

Figure 3-5 provides an introduction to the spreadsheet interface. You can view and/or publish the spreadsheet from this interface or you can open the spreadsheet in Microsoft Excel and save, print, and/or edit the spreadsheet.

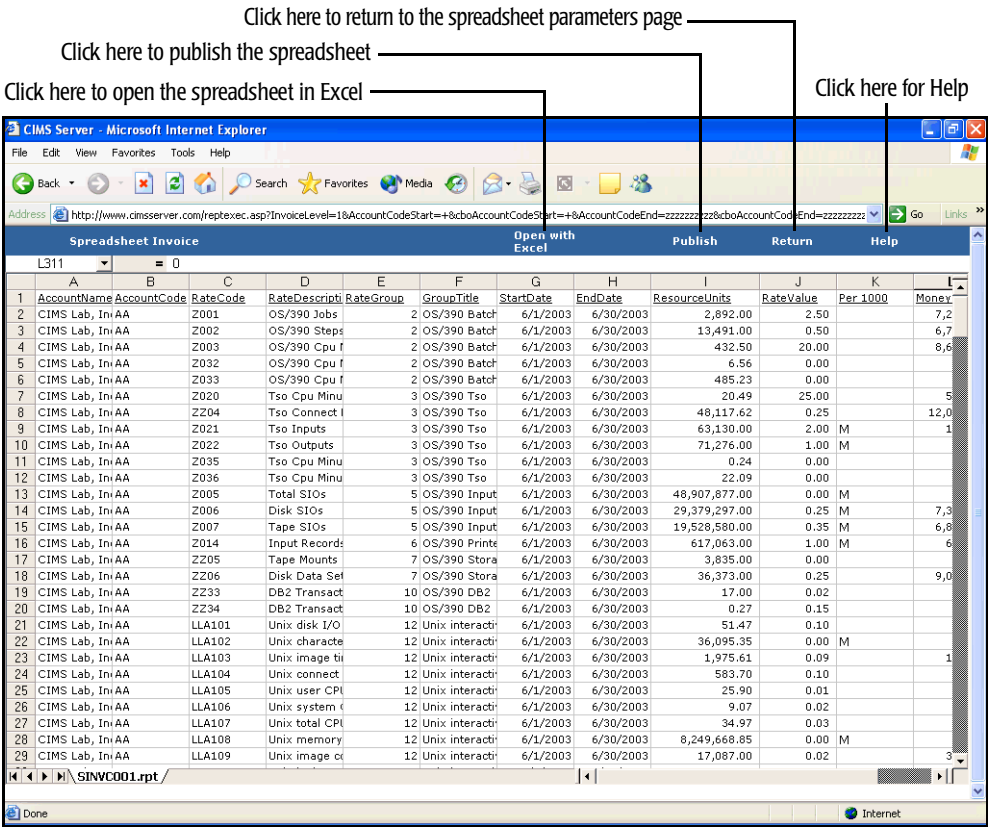


Figure 3-5 • Spreadsheet Interface

## Publishing Spreadsheets

See *Publishing Reports* on page 2-13.

### Opening a Spreadsheet in Excel

#### *To open a spreadsheet in Excel:*

Click **Open with Excel**.

The spreadsheet opens in Excel within the Web browser. You can then save, print, and/or edit the spreadsheet using the Excel commands and toolbar.

If the Excel toolbar does not appear, click the **Tools** button  on the browser toolbar.

### Working with Spreadsheets in Microsoft Excel

#### *To save a spreadsheet:*

- 1 Click **File** ▶ **Save As** on the browser menu bar.
- 2 Navigate to the folder that you want to save the file in, and then enter the file name and file type in the **File name** and **Save as type** select boxes.
- 3 Click **Save** to save the file to the location you selected.

---

**Note** • You need to click **Save As** each time you want to save the spreadsheet. Clicking the **Save** button on the Excel toolbar will not save the spreadsheet.

---

For more information about the benefits of saving spreadsheets rather than regenerating them, see *Saving Reports* on page 3-8.

#### *To print a spreadsheet:*

- 1 Click **File** ▶ **Print** on the browser menu bar or the print button on the Excel toolbar.

#### *To edit a spreadsheet:*

Edit the spreadsheet as required and then follow the steps in *To save a spreadsheet*.

#### *To close a spreadsheet in Excel:*

Click **Back** to return to the CIMS Server Web Reporting spreadsheet interface.

---

**Note** • Any changes you made to the spreadsheet while the report was open in Excel are not saved in CIMS Server Web Reporting.

---



---

# Administering CIMS Server Web Reporting

This chapter describes user-specific and system-wide configuration settings for CIMS Server Web Reporting. It also provides information about creating custom report parameters.

---

**Note** • For simplicity, the procedures in this section reflect commands for reports. However, these procedures are also applicable to spreadsheets. For example, if you are instructed to click Favorites ▶ Add ▶ Reports, the corresponding sequence for spreadsheets is Favorites ▶ Add ▶ Spreadsheets.

---

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## Configuring User-Specific Settings

The settings described in this section can be different for each CIMS Web user. These settings are not applied system wide.

### Working with Favorite Reports

You can use the Favorites feature to create shortcuts (maximum of five) to reports that you frequently access.

---

**Note** • When you add a report as a favorite, any published reports created from that report are also automatically included as favorites if the default file name was used when the published reports were created (see *Publishing Reports* on page 2-13). If a file name other than the default was used for a published report, the system will not add the report as a favorite and you cannot add the report manually.

---

#### *To add a report as a favorite:*

- 1 Click Favorites ▶ Add ▶ Reports.
- 2 On the Maintain Favorites–Add Reports page, expand the report group that contains the report that you want, and then click the report.

The report is designated as a favorite as shown in example *Figure 4-1* and appears on the Favorites page (see *To access a favorite report:* on page 4-3).

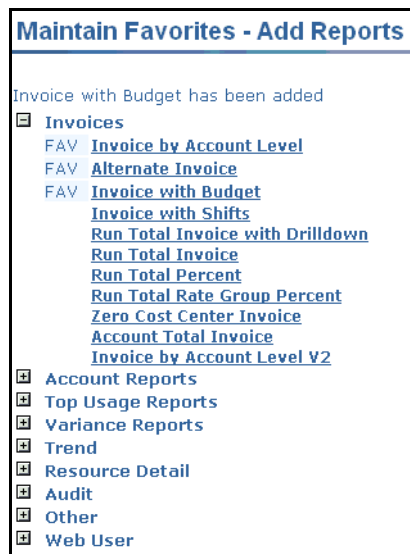
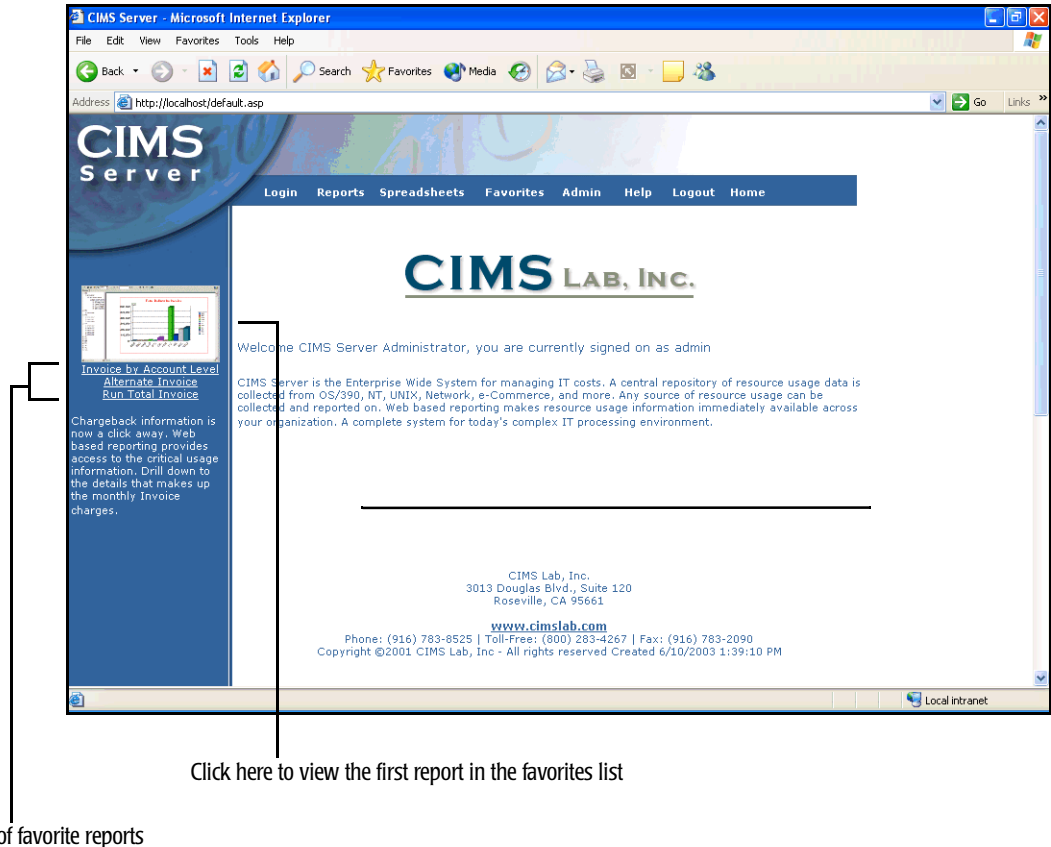


Figure 4-1 • Favorite Report Links

**To access a favorite report:**

Click the report link in the left frame of the home page (Figure 4-2). If the report has a correlating published report for the current period, the most current published report opens.

If the favorite report *does not* have a correlating published report for the current period, the parameters page for the report opens.



**Figure 4-2 • Favorite Report Links**

You can also access favorite reports as follows:

**1 Click Favorites ▶ Reports.**

The Favorites page opens displaying a hierarchy of reports that you have saved as favorites.

**2 Navigate to the appropriate report (see Figure 4-3 on page 4-4) and expand it.**

- 3 Do one of the following:
  - Click **Run Report** to run the report.
  - Click a published report (if available) to view the report. You can hide or display the folder path that appears for the published report. See *Showing or Hiding Folder Paths for Published Reports* on page 4-5.

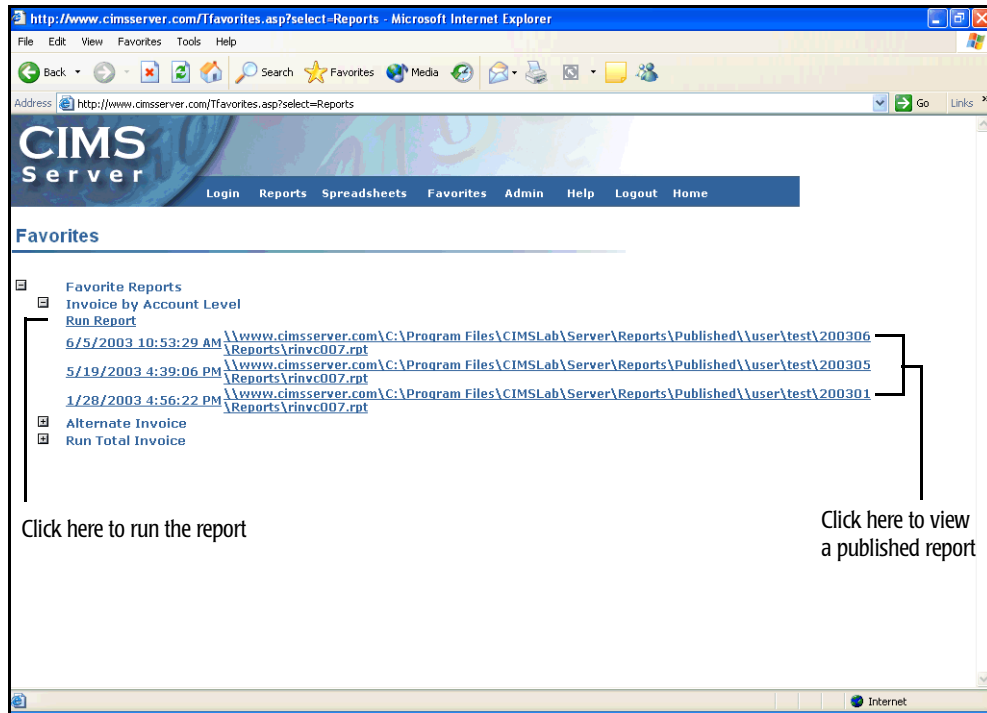


Figure 4-3 • Navigating to a Favorite Report

#### To remove a favorite report:

- 1 Click Favorites ► Delete.
- 2 On the Maintain Favorites–Remove Reports page, click the report that you want to remove.

The report is removed from Favorites list.

---

**Note** • Removing a favorite report simply removes the report from your list of favorites. *It does not delete the report from the system.*

---

## Showing or Hiding Folder Paths for Published Reports

By default, published reports that appear on the Published Reports and Favorites page include the full path to the folder that contains the report. You can choose to show or hide these paths.

### *To hide or display folder paths of reports:*

- 1** Click **Admin** ▶ **User Options**.
- 2** On the Set User Options page, do the following:
  - To show the full folder paths on the Published Reports and/or Favorites pages, click **Y** in the appropriate box.
  - To hide folder paths, click **N** in the appropriate box.
- 3** Click **Update**.

The system shows or hides the directory paths as you requested.

## Choosing a Crystal Report Viewer

In most cases, your CIMS Server administrator will have set the appropriate Crystal Report viewer for your browser. (For more information, refer to the *CIMS Server Administrator's Guide*.) However, you can change the viewer as needed from CIMS Server Web Reporting. The viewer that you select should be based on the specifics of your browser and computer.

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**Note** • The following steps are applicable to selecting a viewer for an individual CIMS Web user only. To set the viewer for all users, see *Configuring System-Wide Settings* on page 4-7. CIMS Server Web Reporting uses the viewer set for the individual user if it differs from viewer set for all users.

---

### To choose a Crystal Report viewer:

- 1 Click **Admin** ▶ **User Options**.
- 2 On the Set User Options page, click one of the following in the **Crystal Web Viewer** select box:
  - **Default**. This option uses the viewer set on the Edit Configuration page (see [page 4-7](#)).
  - **ActiveX**. This option works only in Internet Explorer.
  - **Java using Browser JVM**. This option works in Netscape Navigator or Internet Explorer.
  - **HTML**. This option is appropriate for users with lower powered computers with minimal memory (64MB or less). It offers a smaller feature set.
- 3 Click **Update** to change the viewer.

## Configuring System-Wide Settings

You must be a CIMS Web administrator to edit the configuration settings described in the section. If you are not an administrator, you can view these settings in a read-only capacity.

These configuration settings are saved to the CIMS Server database and are applied to *all* CIMS Web users.

### *To edit the configuration settings:*

---

**Note** • Many of the following settings can also be configured using CIMS Server Administrator.

---

- 1 Click **Admin** ▶ **Configuration**.
- 2 Edit the settings on the Edit Configuration page as follows:
  - **Web Site UID (not editable)**. This is the Unique Identifier (UID) for the database or Default. For more information about using UIDs for databases, refer to the *CIMS Server Administrator's Guide*.
  - **ODBC DSN (not editable)**. The name of the ODBC-compliant data source that CIMS Server Web Reporting is using.
  - **Localization ID (LCID) (not editable)**. The LCID assigned to the user's regional setting in Windows.
  - **Organization Name and Address Fields**. Address information for your organization. This information appears in the standard invoices that ship with CIMS Server.
  - **Invoice Number**. This invoice number is used only if the **Invoice Number** report parameter is not available (see [page 2-5](#)).
  - **Session Timeout Minutes**. The number of minutes of inactivity that are allowed before users are automatically logged out of CIMS Server Web Reporting.

---

**Note** • If you change this setting, the change will not take effect during the same session. You need to log out and the log on again.

---

- **Crystal Web Viewer.** This setting determines the particular Crystal Viewer used to view reports. You can choose one of the following:
    - **Default.** This option uses the ActiveX setting (see the following).
    - **ActiveX.** This option works only in Internet Explorer.
    - **Java using Browser JVM.** This option works in Netscape Navigator or Internet Explorer.
    - **HTML.** This option is appropriate for users with lower powered machines with minimal memory (64MB or less). It offers a smaller feature set.
  - **Display Account Code Selection to Level.** This setting determines the level of account codes that appear in the **Starting Account Code** and **Ending Account Code** lists on a report parameters page. For example, if you type 1, only the top level account codes appear. However, if you type 3, the first, second, and third level account codes appear.
  - **Current Database Version (not editable).** The version of the CIMS database currently used by CIMS Server.
  - **Last Reporting Date.** The last reporting date that CIMS Web end users can view. For example, if the date is 06/30/03, end users cannot view reports for dates after June 2003. CIMS Web administrators can view reports for any date.
- 3 When you are finished, click **Update Configuration** to change the settings.

---

**Note** • Update Configuration also refreshes additional configuration options that are set in CIMS Server Administrator and stored in the Web server cache. For more information about the configuration options that you can set for CIMS Server Web Reporting, refer to the *CIMS Server Administrator's Guide*.

---

### About Updating Identifiers

A key feature of viewing invoices in CIMS Server Web Reporting is the ability to drill down on the units consumed for a resource by identifier. This feature uses the CIMS Rate Identifiers table, which contains the rate codes that are processed from the input resource file(s) and correlates them to their corresponding identifier names in the CIMS Ident table.

If the identifiers in the CIMS Server Resource File changed and/or a rate code or codes in the input file have changed, the CIMS Rate Identifiers table will retain unused data in addition to the current data. Although this does not cause processing problems, the table can accumulate a large amount of data. You can click **Update Rate Identifiers Cache** to update the table so that it contains only the current data; however, in most cases this step will already be completed by your CIMS Server administrator.

For more information about maintaining identifiers, refer to the *CIMS Server Administrator's Guide*.



## Creating Custom Report and Transaction Parameters

The standard reports provided with CIMS Server use Active Server Pages (*ASP*) to provide report and transaction parameters. If needed, you can create custom parameters using either ASP or parameter fields in Crystal Reports.

For assistance creating custom report parameters, contact CIMS Lab (see *Contacting Technical Support* on page 6-5).

### Creating Parameters Using ASP

You can modify an existing parameter page to create a custom parameter. For convenience, CIMS Lab recommends that you modify the `parmRateCode.asp` parameter. If CIMS Server was installed in the default location, this page is in `C:\Program Files\CIMSLab\Server\Web`.

The parameter field name defined in the report, the ASP file name, and the control name for the parameter within the page must match. If the ASP file name is `parmABC.asp`, the parameter field name must be `ABC` (or `@ABC` if the parameter is not used in a stored procedure), and the control name must be `'ABC'` (for example, `SELECT NAME='ABC'`).

### Creating Parameters Using Parameter Fields

You can also use parameter fields to create parameters within a report. To add parameter fields:

- 1 Open the report in Crystal Reports, and then click **Insert** ▶ **Field Object**.
- 2 Right-click **Parameter Fields**, and then click **New**.
- 3 In the **Create Parameter Field** dialog box, type the name of the field.
- 4 In the **Prompting text** box, type one of the following:
  - **LEN=** This creates a text box with the specified maximum character length on the report parameters page in CIMS Server Web Reporting. For example, **LEN=6** limits the maximum characters that can be typed in the box to six.
  - **YorN** This creates a Y/N select box on the report parameters page in CIMS Server Web Reporting.
- 5 In the **Value type** box, leave the value at **String** (the default).
- 6 Click **OK** to save the parameter field.

---

**Note** • You can set options in the **Options** area of the **Create Parameter Field** dialog box. However, these options are not used by CIMS Server Web Reporting. Refer to your Crystal Reports documentation for more information about these options.

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## ■ **Administering CIMS Server Web Reporting**

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*Creating Custom Report and Transaction Parameters*

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# Using Transactions

This chapter describes how to create miscellaneous, recurring, and credit transactions.

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Editing Transactions .....	5-4
Deleting Transactions .....	5-4
Navigating Transactions .....	5-4

## Working With Transactions

The primary method for input into CIMS Server is the CIMS Server Resource File. This file provides usage data from any IT source in a common format. CIMS Server Resource Files are generated from usage metering files produced by systems in your organization, for example, IIS log files, SQL Server trace files, or disk usage output files.

In some circumstances, you might want to generate a CIMS Server Resource File for occurrences that are not contained in a usage metering file. For example, you might want to generate a CIMS Server Resource File to apply a credit for an overcharge or to charge for a one time occurrence such as the cost of providing a computer to a new employee. In these cases, you can create a transaction that contains the chargeback information that you want to include in the CIMS Server Resource File.

In summary, a transaction enables you to generate charges or credits for any item or resource that is not contained in a usage metering file.

There are three types of transactions:

- **Miscellaneous Transactions.** These are transactions that occur on a one-time basis. For example, charging for the services of a consultant who worked on a project for two days.
- **Recurring Transactions.** These are transactions that re-occur over a period of time. For example, charging for a set number of computers that are delivered to a department each quarter.
- **Credit Transactions.** These are transactions that apply a credit for resources units consumed or monetary charges.

To process transactions, you need to use the CIMS Data Collector for Transactions. For more information about this script, refer to the *CIMS Data Collectors for Microsoft Windows Installation and User Guide*.

## Adding Transactions

### To add transactions:

- 1 Click **Admin** ▶ **Transactions** ▶ **Miscellaneous/Recurring/Credit**. Note that Miscellaneous, Recurring, and Credit are separate commands.
- 2 On the transaction list page, click **Add**.
- 3 On the add transaction page, enter the following parameters for the transaction:
  - **Account Code or account code levels.** Depending on the configuration set by your CIMS Server administrator for your user group, the first setting that appears on the page will be either **Account Code**, in which you can enter an overall account code, *or* account code level boxes, in which you can enter levels of the account code. For more information about configuring this setting, refer to the *CIMS Server Administrator's Guide*.
  - **Rate Code.** The rate code for the transaction.
  - **Shift Code (optional).** The shift code for the transaction. Shift codes are set by your CIMS Server administrator. For more information, refer to the *CIMS Server Administrator's Guide*.
  - **Amount.** The amount of the transaction. Usually this figure is in resource units, for example, 500 computers, but it can also be monetary. If monetary, you can type this amount with or without the decimal point. For example, 1000 or 1000.00. Credit amounts need to be specified by a minus sign (e.g., -1).
  - **From/To Date (Miscellaneous and Credit Transactions only).** The date range that the transaction occurred.
  - **Frequency (Recurring Transactions only).** The frequency that the transaction should occur (that is, every month, every 6 months, every quarter, etc.). Frequency is based on the calendar year (January–December).
  - **Enter transaction on (Recurring Transactions only).** The period in which the transaction should be processed. The number of periods correlates to the value in the **Frequency** select box. For example, if **Every 6 months** is selected for frequency, six periods appear (Period 1 represents January and July, Period 2 represents February and August, etc.)

Note that the date parameter used by the Transactions collector determines which recurring transactions are processed. For example, if the collector is run in June with a date parameter of `Current`, and the transaction is set to **Once a year** and **Period 1** (January), the transaction will not be processed.

## ■ Using Transactions

### *Working With Transactions*

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- **Begin/End Processing on (Recurring Transactions only).** The date range in which you want recurring transactions to be processed. CIMS Server will not process recurring transactions before or after these dates. The default is the first day of the current month to December 31, 2199.
  - **Notes.** Any relevant comments.
- 4 When you are finished, click **Add** to save the transaction and return the transaction list page. If you do not want to save the transaction, click **Return**.

## Editing Transactions

### *To edit miscellaneous and credit transactions:*

- 1 On the transaction list page, click the date for the transaction(s) that you want to edit in the **Set the Date Range** or **From/To** select boxes.
- 2 Click **Refresh**. All transactions within the specified date range appear.
- 3 Click **Edit** for the transaction that you want. For a description of the settings that you can edit, see [Adding Transactions](#) on page 5-3.
- 4 When you have completed the edits, click **Update** to save the edits and return to the transaction list page. If you do not want to save the edits, click **Return**.

### *To edit recurring transactions:*

- 1 Click **Edit** for the transaction that you want. For a description of the settings that you can edit, see [Adding Transactions](#) on page 5-3.
- 2 When you have completed the edits, click **Update** to save the edits and return to the transaction list page. If you do not want to save the edits, click **Return**.

## Deleting Transactions

### *To delete transactions:*

On the transaction list page, click **Delete** for the transaction that you want to delete. You can also delete the transaction from the edit transaction page. In this case, the delete transaction page opens indicating the date and time that the transaction was deleted.

## Navigating Transactions

You can navigate to the transaction pages by:

- Clicking **Admin ▶ Transactions**.

Or

- Within an open transaction list page, clicking another transaction type in the **Select Type** select box.

# Troubleshooting

This chapter describes problems you may encounter while using CIMS Server Web Reporting and how to solve them. If you cannot find the answer to your question here, please contact CIMS Lab (see *Contacting Technical Support* on page 6-5).

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## Connection Problems

### Unable to connect to the CIMS Server Web Reporting Web site

Verify the following:

- Your Internet or network connection is working properly.
- You have appropriate network permissions and are using Internet Explorer 5.5 or later.
- You entered the correct URL.
- You have the required security permissions for the CIMS Server program folders discussed in *Assigning CIMS Server Folder Security Permissions* on page 1-7.

For assistance troubleshooting these problems, contact your system administrator.

### The CIMS Server Web Reporting Web site is not opening properly

Try the following:

- Restart IIS by clicking **Start ▶ Run**, type `iisreset /restart`, and then click **OK**.
- Check the IIS security settings (refer to the *CIMS Server Administrator's Guide* for more information)
- If you are using Crystal Reports 8, make sure that you have applied all updates
- Install the latest Service Pack for Microsoft SQL Server.

## Log On Problems

### System will not accept user ID or password

Make sure that you are typing the correct user ID and password. Note that the user password is case-sensitive.

If the password is invalid, another possible cause is that your CIMS Server administrator did not click **Change** when he added your password in the User Maintenance dialog box in CIMS Server Administrator. The administrator must click **Change** to save the password regardless of whether he is adding the password for the first time or is changing the password. For more information about setting the user ID and password, refer to the *CIMS Server Administrator's Guide*.



## Reporting Problems

### Error message appears when trying to run a spreadsheet or publish a report

If you receive the following messages when you try to run a spreadsheet or publish a report, you do not have the correct security permissions for the CIMS Server program folders discussed in [Assigning CIMS Server Folder Security Permissions](#) on page 1-7. Contact your CIMS Server administrator or system administrator.

#### Spreadsheet Message

Your Web Userid does not have sufficient access rights to create spreadsheets. Please have the CIMS Web Administrator enable write permissions for the IIS Web User to the ..\CIMSLab\Server\Web folder on the CIMS Server. Consult the CIMS Server Administrator's Guide for more information.

#### Published Report Message

Your Web Userid does not have sufficient access rights to create published reports. Please have the CIMS Web Administrator enable write permissions for the IIS Web User to the ..\CIMSLab\Server\Reports\Published folder on the CIMS Server. Consult the CIMS Server Administrator's Guide for more information.

### Reports take a long time to generate

Make sure that your Internet or network connection is working properly. It could be that excessive network usage is slowing down either the connection or the server. If you would like to stop a report that has begun loading, click the Stop Loading button (see [Stopping a Report from Loading](#) on page 3-4).

If you or other users would like to view the same report again, you can avoid waiting for the report to generate by publishing or saving the report. For more information, see [Publishing Reports](#) on page 2-13 or [Saving Reports](#) on page 3-8.

### Problems viewing reports

Change the viewer used to view reports. For more information, see [Choosing a Crystal Report Viewer](#) on page 4-6.

If you are using the Crystal Report ActiveX viewer and report headers and data do not appear in the report, you may need to use the Java or HTML viewer instead. You may not have administrative privileges to allow the ActiveX viewer to be automatically downloaded and installed on the computer on which you are trying to run the report.

### Old data appears in reports

One or more old loads have not been removed from the database. Unload the old data. For more information, refer to the *CIMS Server Administrator's Guide*.

## Cannot drill down in reports

Certain items do not have any additional information available. If you place the cursor on an item and the cursor icon becomes a magnifying glass or a hand, you can drill down. If it does not, there is no detailed information available about the item.

If you cannot drill down on items that should have drilldown capability, install the ActiveX patch from Crystal. CIMS Lab provides this patch on the CIMS Lab FTP site and the product CD (... \CIMS Server \Crystal Patches \Crystal Decisions ActiveX Viewer Patch.exe).

## Error message appears when running reports

If one of the following error messages appears when running a report:

- A time-out message that appears immediately.
- -2147192179 An error has occurred on the server in attempting to access the data source.

Click **Administration** ▶ **Database** ▶ **Database Object Manager** in CIMS Server Administrator and add any database objects that do not exist in the database (that is, **No** appears in the **Exists** column for an object or objects). If this does not solve the problem, drop all objects and then create them again. For more information about database objects, refer to the *CIMS Server Administrator's Guide*.

To view a more detail error message, run the report directly from Crystal Reports (not from the Web browser).

## Reports are missing from reports lists

If reports that you used to be able to access are missing from reports lists, your CIMS Server administrator may have removed access to those reports from your user group. Contact your CIMS Server administrator.

## General Problems

### Web reporting session is timing out before or after session timeout value

If you change the **Session Timeout Minutes** value, the change will not take effect until you restart IIS. For instructions on how to restart IIS, see [page 6-2](#).

### Computer locks up or runs slowly

The computer might not have enough memory to process. Try running the application on a PC with more memory (preferably 256 MB or more).

## Contacting Technical Support

The CIMS Lab Technical Support department is here to answer your questions on any aspect of CIMS Lab products.

CIMS Lab technical support can be reached in the following ways:

- **Telephone:** (800) 283-4267 in USA and Canada; 916-783-8525 International
- **E-mail:** support@cimslab.com
- **Fax request:** (916) 783-2090

International customers may contact one of our authorized international partners. Contact CIMS Lab for more information.

In addition, customers may visit the Customer Area on our Web site for product downloads, updates, technical documentation, and password information. We are on the Web at <http://www.cimslab.com>.





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# Standard Reports

This appendix describes the standard reports provided with CIMS Server.

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## About CIMS Server Reports

CIMS Server produces chargeback and resource accounting reports based on IT usage data from your organization. To help you to easily create reports that display the information that you need, CIMS Server includes a variety of standard reports that you can use as templates. (If CIMS Server is installed in the default path, these reports are in C:\Program Files\CIMSLab\Server\Reports\Standard.) This appendix provides a description of each standard report.

## Report Naming Conventions

The following is the file naming convention for the CIMS Server standard reports:

Character 1	The type of report: (G)raph, (I)Drilldown, (R)eport, (S)preadsheet, (X)Crosstab
Character 2,3,4	Description of report (if template, TMP)
Character 5	Function of report: (R)esource, (C)ost, (B)oth, (U)ser, (X)Other
Character 6,7,8	Numbering sequence for reports of the same type (for example, invoice, budget, trend)

For example, the file name RBGTC001.rpt represents the following:

R	=	Report
BGT	=	Budget
C	=	Cost
001	=	Report number

## Conventions Used in This Appendix

The reports listed in this appendix are grouped by type (graphs, drilldown reports, reports, spreadsheets, crosstab reports, and templates) and are presented in alphabetical order by file name.

Each report includes a description with the following information:

**File name.** The name of the report file.

**Stored Procedure.** The stored procedure used for the report (if applicable). A stored procedure is a set of SQL statements that can perform both queries and actions that allow the system to generate reports.

**Drilldown.** The drilldown features for the report (if applicable).

**Parameters.** The parameters for the report such as starting and ending account codes, invoice level, and from and to dates. For a description of these parameters, see [Using Report Parameters](#) on page 2-4.



## Reports by File Name

For easy reference, the following lists each standard report by file name and provides the page number where you can find the report description. Reports that begin with RTMP or STMP are report templates, which are in the ...Standard/Templates folder.

GTRDC001.rpt	page A-7	RINVC001.rpt	page A-34
GTRDC002.rpt	page A-8	RINVC002.rpt	page A-34
GTRDR001.rpt	page A-9	RINVC003.rpt	page A-36
IINXC001.rpt	page A-10	RINVC004.rpt	page A-37
IINXC002.rpt	page A-12	RINVC006.rpt	page A-39
IINXC004.rpt	page A-13	RINVC007.rpt	page A-41
IINXC005.rpt	page A-15	RINVC009.rpt	page A-43
IINXC006.rpt	page A-16	RIVTC001.rpt	page A-45
RACLX001.rpt	page A-18	RIVTC002.rpt	page A-46
RARTX001.rpt	page A-20	RIVTC003.rpt	page A-47
RATRX001.rpt	page A-22	RIVTC004.rpt	page A-48
RBATR001.rpt	page A-23	RIVZC001.rpt	page A-49
RBGTC001.rpt	page A-24	RIVZC002.rpt	page A-51
RBGTC002.rpt	page A-25	RPERX001.rpt	page A-52
RCFGX001.rpt	page A-26	RRATX001.rpt	page A-53
RCICR001.rpt	page A-27	RTMPB001.rpt	page A-96
RCLTX001.rpt	page A-28	RTMPC001.rpt	page A-98
RDAYC001.rpt	page A-29	RTMPR001.rpt	page A-99
RDAYC002.rpt	page A-30	RTOPC001.rpt	page A-54
RDB2R001.rpt	page A-31	RTOPC002.rpt	page A-56
RDETR001.rpt	page A-32	RTOPC003.rpt	page A-58
RDETR002.rpt	page A-33	RTOPC004.rpt	page A-60

RTRDC001.rpt	<a href="#">page A-61</a>	XDAYC001.rpt	<a href="#">page A-84</a>
RTRDC002.rpt	<a href="#">page A-62</a>	XDAYR001.rpt	<a href="#">page A-85</a>
RTRDR001.rpt	<a href="#">page A-63</a>	XDETR001.rpt	<a href="#">page A-86</a>
RTRNX001.rpt	<a href="#">page A-64</a>	XDETR002.rpt	<a href="#">page A-87</a>
RVARC001.rpt	<a href="#">page A-65</a>	XMONC001.rpt	<a href="#">page A-88</a>
RVARC002.rpt	<a href="#">page A-66</a>	XMONR001.rpt	<a href="#">page A-89</a>
RVARR001.rpt	<a href="#">page A-67</a>	XSUMC001.rpt	<a href="#">page A-90</a>
RWEKC001.rpt	<a href="#">page A-68</a>	XSUMC002.rpt	<a href="#">page A-91</a>
RWEKC002.rpt	<a href="#">page A-69</a>	XSUMR001.rpt	<a href="#">page A-92</a>
RYTDC001.rpt	<a href="#">page A-70</a>	XSUMR002.rpt	<a href="#">page A-93</a>
RYTDC002.rpt	<a href="#">page A-71</a>	XWEKC001.rpt	<a href="#">page A-94</a>
SINVC001.rpt	<a href="#">page A-72</a>	XWEKR001.rpt	<a href="#">page A-95</a>
SINVC002.rpt	<a href="#">page A-73</a>		
SINVC003.rpt	<a href="#">page A-74</a>		
SINVC004.rpt	<a href="#">page A-75</a>		
SPERX001.rpt	<a href="#">page A-76</a>		
SPERX002.rpt	<a href="#">page A-77</a>		
SPERX003.rpt	<a href="#">page A-78</a>		
STMPB001.rpt	<a href="#">page A-99</a>		
STMPC001.rpt	<a href="#">page A-101</a>		
STMPR001.rpt	<a href="#">page A-102</a>		
STOPC004.rpt	<a href="#">page A-79</a>		
SWEKC001.rpt	<a href="#">page A-80</a>		
SYTDC001.rpt	<a href="#">page A-81</a>		
SYTDC002.rpt	<a href="#">page A-82</a>		
SYTDC003.rpt	<a href="#">page A-83</a>		

# Graphs

## Cost Trend–Accounts Graph

**File name:** GTRDC001.rpt

**Stored Procedure:** CIMSSP\_Summary\_Month

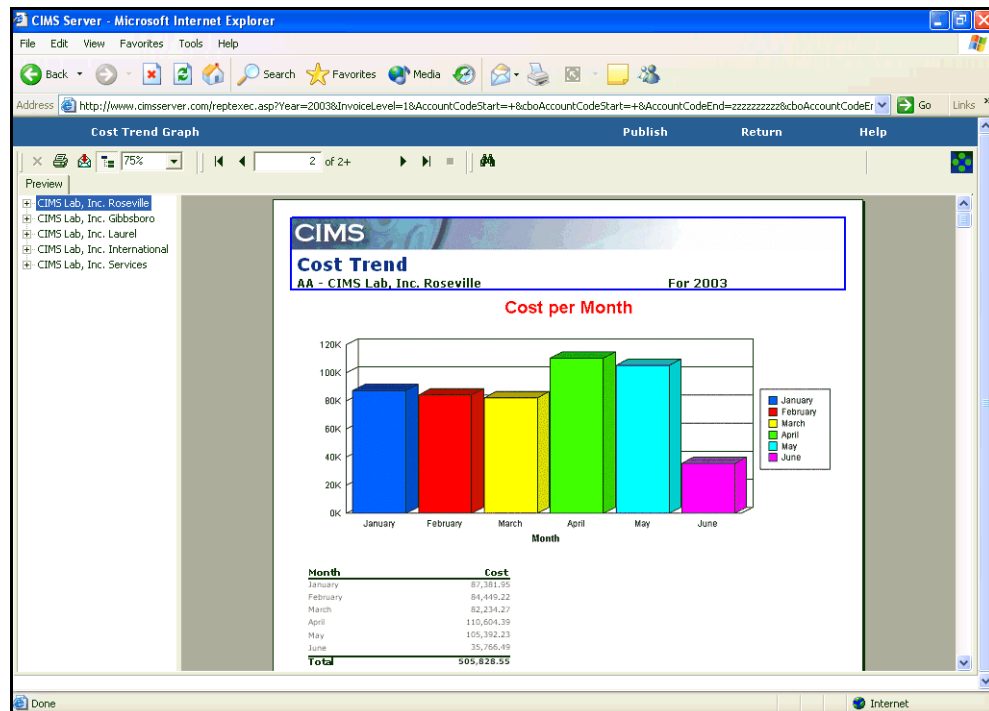
This graph report provides the total charges for all account codes for each month for the parameters selected followed by charges for individual account codes for each month.

**Drilldown:** None

**Parameters:**

- Report Year
- Invoice Level
- Starting and Ending Account Code

**Report Example**



**Figure A-1 • Cost Trend–Accounts Graph Example**

## Cost Trend–Rates Graph

**File name:** GTRDC002.rpt

**Stored Procedure:** CIMSSP\_Summary\_Month

This graph report provides the total charges for all rate codes for each month for the parameters selected followed by charges for individual rate codes for each month.

**Drilldown:** None

**Parameters:**

- Report Year
- Starting and Ending Account Code

### Report Example

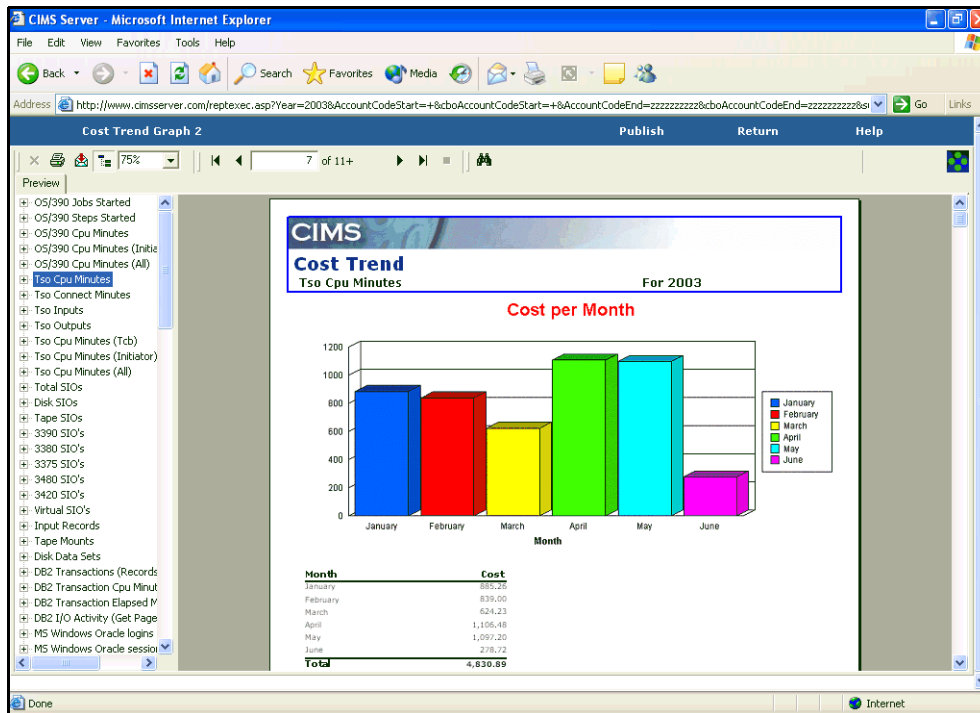


Figure A-2 • Cost Trend–Rates Graph Example

## Resource Trend Graph

**File name:** GTRDR001.rpt

**Stored Procedure:** CIMSSP\_Summary\_Month

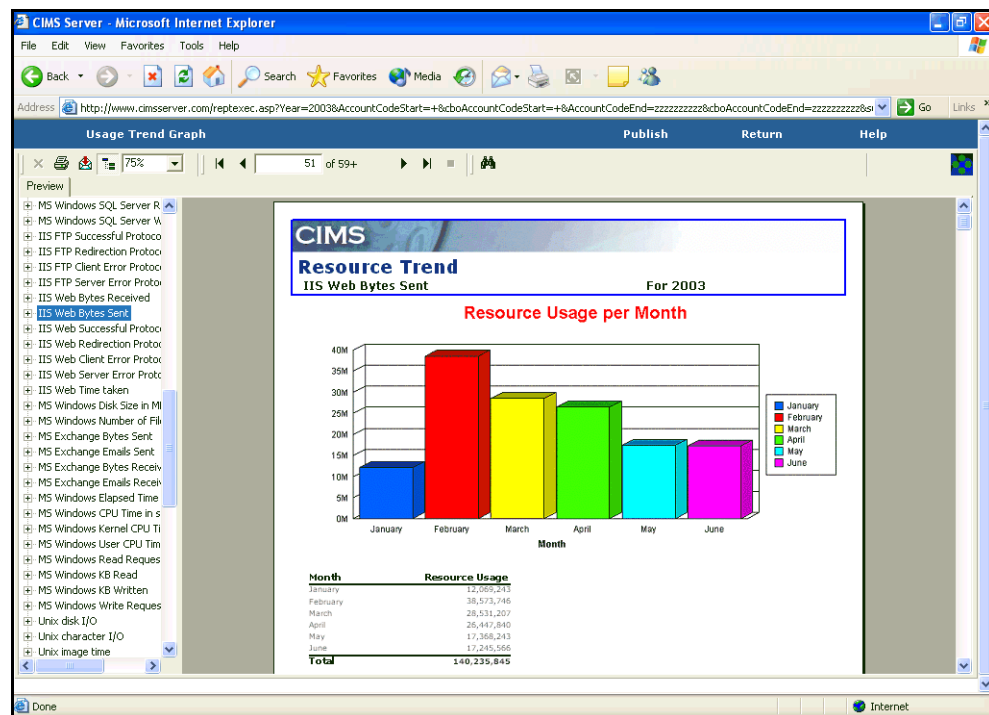
This graph report provides the total resource usage for all rate codes for each month for the parameters selected followed by resource usage for individual rate codes for each month.

**Drilldown:** None

**Parameters:**

- Report Year
- Starting and Ending Account Code

**Report Example**



**Figure A-3 • Resource Trend Graph Example**

## Drilldown Reports

Drilldown reports enable you to view a breakdown of an item in a report, for example resource units or charges, by an identifier or identifiers. Drilldown reports are invoked from other reports and cannot be run independently.

### Invoice Drilldown for Rate Group Report

**File name:** IINXC001.rpt

**Stored Procedure:** CIMSSP\_Drilldown\_by\_RateGroup

This report enables drilldown of the charges for a rate group by identifier name. For example, the report in [Figure A-4](#) on page A-11 provides a drilldown of a rate group for charges associated with the identifier name `JOBNAME`. Charges for each rate code within the rate group are broken down by the identifier values for `JOBNAME`.

This report invokes from the following reports.

- Invoice with Budgets (see [page A-37](#))
- Invoice (see [page A-39](#))
- Invoice by Account Level or Invoice by Account Level V2 (see [page A-41](#))
- Invoice with Shifts (see [page A-43](#))
- Zero Cost Center Invoice (see [page A-49](#))

**Drilldown:** None

**Parameters:**

- Identifier name
- All other parameters are supplied by the invoice report

## Report Example

Invoice by Account Level

OS/390 Tso for AA-CIMS Lab, Inc. Roseville by Jobname  
From 6/1/2003 to 6/30/2003

Jobname	13-Tso Cpu Minutes	15-Tso Connect Minutes	16-Tso Inputs	18-Tso Outputs
AMER09	0.02	32.13	13	15
AMER13	0.03	40.60	65	70
DSI1	0.17	121.27	563	636
DSI2	0.53	963.46	1,669	1,908
DTI01	0.02	9.59	39	40
DTI03	0.04	4.43	33	39
DTI05	0.02	73.61	59	63
JRCDWW	0.08	21.99	68	72
MC00014	0.35	1,970.27	182	195
OCH	0.19	139.14	488	579
OPH	0.30	2,610.91	723	752
ORD	0.17	45.42	10	12
OSD	0.21	2,939.72	168	187
OSK	0.03	2,726.62	24	28
PHH	5.51	2,754.56	16,154	16,829
<b>Total</b>	<b>7.68</b>	<b>14,453.71</b>	<b>20,258</b>	<b>21,425</b>

Figure A-4 • Invoice Drilldown for Rate Group Report Example

## Invoice Drilldown for Rate Group by Date Report

**File name:** IINXC002.rpt

**Stored Procedure:** CIMSSP\_Drilldown\_by\_RateGroup\_Date

This report is similar to the Invoice Drilldown for Rate Group report (see [page A-10](#)). However, it also provides a breakdown of the data by date.

**Drilldown:** None

**Parameters:**

- Identifier name
- All other parameters are supplied by the invoice report

**Report Example**

Jobname	Date	13-Tso Cpu Minutes	15-Tso Connect Minutes	16-Tso Inputs	18-Tso Outputs
AMER09	6/10/2003	0.02	32.13		13
	Total	0.02	32.13		13
AMER13	6/3/2003	0.03	40.60		65
	Total	0.03	40.60		65
DS11	6/2/2003	0.03	18.14		63
	6/5/2003	0.14	103.12		500
	Total	0.17	121.27		563
DS12	6/2/2003	0.13	271.46		352
	6/3/2003	0.22	333.39		888
	6/6/2003	0.08	158.46		230
	6/9/2003	0.04	87.01		115
	6/10/2003	0.06	113.14		84
	Total	0.53	963.46		1,669
DTI01	6/3/2003	0.02	9.59		39
Total	0.02	9.59		39	
DTI03	6/2/2003	0.02	1.61		21
	6/3/2003	0.02	2.82		12
Total	0.04	4.43		33	
DTI05	6/3/2003	0.02	73.61		59
	Total	0.02	73.61		59

Figure A-5 • Invoice Drilldown for Rate Group by Date Report Example



## Invoice Drilldown for Units Report

**File name:** IINXC004.rpt

**Stored Procedure:** CIMSSP\_Drilldown\_by\_Rate

This report enables drilldown of resource units by identifier name. For example, the report in [Figure A-6](#) provides a drilldown of resource units for the units associated with the identifier name `JOBNAME`. Units are broken down by the identifier values for `JOBNAME`.

This report invokes from the following reports.

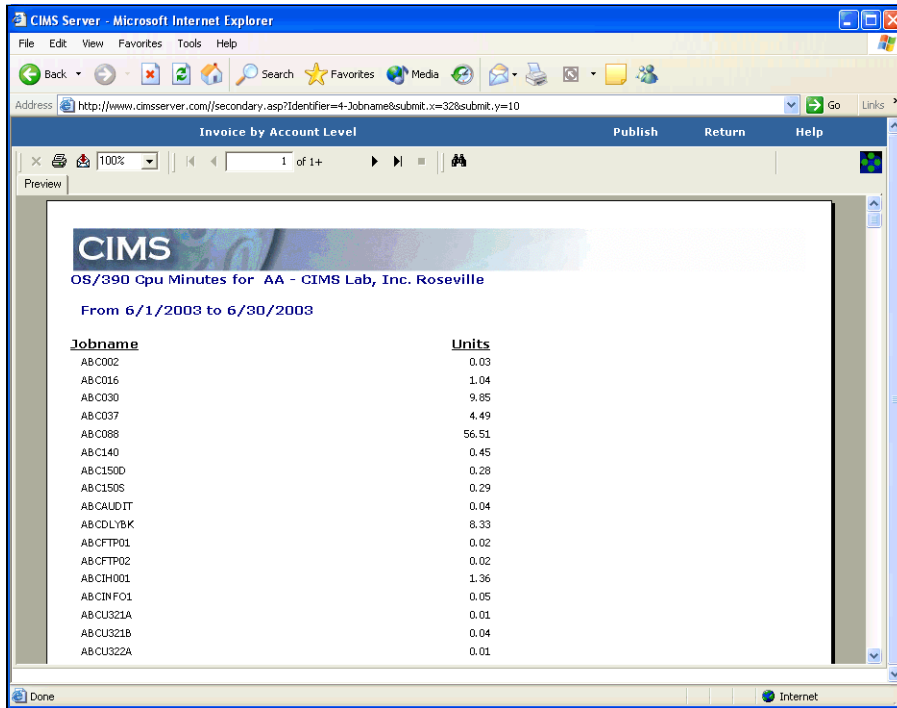
- [Alternate Invoice](#) (see [page A-34](#))
- [Invoice with Budgets](#) (see [page A-37](#))
- [Invoice](#) (see [page A-39](#))
- [Invoice by Account Level or Invoice by Account Level V2](#) (see [page A-41](#))
- [Invoice with Shifts](#) (see [page A-43](#))
- [Run Total Invoice 2](#) (see [page A-48](#))
- [Zero Cost Center Invoice](#) (see [page A-49](#))

**Drilldown:** None

**Parameters:**

- Identifier name
- All other parameters are supplied by the invoice report

## Report Example



The screenshot shows a Microsoft Internet Explorer browser window displaying a report from the CIMS Server. The report title is "OS/390 Cpu Minutes for AA - CIMS Lab, Inc. Roseville" and it covers the period "From 6/1/2003 to 6/30/2003". The report is presented as a table with two columns: "Jobname" and "Units".

<u>Jobname</u>	<u>Units</u>
ABC002	0.03
ABC016	1.04
ABC030	9.85
ABC037	4.49
ABC088	56.51
ABC140	0.45
ABC150D	0.28
ABC150S	0.29
ABCAUDIT	0.04
ABCDLYBK	8.33
ABCFTP01	0.02
ABCFTP02	0.02
ABCIH001	1.36
ABCINF01	0.05
ABCUS21A	0.01
ABCUS21B	0.04
ABCUS22A	0.01

Figure A-6 • Invoice Drilldown for Units Report Example

## Invoice Drilldown for Units by Date Report

**File name:** IINXC005.rpt

**Stored Procedure:** CIMSSP\_Drilldown\_by\_Rate\_Date

This report is similar to the Invoice Drilldown for Units report (see [page A-13](#)). However, it also provides a breakdown of the data by date.

**Drilldown:** None

**Parameters:**

- Identifier name
- All other parameters are supplied by the invoice report

**Report Example**

Jobname	DATE	Units
<b>ABC002</b>		
	6/2/2003	0.03
Total for: ABC002		0.03
<b>ABC016</b>		
	5/30/2003	0.20
	6/2/2003	0.21
	6/3/2003	0.21
	6/5/2003	0.21
	6/6/2003	0.21
Total for: ABC016		1.04
<b>ABC030</b>		
	5/30/2003	0.40
	6/2/2003	2.20
	6/3/2003	2.67
	6/4/2003	0.60

**Figure A-7 • Invoice Drilldown for Units by Date Report Example**

## Multilevel Drilldown for Units Report

**File name:** IINXC006.rpt

**Stored Procedure:** CIMSSP\_Drilldown\_3D

This report enables drilldown of resource units by up to five identifier names. For example, the report in [Figure A-8](#) on page A-17 provides a drilldown of resource units by the identifier values associated with the identifier names SYSTEM\_ID, APPLICATION ID, and TERMINAL\_ID.

To enable this report, the report file name IINXC006 must be entered in the Configuration dialog box in CIMS Server Administrator (refer to the *CIMS Server Administrator's Guide*). If this option is not set, the Invoice Drilldown for Rate or Invoice Drilldown for Rate by Date report is invoked.

This report invokes from the following reports.

- Alternate Invoice (see [page A-34](#))
- Invoice with Budgets (see [page A-37](#))
- Invoice (see [page A-39](#))
- Invoice by Account Level or Invoice by Account Level V2 (see [page A-41](#)).
- Invoice with Shifts (see [page A-43](#))
- Zero Cost Center Invoice (see [page A-49](#)).

**Drilldown:** None

**Parameters:**

- Identifier name 1
- Identifier name 2
- Identifier name 3
- All other parameters are supplied by the invoice report

## Report Example

**CIMS**  
**CIMS Transaction Minutes for AA - CIMS Lab, Inc. Roseville**  
**From 5/1/2003 to 5/31/2003**

SYSTEM_ID	APPLICATION_ID	TERMINAL_ID	
<b>SYSG</b>			
TDOCS01			1.04
3191			0.03
3C02			0.15
8A33			0.54
A106			0.07
CNSL			0.03
M026			0.08
M059			0.00
SEQ1			0.00
TDOCS01			1.93
TDOCS58			
CNSL			1.33
M043			0.13
TDOCS58			1.46
<b>SYSG</b>			<b>3.39</b>

Figure A-8 • Multilevel Drilldown for Units Report Example

# Reports

## Client Audit Report

**File name:** RACLX001.rpt

**Stored Procedure:** CIMSSP\_AuditClient

This report tracks changes to the CIMS Client table and contains the following:

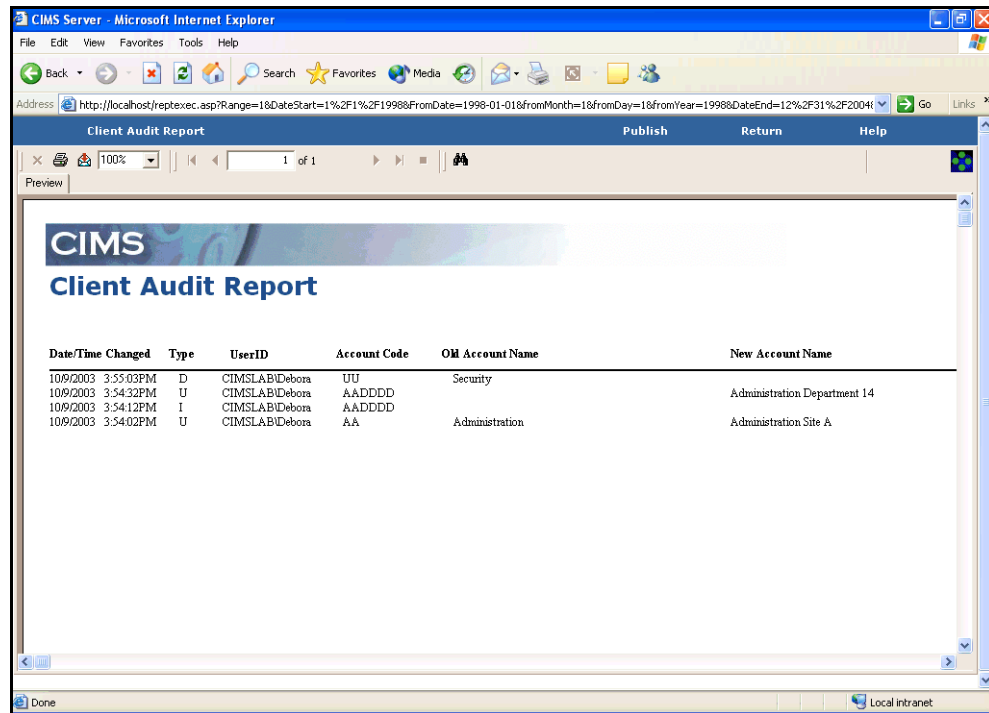
- Date and time the change was made
- The type of change that was made:
  - U = update to existing data
  - I = addition of new data
  - D = deletion of data
- Windows user ID
- Client account code
- Old account name (if applicable)
- New account name (if applicable)

**Drilldown:** None

**Parameters:**

- From and To Date
- Audit Type

## Report Example



The screenshot shows a web browser window titled "CIMS Server - Microsoft Internet Explorer". The address bar contains a URL: `http://localhost/reptexec.asp?Range=1&DateStart=1%2F1%2F1998&FromDate=1998-01-01&fromMonth=1&fromDay=1&fromYear=1998&DateEnd=12%2F31%2F2004`. The page title is "Client Audit Report". The report content includes a header with the "CIMS" logo and the title "Client Audit Report". Below the header is a table with the following data:

Date/Time Changed	Type	UserID	Account Code	Old Account Name	New Account Name
10/9/2003 3:55:03PM	D	CIMSLAB\Deborah	UU	Security	
10/9/2003 3:54:32PM	U	CIMSLAB\Deborah	AADDDD		Administration Department 14
10/9/2003 3:54:12PM	I	CIMSLAB\Deborah	AADDDD		
10/9/2003 3:54:02PM	U	CIMSLAB\Deborah	AA	Administration	Administration Site A

Figure A-9 • Client Audit Report Example

## **Rate Audit Report**

**File name:** RARTX001.rpt

**Stored Procedure:** CIMSSP\_AuditRate

This report tracks changes to the CIMS Rate table and contains the following:

- Date and time the change was made
- The type of change that was made:
  - U = update to existing data
  - I = addition of new data
  - D = deletion of data
- Windows user ID
- Rate code
- Old and new rate value
- Old and new rate per resource unit or per thousand unit indicator:
  - M (Per thousand units)
  - Blank (Per unit)
- Old and new resource conversion factor:
  - 1 (Divide total resource value by 60)
  - 2 (Divide total resource value by 3600)
  - 3 (Divide total resource value by 1000)
  - 4 (Multiply total resource value by 60)
  - 5 (Divide total resource value by 60000)
  - # (Multiple total resource value by user-defined number)
  - Blank (No conversion factor)
- Old and new zero cost indicator:
  - N (The rate will not be included in zero cost calculations)
  - Blank (The rate will be included in zero cost calculations)

**Drilldown:** None



**Parameters:**

- From and To Date
- Rate Code
- Audit Type

**Report Example**

The screenshot shows a web browser window titled 'CIMS Server - Microsoft Internet Explorer'. The address bar contains a URL with parameters for Range, DateStart, FromDate, fromMonth, fromDay, fromYear, DateEnd, and F31. The page title is 'Rate Audit Report'. The report content includes a header 'CIMS Rate Audit Report' and a table with the following data:

Date/Time Changed	Type	UserID	Rate Code	Rate Value		Per Thou		Res Conv		Zero Cost	
				Old	New	Old	New	Old	New	Old	New
10/9/2003 4:26:36PM	U	CIMSLAB\Deborah	-TECH		30.00						
10/9/2003 4:26:16PM	I	CIMSLAB\Deborah	-TECH								
10/9/2003 4:25:08PM	D	CIMSLAB\Deborah	LLY208		0.00						
10/9/2003 4:24:44PM	U	CIMSLAB\Deborah	Z001		2.50		3.50				

**Figure A-10 • Rate Audit Report Example**

## Transaction Audit Report

**File name:** RATRX001.rpt

**Stored Procedure:** CIMSSP\_AuditTransaction

This report tracks changes to the CIMS Transaction table and contains the following:

- Date and time the change was made
- The type of change that was made:
  - U = update to existing data or transaction marked as deleted
  - I = addition of new data
- User ID (usually the Windows user ID or SQL Server user ID)
- Account code
- Old and new rate code
- Old and new amount

**Drilldown:** None

**Parameters:**

- From and To Date
- Audit Type

**Report Example**

Date/Time Changed	Type	UserID	Account Code	OM Rate Code	New Rate Code	OM Amount	New Amount
10/10/2003 12:07:23PM	I	sa	AA		ZMONEY		5000.00
10/10/2003 12:01:02PM	U	sa	DDWWWWGA	Z016	Z016	50.00	60.00

Figure A-11 • Transaction Audit Report Example

## Batch Report

**File name:** RBATR001.rpt

**Stored Procedure:** CIMSSP\_Batch

This report provides OS/390 batch job data for the parameters selected. This data is taken from the CIMS Detail table.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

### Report Example

**CIMS**  
**Resource Report in Job Name Sequence**  
 Account Range: All  
 Date Range: 6/1/2003 to 6/30/2003

JOB NAME	SUB-ID	ACCOUNT	JOBS	STEPS	CPU \$\$\$\$.ss	CPU (INIT) \$\$\$\$.ss	CPU (ALL) \$\$\$\$.ss	DISK SID
ABC002	JES2	AA	1	2	1.84	0.04	2.09	9,7
ABC016	JES2	AA	4	192	50.28	6.57	58.20	45,8
ABC030	JES2	AA	2	261	567.06	7.55	664.73	3,417,6
ABC037	JES2	AA	4	82	226.25	2.73	245.68	475,3
ABC088	JES2	AA	5	185	2,828.85	4.26	2,934.50	4,203,6
ABC140	JES2	AA	1	21	26.94	0.76	30.05	13,0
ABC150D	JES2	AA	1	58	16.74	1.59	20.77	109,0
ABC150S	JES2	AA	1	61	17.43	1.73	21.67	109,0
ABCAUDIT	JES2	AA	4	32	1.79	1.02	3.00	2
ABCDLYBK	JES2	AA	11	11	423.28	0.80	461.10	70,2
ABCFTP01	JES2	AA	5	5	0.79	0.19	1.04	5
ABCFTP02	JES2	AA	5	5	0.83	0.16	1.04	5
ABCIH001	JES2	AA	5	5	68.12	0.58	69.12	1,5
ABCIH001	JES2	AA	6	54	2.86	2.52	5.48	3
ABCU321A	JES2	AA	1	7	0.34	0.20	0.55	2
ABCU321B	JES2	AA	1	44	2.25	1.39	3.71	4,2

Figure A-12 • Batch Report Example

## Account Budget for Period and YTD Report

**File name:** RBGTC001.rpt

**Stored Procedure:** None

This report provides actual, budget, and difference charges by account code for the parameters selected. This report includes totals for the calendar period selected and year to date (YTD).

This report reflects the amount for the Overall Account Budget for the account code as set in the CIMS Client Budget table. For more information about setting budgets, refer to the *CIMS Server Administrator's Guide*.

**Drilldown:** None

**Parameters:**

- Starting and Ending Account Code
- Invoice Level
- Calendar Period

### Report Example

AccountCode	From: 06/01/2003 to 06/30/2003			YTD		
	Actual	Budget	Difference	Actual	Budget	Difference
AA-CIMS Lab, Inc. Roseville	51,003.59	50,333.33	7,329.74	521,065.65	350,000.00	-171,065.65
BB-CIMS Lab, Inc. Gibbstown	26,168.74	25,000.00	-1,168.74	239,437.03	150,000.00	-89,437.03
CC-CIMS Lab, Inc. Laurel	56,194.66	50,000.00	-6,194.66	309,083.04	300,000.00	-89,083.04
DD-CIMS Lab, Inc. International	10,633.70	10,000.00	-633.70	55,872.10	60,000.00	4,127.82
EE-CIMS Lab, Inc. Services	11,169.30	16,666.67	5,497.37	52,351.60	100,000.00	47,648.32
<b>Grand Total</b>	<b>155,170.07</b>	<b>160,000.00</b>	<b>4,829.93</b>	<b>1,257,811.18</b>	<b>960,000.00</b>	<b>-297,811.18</b>

Figure A-13 • Account Budget for Period and YTD Report Example

## Line Item Budget for Period and YTD Report

**File name:** RBGTC002.rpt

**Stored Procedure:** CIMSSP\_LineItem\_Budget

This report provides actual, budget, and difference charges by account code, rate group and rate code description for the parameters selected. This report includes totals for the calendar period selected and YTD.

This report reflects the amount for the individual resource budgets for the account code as set in the CIMS Client Budget table. For more information about setting budgets, refer to the *CIMS Server Administrator's Guide*.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Calendar Period
- Starting and Ending Account Code

**Report Example**

Account	From: 06/01/2003 to 06/30/2003			YTD		
	Actual	Budget	Difference	Actual	Budget	Difference
<b>AA-CIMS Lab, Inc. Roseville</b>						
DB2 Transactions (Records)	0.26	1.25	0.99	2.86	7.50	
DB2 Transaction Elapsed Minutes	0.04	0.83	0.79	0.57	5.00	
<b>05/390 DB2</b>	<b>0.30</b>	<b>2.08</b>	<b>1.78</b>	<b>3.43</b>	<b>12.50</b>	
Unix disk I/O	4.51	2.08	-2.43	432.44	12.50	
Unix character I/O	0.03	1.67	1.64	2.78	10.00	
Unix image time	167.05	208.33	41.28	250.49	1,250.00	
Unix connect time	35.19	25.00	-10.19	157.20	150.00	
Unix user CPU	0.18	1.67	1.49	8.90	10.00	

**Figure A-14 • Line Item Budget for Period and YTD Report Example**

## Configuration Report

**File name:** RCFGX001.rpt

**Stored procedure:** None

This report provides information contained in the CIMS Configuration table.

**Drilldown:** None

**Parameters:** None

**Report Example**

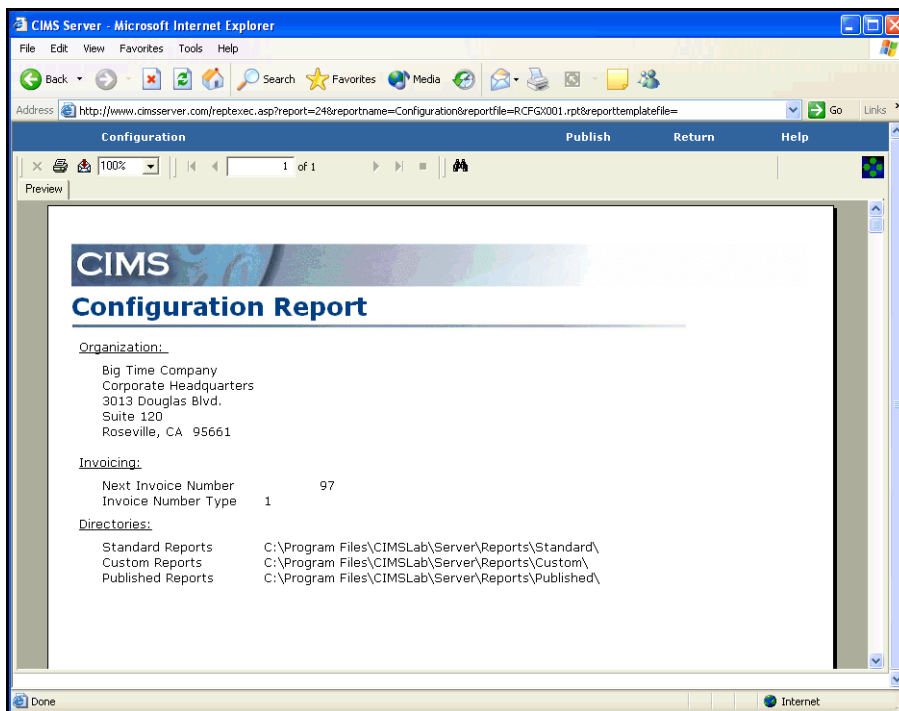


Figure A-15 • Configuration Report Example

## CICS Transaction Report

**File name:** RCICR001.rpt

**Stored Procedure:** CIMSSP\_CICS

This report provides data for CICS transactions by transaction ID for the parameters selected. This data is taken from the CIMS Detail table.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Trans ID Start
- Trans ID End

**Report Example**

The screenshot shows a web browser window titled "CIMS Server - Microsoft Internet Explorer" displaying a report titled "CICS Transaction ID Summary". The report includes the following data:

TRAN ID	Account Code	DATE	COUNT	TRANS TIME \$SSSS.SSSSS	CPU TIME \$SSSS.SSSSS	TERMINAL INPUTS	TERMI OUTP
CESF	AA	7/31/2003	6	0.03299	0.02636	6	
CESF	BB	7/31/2003	2	0.00953	0.00842	2	
CESF	CC	7/31/2003	6	0.09227	0.03011	6	
CESF		7/31/2003	14	0.13479	0.06489	14	
<b>CESF</b>			<b>14</b>	<b>0.13479</b>	<b>0.06489</b>	<b>14</b>	
CESN	AA	7/31/2003	50	3.11549	0.58109	50	
CESN		7/31/2003	50	3.11549	0.58109	50	
<b>CESN</b>			<b>50</b>	<b>3.11549</b>	<b>0.58109</b>	<b>50</b>	
CES	CC	7/31/2003	1	0.00397	0.00294	1	
CES		7/31/2003	1	0.00397	0.00294	1	
<b>CES</b>			<b>1</b>	<b>0.00397</b>	<b>0.00294</b>	<b>1</b>	

**Figure A-16 • CICS Transaction Report Example**

## Client Report

**File name:** RCLTX001.rpt

**Stored procedure:** None

This report provides the information contained in the CIMS Client table for the parameters selected.

**Drilldown:** None

**Parameters:**

- Starting and Ending Account Code

### Report Example

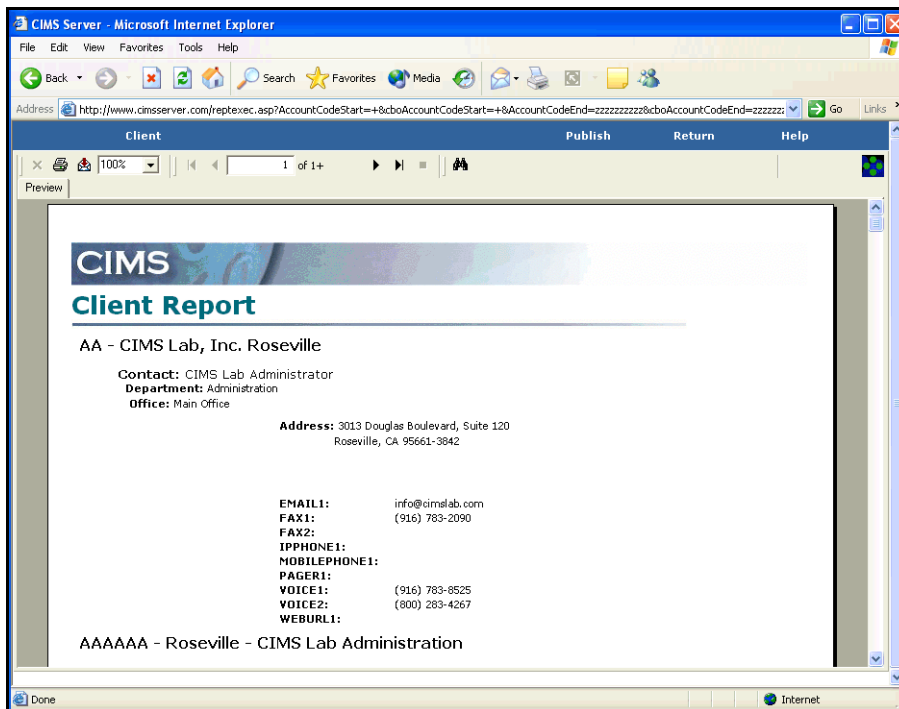


Figure A-17 • Client Report Example



## Account Summary Daily Report

**File name:** RDAYC001.rpt

**Stored Procedure:** CIMSSP\_Summary\_Day

This report provides total daily and monthly charges by account code and rate code description for the parameters selected.

### Drilldown:

- Double-click a day or the charge for a day and a breakdown of charges by rate code description for the day appears.

### Parameters:

- Invoice Level
- Starting and Ending Account Code
- From and To Date

### Report Example

The screenshot shows a Microsoft Internet Explorer window displaying the 'Account Summary Daily' report. The browser address bar shows the URL: <http://www.cimserver.com/reptexec.asp?InvoiceLevel=1&AccountCodeStart=+&cboAccountCodeStart=+&AccountCodeEnd=zzzzzzzz&cboAccountCodeEnd=zzzzzzzz>. The report title is 'Account Summary Daily' and it includes 'Publish', 'Return', and 'Help' buttons. A navigation bar shows '2 of 5+' pages. The report content is as follows:

Account	Charge
<b>BB - CIMS Lab, Inc. Gibbsboro</b>	
<b>June 2003</b>	
6/1/2003	281.89
6/2/2003	505.73
6/3/2003	4,490.40
6/4/2003	450.32
6/5/2003	723.18
6/6/2003	217.36
6/7/2003	595.94
6/8/2003	676.89
6/9/2003	4,303.24
6/10/2003	2,432.10
6/11/2003	1,420.14
<b>Total for June 2003</b>	<b>16,097.19</b>
<b>Total for BB - CIMS Lab, Inc. Gibbsboro</b>	<b>16,097.19</b>

Figure A-18 • Account Summary Daily Report Example

## Account Summary Daily 2 Report

**File name:** RDAYC002.rpt

**Stored Procedure:** CIMSSP\_Summary\_Day

This report is similar to the Account Summary Daily report (see page A-29). However, the month (rather than the account code) appears as the top level of the report.

### Drilldown:

- Double-click a day or the charge for a day and a breakdown of charges for the day by account code appears. Double-click an account code and a breakdown of charges for the day by rate code description appears.

### Parameters:

- Invoice Level
- Starting and Ending Account Code
- From and To Date

### Report Example

CIMS		Account Summary By Day		From: 6/1/2003 To: 6/30/2003	
Month	Day			Charge	
<b>June 2003</b>					
	6/1/2003				5,571.68
	6/2/2003				7,255.24
	6/3/2003				10,586.16
	6/4/2003				8,502.74
	6/5/2003				9,898.69
	6/6/2003				4,763.24
	6/7/2003				8,661.15
	6/8/2003				7,981.29
	6/9/2003				11,785.33
	6/10/2003				14,194.24
	6/11/2003				11,567.44
Total for June 2003					100,767.20
Report Total					100,767.20

Figure A-19 • Account Summary Daily 2 Report Example

## DB2 Summary Report

**File name:** RDB2R001.rpt

**Stored Procedure:** CIMSSP\_DB2

This report provides DB2 data for the parameters selected. This data is taken from the CIMS Detail table.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

The screenshot shows a web browser window titled "CIMS Server - Microsoft Internet Explorer" displaying a "DB2 Summary" report. The report is titled "CIMS DB2 Summary" and includes the following information:

Account Range: All  
Date Range: 6/1/2003 to 6/30/2003

SYS ID	AUTH ID	PLAN NAME	ACCOUNT CODE	NUM OF DB2 TRANS	TRANS CPU TIME	ACCUM CPU TIME	TRANS ELAPSED TIME	AC EL/ T
PT11	ZEKEMTP	DSNBIND	DD	13,604	2,951.68	1,176.39	7,326.68	
PT11	ZEKEMTP	DSNBIND		13,604	2,951.68	1,176.39	7,326.68	
<b>PT11</b>	<b>ZEKEMTP</b>			<b>13,604</b>	<b>2,551.68</b>	<b>1,176.39</b>	<b>7,326.68</b>	
<b>PT11</b>				<b>24,261</b>	<b>3,820.32</b>	<b>1,428.10</b>	<b>66,709.14</b>	
PT22	DCBATCH	DSNUTIL	AA	72	50.92	0.00	280.08	
PT22	DCBATCH	DSNUTIL		72	50.92	0.00	280.08	
PT22	DCBATCH	PLCAPLAN	AA	8	12.11	0.00	46.76	
PT22	DCBATCH	PLCAPLAN		8	12.11	0.00	46.76	
<b>PT22</b>	<b>DCBATCH</b>			<b>80</b>	<b>63.03</b>	<b>0.00</b>	<b>326.84</b>	
PT22	DCC3ADM	DISTSERV	BB	4,521	354.38	0.00	2,527.93	

Figure A-20 • DB2 Summary Report Example

## Detail by Rate Group Report

**File name:** RDETR001.rpt

**Stored Procedure:** CIMSSP\_Drilldown\_by\_RateGroup

This report provides total resource units used for the first eight rate code descriptions in a rate group for the parameters selected. If applicable, a total for the next highest level of the account code appears. For example, in [Figure A-21](#), total units appear for account codes AAAAAA, AADDDD, AAFFFF, and AAMMMM. The sum of these totals appears for account code AA (the next highest level).

**Drilldown:** None

**Parameters:**

- Rate Group
- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

Account Code	Description	OS/390 Jobs Started	OS/390 Steps Started	OS/390 Cpu Minutes	OS/390 Cpu Minutes (Initiators)	OS/390 Cpu Minutes (All)	Batch Cred
AAAAAA	Roseville - CIMS Lab Administration	772	4,523	5,212.80	125.17	5,656.11	
AADDDD	Roseville - CIMS Lab Development	124	248	233.85	9.04	267.02	
AAFFFF	Roseville - CIMS Lab Finance	105	231	593.33	7.87	609.62	
AAMMMM	Roseville - Marketing & Sales	2	2	0.04	0.06	0.10	
AA	CIMS Lab, Inc. Roseville	1,003	5,004	6,040.02	142.14	6,532.85	

**Figure A-21 • Detail by Rate Group Report Example**

## Detail by Rate Group/Identifier Report

**File name:** RDETR002.rpt

**Stored Procedure:** CIMSSP\_Drilldown\_by\_RateGroup\_Identifier

This report is similar to the Detail by Rate Group report (see [page A-32](#)). However, the resource units are broken down by identifier value for the identifier name selected.

**Drilldown:** None

**Parameters:**

- Rate Group
- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Identifier

**Report Example**

Account	OS/390 Jobs Started	OS/390 Steps Started	OS/390 Cpu Minutes	OS/390 Cpu Minutes (Initiators)	OS/390 Cpu Minutes (All)	Batch Cred
<b>AADDDD - Roseville - CIMS Lab Development</b>						
BKALJCAT		4	0.14	0.00	0.15	
BKALJDLB	2	10	0.25	0.01	0.28	
BKALJRES	1	5	0.12	0.00	0.14	
BKALJSPL	1	10	0.21	0.01	0.24	
BKALJST1	1	5	0.06	0.00	0.07	
BKALJST2	2	10	0.12	0.01	0.13	
BKALJSY1		4	0.12	0.00	0.14	
BKALJSY2	2	10	0.26	0.01	0.29	
BKALJSY3		4	0.13	0.00	0.14	
BKALJSY4	1	9	0.25	0.01	0.29	
BKALJSY5	1	9	0.26	0.01	0.30	
BKFWKP01	1	10	0.02	0.01	0.03	
DAA03	2	4	0.63	0.01	0.74	
DAA27	1	2	0.24	0.01	0.26	
DEALJCC	6	6		n nn	n nn	

**Figure A-22 • Detail by Rate Group/Identifier Report Example**

## **Invoice by Account Level V2 Report**

**File name:** RINVC001.rpt

See *Invoice by Account Level Report* on page A-41.

## **Alternate Invoice Report**

**File name:** RINVC002.rpt

**Stored Procedure:** CIMSSP\_Summary

This report provides charges by account code and rate code description for the parameters selected. An optional graph showing total expenses by account code is also included.

### **Drilldown:**

- Double-click a bar on the graph and the invoice appears.
- Click the units for a rate and a new page appears to enable a drilldown of units by identifier. This page invokes the report Invoice Drilldown for Rate (see [page A-13](#)), Invoice Drilldown for Units by Date ([page A-15](#)), or Multilevel Drilldown for Units (see [page A-16](#)).
- Double-click a rate code description or its corresponding rate or charge and the next lower level of the account structure appears. This drilldown can be continued through the account structure.

### **Parameters:**

- Invoice Level
- Invoice Number
- Display Graph
- Starting and Ending Account Code
- From and To Date

## Report Example

Alternate Invoice      Publish      Return      Help

Preview

- ⊞ CIMS Lab, Inc. Roseville
- ⊞ CIMS Lab, Inc. Gibbstboro
- ⊞ CIMS Lab, Inc. Laurel
- ⊞ CIMS Lab, Inc. International
- ⊞ CIMS Lab, Inc. Services

**CIMS**

**Invoice**      Invoice No. 5  
Billing Period: 6/1/2003 to 6/30/2003

**Big Time Company**  
Corporate Headquarters  
3013 Douglas Blvd.  
Suite 120  
Roseville, CA 95661

---

EE - CIMS Lab, Inc. Services

	Units	Rate	Charge
OS/390 Jobs Started	41	2.50000000	102.50
OS/390 Steps Started	16	0.50000000	8.00
OS/390 Cpu Minutes	0.01	20.00000000	0.12
OS/390 Cpu Minutes (Initiators)	0.01	0.00000000	0.00
OS/390 Cpu Minutes (All)	0.01	0.00000000	0.00
Total SIOs	36	0.0000 /M	0.00
Disk SIOs	36	0.2500 /M	0.01
Input Records	2	1.00000000 /M	0.00
Disk Data Sets	2	0.25000000	0.50
MS Windows Disk Size in MB	11,000,000	0.00000000 /M	0.00

Figure A-23 • Alternate Invoice Report Example

## Account Total Invoice Report

**File name:** RINVC003.rpt

**Stored Procedure:** CIMSSP\_Account\_Summary

This report provides the total charges by each level of the account code structure for the parameters selected.

### Drilldown:

- Click the **Invoice** link and a complete invoice for the account code level appears (see *Invoice Report* on page A-39).

### Parameters:

- Starting and Ending Account Code
- From and To Date

### Report Example

Account Total Invoice

Account Range: All  
Date Range: 6/1/2003 to 6/30/2003

Account	Invoice Amount	
CIMS Lab, Inc. Gibbboro	16,889.70	<a href="#">Invoice</a>
- Gibbboro - CIMS Lab Development	15,114.31	<a href="#">Invoice</a>
- Gary	766.43	<a href="#">Invoice</a>
- BBDDDDGGblackd.exe blac	20.74	<a href="#">Invoice</a>
- BBDDDDGGblackice.exe blac	52.82	<a href="#">Invoice</a>
- BBDDDDGGdllhost.exe dllh	388.58	<a href="#">Invoice</a>
- BBDDDDGGgarym garym	22.04	<a href="#">Invoice</a>
- BBDDDDGGIRLMPROC*	64.52	<a href="#">Invoice</a>
- BBDDDDGGllsrv.exe llss	0.34	<a href="#">Invoice</a>
- BBDDDDGGgraph /	0.00	<a href="#">Invoice</a>
- BBDDDDGGgraph /usr	0.00	<a href="#">Invoice</a>
- BBDDDDGGgraph 4Dgifts	0.24	<a href="#">Invoice</a>
- BBDDDDGGgraph adm	0.12	<a href="#">Invoice</a>
- BBDDDDGGgraph arsap	6.12	<a href="#">Invoice</a>
- BBDDDDGGgraph bin	1.56	<a href="#">Invoice</a>
- BBDDDDGGgraph demos	1.56	<a href="#">Invoice</a>
- BBDDDDGGgraph george	11.40	<a href="#">Invoice</a>
- BBDDDDGGgraph gpereyo	0.12	<a href="#">Invoice</a>

Figure A-24 • Account Total Invoice Report Example



## Invoice with Budget Report

**File name:** RINVC004.rpt

**Stored Procedure:** CIMSSP\_LineItem\_Budget

This report provides charges by account code, rate code description, and rate group for the parameters selected. This report also includes a Budget and Variance field for the calendar period selected and YTD Charges, Budget, and Variance fields.

### Drilldown:

- Click the units for a rate and a new page appears to enable a drilldown of units by identifier. This page invokes the report Invoice Drilldown for Rate (see [page A-13](#)), Invoice Drilldown for Units by Date ([page A-15](#)), or Multilevel Drilldown for Units (see [page A-16](#)).
- Click the rate group name in the **Total** line and a new page appears to enable a drilldown of charges by identifier. This page invokes the Invoice Drilldown for Rate Group (see [page A-10](#)) or Invoice Drilldown for Rate Group by Date ([page A-12](#)) report.

### Parameters:

- Invoice Level
- Calendar Period
- Invoice Number
- Starting and Ending Account Code

Report Example

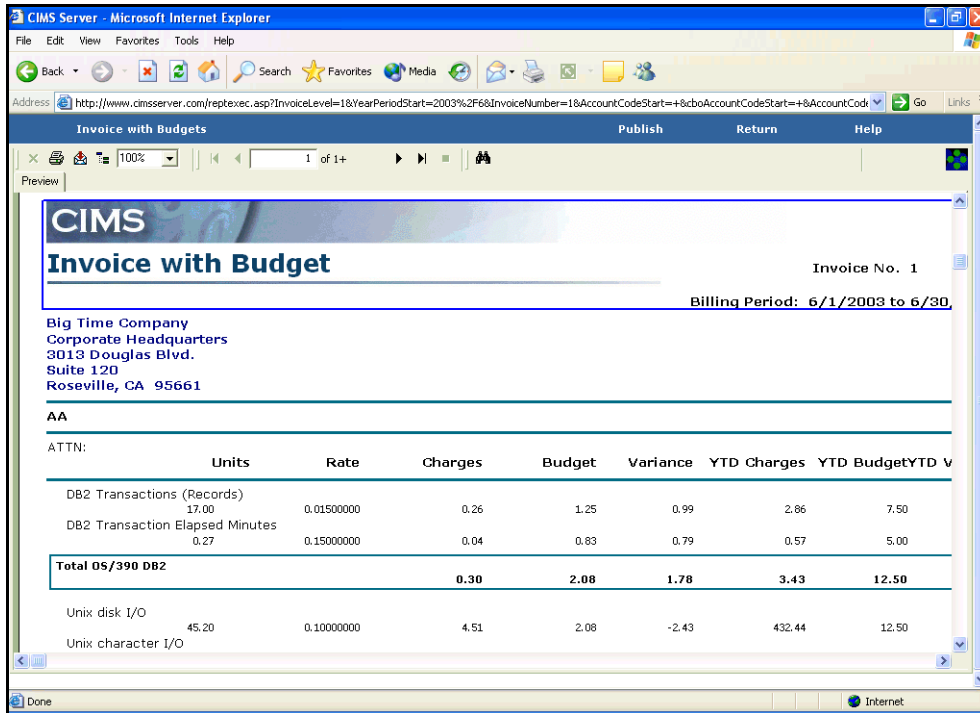


Figure A-25 • Invoice with Budget Report Example

## Invoice Report

**File name:** RINVC006.rpt

**Stored Procedure:** None

This report provides charges by account code, rate code description, and rate group for the parameters selected. This report is invoked by clicking the **Invoice** link for the account code in the following reports.

- Account Total Invoice (see [page A-34](#))
- Top Cost (see [page A-54](#))
- Top 10 Bar Graph (see [page A-56](#))
- Top 10 Pie Chart (see [page A-58](#))

### Drilldown:

- Click the units for a rate and a new page appears to enable a drilldown of units by identifier. This page invokes the report Invoice Drilldown for Rate (see [page A-13](#)), Invoice Drilldown for Units by Date ([page A-15](#)), or Multilevel Drilldown for Units (see [page A-16](#)).
- Click the rate group name in the **Total** line and a new page appears to enable a drilldown of charges by identifier. This page invokes the Invoice Drilldown for Rate Group (see [page A-10](#)) or Invoice Drilldown for Rate Group by Date ([page A-12](#)) report.

### Parameters:

- All parameters are supplied by the report from which the invoice is invoked.

Report Example

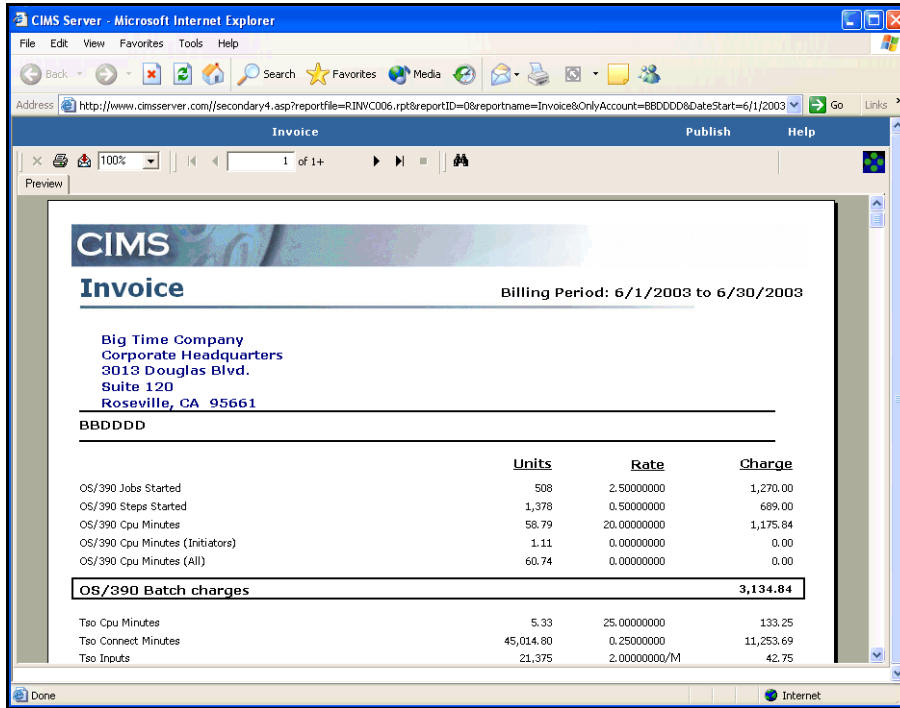


Figure A-26 • Invoice Report Example

## Invoice by Account Level Report

**File name:** RINVC007.rpt

**Stored Procedure:** CIMSSP\_Summary

This key report provides charges by account code, rate group, and rate code description for the parameters selected. An optional graph showing total expenses by account code is also included.

### Drilldown:

- Double-click a bar on the graph and the invoice appears.
- Click the units for a rate and a new page appears to enable a drilldown of units by identifier. This page invokes the report Invoice Drilldown for Rate (see [page A-13](#)), Invoice Drilldown for Units by Date ([page A-15](#)), or Multilevel Drilldown for Units (see [page A-16](#)).
- Click the rate group name in the **Total** line and a new page appears to enable a drilldown of charges by identifier. This page invokes the Invoice Drilldown for Rate Group (see [page A-10](#)) or Invoice Drilldown for Rate Group by Date ([page A-12](#)) report.
- (Invoice by Account Level V2 only) Double-click a rate code description or its corresponding rate or charge and the next lower level of the account structure appears. This drilldown can be continued through the account structure.

### Parameters:

- Invoice Level
- Invoice Number
- Display Graph
- Starting and Ending Account Code
- From and To Date

Report Example

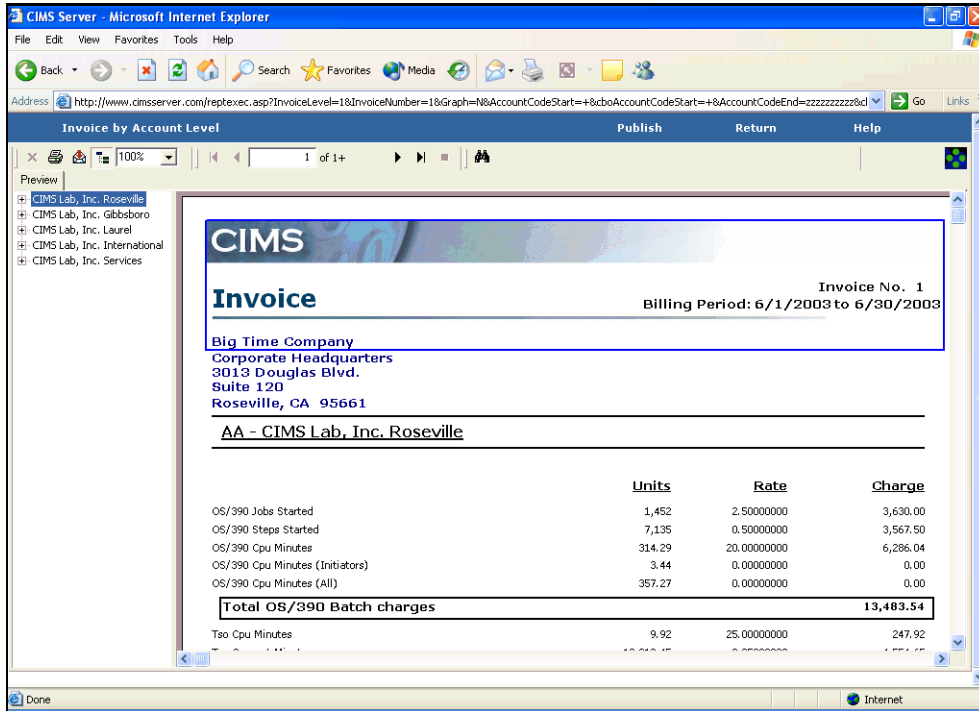


Figure A-27 • Invoice by Account Level Report Example

## Invoice with Shifts Report

**File name:** RINVC009.rpt

**Stored Procedure:** CIMSSP\_Summary\_Shift

This report provides charges by account code, rate group, and rate code description broken down by shift for the parameters selected.

### Drilldown:

- Double-click a bar on the graph and the invoice appears.
- Click the units for a rate and a new page appears to enable a drilldown of units by identifier. This page invokes the report Invoice Drilldown for Rate (see [page A-13](#)), Invoice Drilldown for Units by Date ([page A-15](#)), or Multilevel Drilldown for Units (see [page A-16](#)).
- Click the rate group name in the **Total** line and a new page appears to enable a drilldown of charges by identifier. This page invokes the Invoice Drilldown for Rate Group (see [page A-10](#)) or Invoice Drilldown for Rate Group by Date ([page A-12](#)) report.

### Parameters:

- Invoice Level
- Invoice Number
- Display Graph
- Starting and Ending Account Code
- From and To Date

Report Example

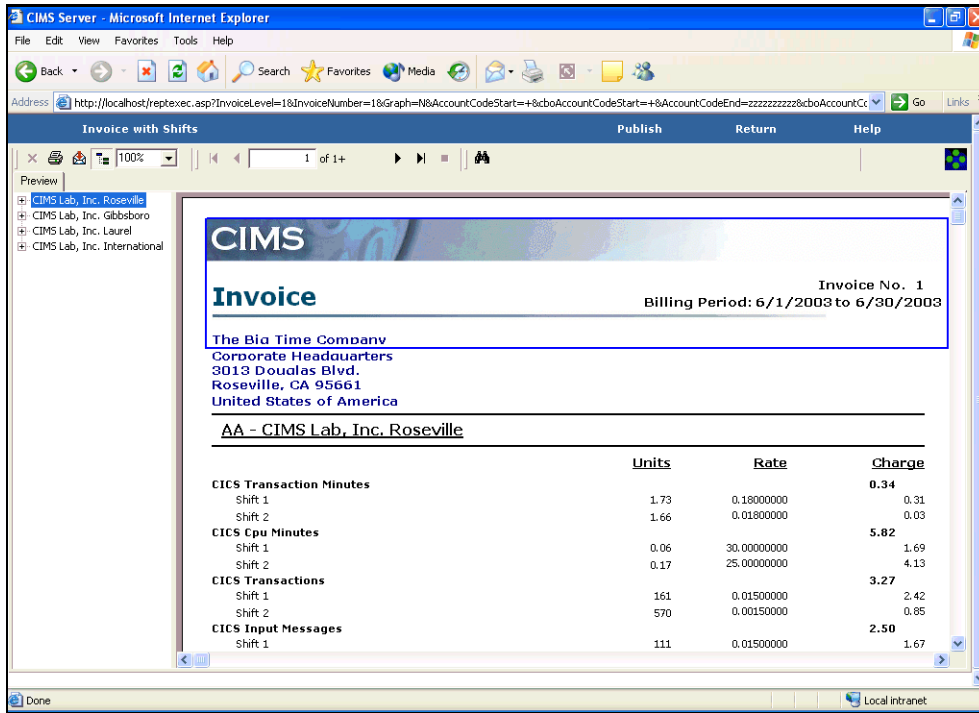


Figure A-28 • Invoice with Shifts Report Example



## Run Total Invoice Report

**File name:** RIVTC001.rpt

**Stored Procedure:** CIMSSP\_Summary

This report provides total charges by rate group and rate code description for the parameters selected.

**Drilldown:**

- Double-click a rate code description or its corresponding units, rate, or charge and a breakdown of data by account code appears.

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

The screenshot shows a web browser window titled "CIMS Server - Microsoft Internet Explorer" displaying a "Run Total Invoice" report. The report is for "Big Time Company Corporate Headquarters" and covers the billing period from 6/1/2003 to 6/30/2003. The report lists various charges with their respective units, rates, and total charges. The total charge for OS/390 Batch charges is highlighted as 20,895.13.

	Units	Rate	Charge
OS/390 Jobs Started	1,929	2.50000000	4,822.50
OS/390 Steps Started	10,210	0.50000000	5,105.00
OS/390 Cpu Minutes	548.37	20.00000000	10,967.63
OS/390 Cpu Minutes (Initiators)	6.71	0.00000000	0.00
OS/390 Cpu Minutes (All)	605.60	0.00000000	0.00
<b>Total OS/390 Batch charges</b>			<b>20,895.13</b>
Tso Cpu Minutes	12.09	25.00000000	302.39
Tso Connect Minutes	46,633.53	0.25000000	11,658.42
Tso Inputs	33,750	2.00000000 /M	67.48
Tso Outputs	35,857	1.00000000 /M	35.89
Tso Cpu Minutes (Initiator)	0.18	0.00000000	0.00

Figure A-29 • Run Total Invoice Report Example

## **Run Total Percent Report**

**File name:** RIVTC002.rpt

**Stored Procedure:** CIMSSP\_Summary

This report is the same as the Run Total Invoice 1 report (see [page A-45](#)) except that the drilldown includes percent total by account code in addition to units, rate, and charge.

### **Drilldown:**

- Double-click a rate code description or its corresponding units, rate, or charge and a breakdown of data by account code appears.

You can set the number of account codes that appear in the drilldown using the TopN parameter. For example, if you type 2 as the TopN parameter, only the account codes with the highest and second highest charges appear when you drill down. If you leave the TopN parameter blank, all account codes for the parameters selected appear.

### **Parameters:**

- Invoice Level
- TopN
- Starting and Ending Account Code
- From and To Date

## Run Total Rate Group Percent Report

**File name:** RIVTC003.rpt

**Stored Procedure:** CIMSSP\_Summary

This report provides charges and percentage by rate groups for the parameters selected.

**Drilldown:**

- Double-click the charge or percentage for a rate code description and breakdown of data by account code appears.

You can set the number of account codes that appear in the drilldown using the TopN parameter. For example, if you type 2 as the TopN parameter, only the account codes with the highest and second highest charges appear when you drill down. If you leave the TopN parameter blank, all account codes for the parameters selected appear.

**Parameters:**

- Invoice Level
- TopN
- Starting and Ending Account Code
- From and To Date

**Report Example**

The screenshot shows a web browser window titled 'CIMS Server - Microsoft Internet Explorer'. The address bar contains a URL with parameters for InvoiceLevel, TopN, AccountCodeStart, and AccountCodeEnd. The main content area displays the report 'CIMS Run Total Rate Group Percent'. The report includes the following information:

**Account Range:** All  
**Date Range:** 6/1/2003 to 6/30/2003

**Big Time Company**  
 Corporate Headquarters  
 3013 Douglas Blvd.  
 Suite 120  
 Roseville, CA 95661

Rate Group	Charge	%
Total OS/390 Batch charges	20,895.13	19.40%
Total OS/390 Tso charges	12,064.18	11.20%
Total OS/390 Input/Output charges	11,560.22	10.74%
Total OS/390 Printer/Reader charges	401.84	0.37%
Total OS/390 Storage charges	8,491.25	7.89%
Total OS/390 DB2 charges	0.30	0.00%
Total Unix interactive job type charges	421.90	0.39%

**Figure A-30 • Run Total Rate Group Percent Report Example**

## **Run Total Invoice with Drilldown Report**

**File name:** RIVTC004.rpt

**Stored Procedure:** CIMSSP\_Summary

This report is the same as the Run Total Invoice report (see [page A-45](#)) except that this report provides drilldown by identifier for resource units and rate group and includes two additional parameters.

### **Drilldown:**

- Click the units for a rate and a new page appears to enable a drilldown of units by identifier. This page invokes the report Invoice Drilldown for Rate (see [page A-13](#)), Invoice Drilldown for Units by Date ([page A-15](#)), or Multilevel Drilldown for Units (see [page A-16](#)).
- Click the rate group name in the **Total** line and a new page appears to enable a drilldown of charges by identifier. This page invokes the Invoice Drilldown for Rate Group (see [page A-10](#)) or Invoice Drilldown for Rate Group by Date ([page A-12](#)) report.
- Double-click a rate code description or its corresponding rate or charge and a breakdown of data by account code appears.

### **Parameters:**

- Invoice Level
- Invoice Number
- Display Graph
- Starting and Ending Account Code
- From and To Date

## Zero Cost Center Invoice Report

**File name:** RIVZC001.rpt

**Stored Procedure:** None

This report provides zero cost invoicing by account code for the parameters selected. You can adjust the total invoice amount or the amount for each rate by the zero cost amount.

This report first displays the Zero Cost Center Factor Report. The Zero Cost Center Factor Report shows the zero factor difference between the total amount due for all account codes and the zero cost amount. You can run the Zero Cost Center Factor Report independently (see [page A-51](#)).

### Drilldown:

- Click the units for a rate and a new page appears to enable a drilldown of units by identifier. This page invokes the report Invoice Drilldown for Rate (see [page A-13](#)), Invoice Drilldown for Units by Date ([page A-15](#)), or Multilevel Drilldown for Units (see [page A-16](#)).
- Click the rate group name in the **Total** line and a new page appears to enable a drilldown of charges by identifier. This page invokes the Invoice Drilldown for Rate Group (see [page A-10](#)) or Invoice Drilldown for Rate Group by Date ([page A-12](#)) report.

### Parameters:

- Starting and Ending Account Code
- Invoice Level
- From and To Date
- Invoice Number
- Zero Cost Processing Option
- Zero Cost Amount

Report Examples:

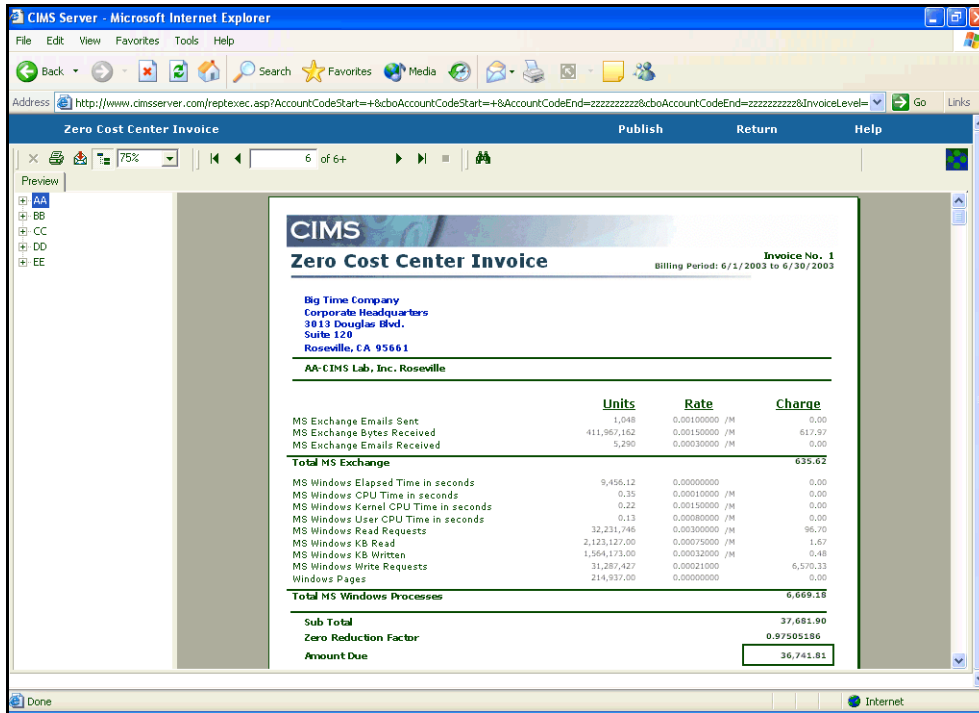


Figure A-31 • Zero Cost Center Invoice–Factor Total Report Example

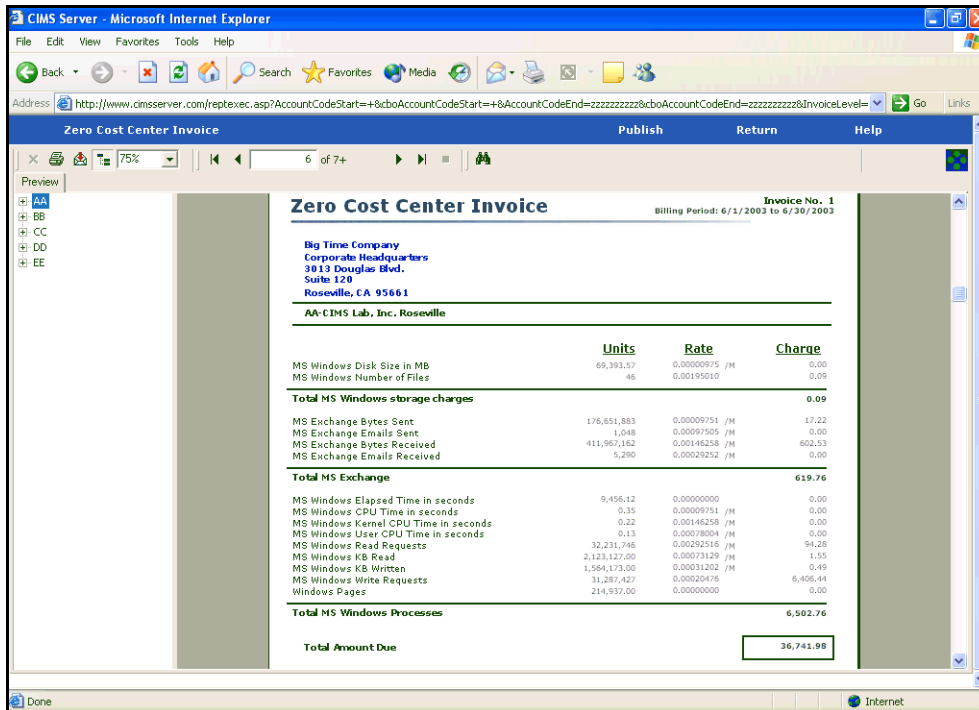


Figure A-32 • Zero Cost Center Invoice–Factor Rates Report Example

## Zero Cost Center Factor Report

**File name:** RIVZC002.rpt

**Stored Procedure:** None

This report appears as the first report in the Zero Cost Center Invoice (see [page A-49](#)); however, you can also run this report independently. The last page of this report provides the zero factor difference between the total amount due for all account codes and the zero cost amount.

**Drilldown:**

- Double-click a rate code description or its units, rate or charge and a breakdown of charges by account code appears.

**Parameters:**

- Starting and Ending Account Code
- From and To Date
- Zero Cost Amount

**Report Example**

Zero Cost Center Invoice			
<b>Total MS IIS</b>			<b>508.43</b>
MS Exchange Bytes Sent	227,112,099	0.00010000 /M	22.61
MS Exchange Emails Sent	1,663	0.00150000 /M	0.00
MS Exchange Bytes Received	646,785,228	0.00150000 /M	970.19
MS Exchange Emails Received	7,201	0.00030000 /M	0.00
<b>Total MS Exchange</b>			<b>992.80</b>
MS Windows Elapsed Time in seconds	40,158.62	0.00000000	0.00
MS Windows CPU Time in seconds	29.46	0.00010000 /M	0.00
MS Windows Kernel CPU Time in seconds	4.64	0.00150000 /M	0.00
MS Windows User CPU Time in seconds	24.82	0.00080000 /M	0.00
MS Windows Read Requests	74,984,313	0.00300000 /M	224.87
MS Windows KB Read	340,802,721.00	0.00075000 /M	255.58
MS Windows KB Written	111,238,959.00	0.00032000 /M	35.53
MS Windows Write Requests	47,101,527	0.00021000	9,891.39
Windows Pages	16,259,935.00	0.00000000	0.00
<b>Total MS Windows Processes</b>			<b>10,407.37</b>
<b>Amount Due</b>			<b>107,686.58</b>
<b>Zero Value</b>			<b>105,000.00</b>
<b>Zero Factor</b>			<b>0.97505186</b>
Run on: 6/13/2003 at 2:05:30PM			Page 3

**Figure A-33 • Zero Cost Center Factor Report Example**

## Percentage Report

**File name:** RPERX001.rpt

**Stored Procedure:** CIMSSP\_Summary

This report provides the total charge by account code for the parameters selected and specifies the percentage of that charge in relationship to the total charges for all account codes. This report also provides a breakdown of the percentage by rate group and rate code description for each account code.

### Drilldown:

- Double-click an account code and a breakdown of percentage by rate group appears. Double-click a rate group and a breakdown of percentage by rate code description appears.

### Parameters:

- Invoice Level
- Starting and Ending Account Code
- From and To Date

### Report Example

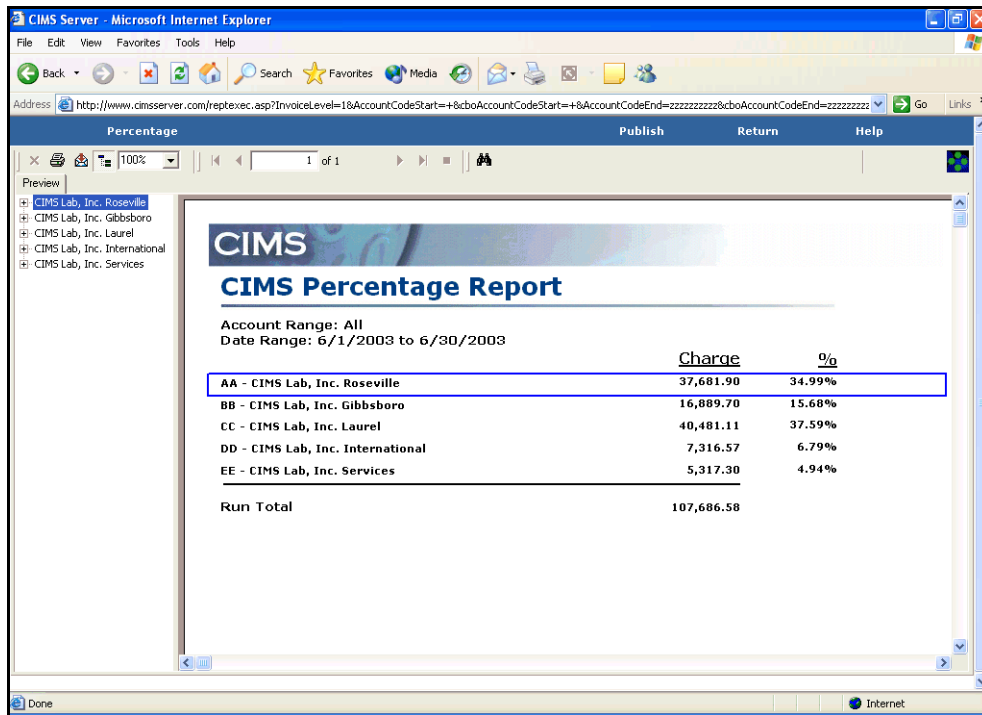


Figure A-34 • Percentage Report Example



## Rate Report

**File name:** RRATX001.rpt

**Stored procedure:** None

This report provides the information contained in the CIMS Rate and Rate Group tables.

**Drilldown:** None

**Parameters:** None

**Report Example**

**CIMS Rate Report**

Description	Print Order	Rate Value	Per thou	Rsrc Conv	Zero Cost	Resource Dec	Flat Fee	Disc	CPU Value	Comments
<b>Rate Table: STANDARD</b>										
Rate Group: 1 - All unassigned rate codes										
Rate: LLY103 Grace Storage Exteris		786	0.00000000			0			N	
Rate Group: 2 - OS/390 Batch charges										
Rate: Z001 OS/390 Jobs Started	1	2.50000000				0			N	
Rate: Z002 OS/390 Steps Started	3	0.50000000				0			N	
Rate: Z003 OS/390 Cpu Minutes	5	20.00000000		1		2			Y	
Rate: Z032 OS/390 Cpu Minutes (Initiators)	7	0.00000000		1		2			Y	
Rate: Z033 OS/390 Cpu Minutes (All)	8	0.00000000		1		2			Y	
Rate: CREDBAT Batch Credit	11	-1.00000000				2			N	
Rate: SMF30CPT OS/390 CPU Minutes (TCB)	918	0.00000000		1		2			Y	New for CIMS Server
Rate Group: 3 - OS/390 Tso charges										
Rate: Z200 Tso Cpu Minutes	13	25.00000000		1		2			Y	
Rate: Z204 Tso Connect Minutes	15	0.25000000				2			N	
Rate: Z021 Tso Inputs	16	2.00000000				0			N	
Rate: Z022 Tso Outputs	18	1.00000000				0			N	
Rate: Z034 Tso Cpu Minutes (Tcb)	19	0.00000000		1		2			Y	
Rate: Z035 Tso Cpu Minutes (Initiator)	20	0.00000000		1		2			Y	
Rate: Z036 Tso Cpu Minutes (All)	21	0.00000000		1		2			Y	
Rate Group: 4 - OS/390 Service Unit charges										
Rate: SMF30SRV Total Service Units	913	0.00000000				0			N	New Rate code for CDM
Rate: SMF30CSU CPU Service Units	914	0.00000000				0			N	New rate code for CIMS
Rate: SMF30CDB OS/390 Database Units	915	0.00000000				0			N	New rate code for CIMS

Figure A-35 • Rate Report Example

## Top Cost Report

**File name:** RTOPC001.rpt

**Stored Procedure:** CIMSSP\_Summary

This report provides the account codes with the highest charges for the parameters selected. For example, if you type 3 as the TopN parameter, the three account codes with the highest charges appear (see example [Figure A-36](#) on page A-55). If you leave the TopN parameter blank, the account codes with the ten highest charges appear.

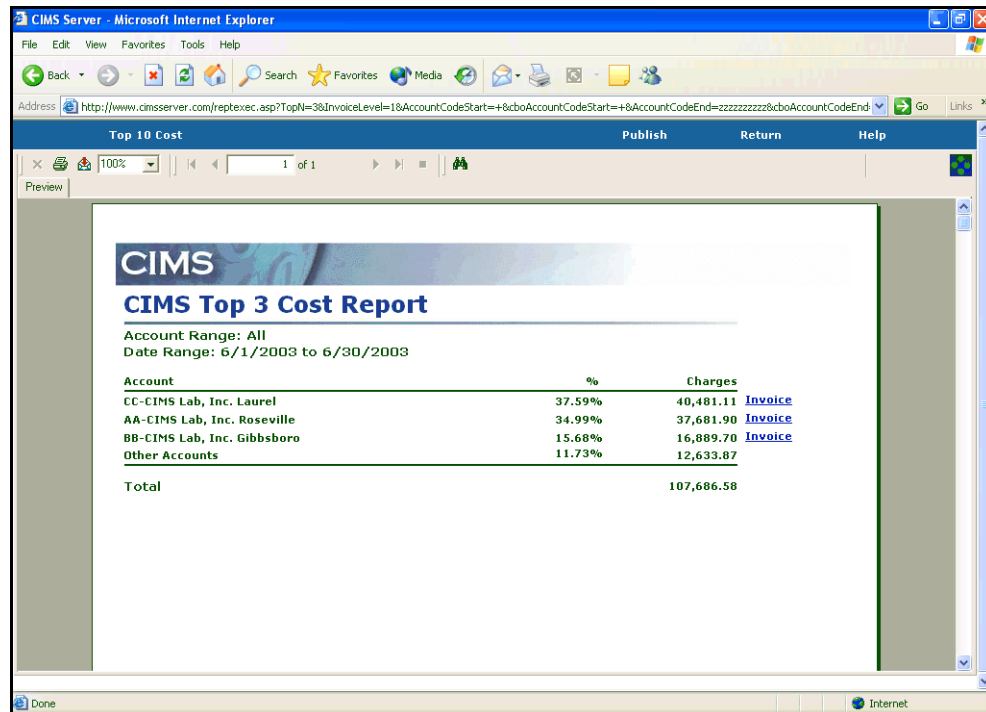
### Drilldown:

- Click the **Invoice** link and a complete invoice for the account code level appears (see [Invoice Report](#) on page A-39).
- Double-click an account code or its corresponding percent or charge and a breakdown of charges by rate group appears.

### Parameters:

- TopN
- Invoice Level
- Starting and Ending Account Code
- From and To Date

## Report Example



The screenshot shows a Microsoft Internet Explorer browser window displaying a report titled "CIMS Top 3 Cost Report". The browser address bar shows a URL from "http://www.cimserver.com/reptexec.asp?". The report content includes a header with the CIMS logo, the report title, and the following details:

Account Range: All  
Date Range: 6/1/2003 to 6/30/2003

Account	%	Charges
CC-CIMS Lab, Inc. Laurel	37.59%	40,481.11 <a href="#">Invoice</a>
AA-CIMS Lab, Inc. Roseville	34.99%	37,681.90 <a href="#">Invoice</a>
BB-CIMS Lab, Inc. Gibbsboro	15.68%	16,889.70 <a href="#">Invoice</a>
Other Accounts	11.73%	12,633.87
<b>Total</b>		<b>107,686.58</b>

Figure A-36 • Top Cost Report Example

## Top 10 Bar Graph Report

**File name:** RTOPC002.rpt

**Stored Procedure:** CIMSSP\_Summary

This report is similar to the Top Cost Report (see [page A-54](#)). However, it provides accounts codes with the 10 highest charges for the parameters selected and it provides the data in bar graph as well as table format.

### Drilldown:

- Click the **Invoice** link and a complete invoice for the account code level appears (see [Invoice Report](#) on page A-39).
- Double-click an account code or its corresponding percent or charge and a breakdown of charges by rate code description appears in both bar graph and table format.

### Parameters:

- Invoice Level
- Starting and Ending Account Code
- From and To Date

## Report Example

**Note** • In the following example, there are only five account codes for the account code level selected.

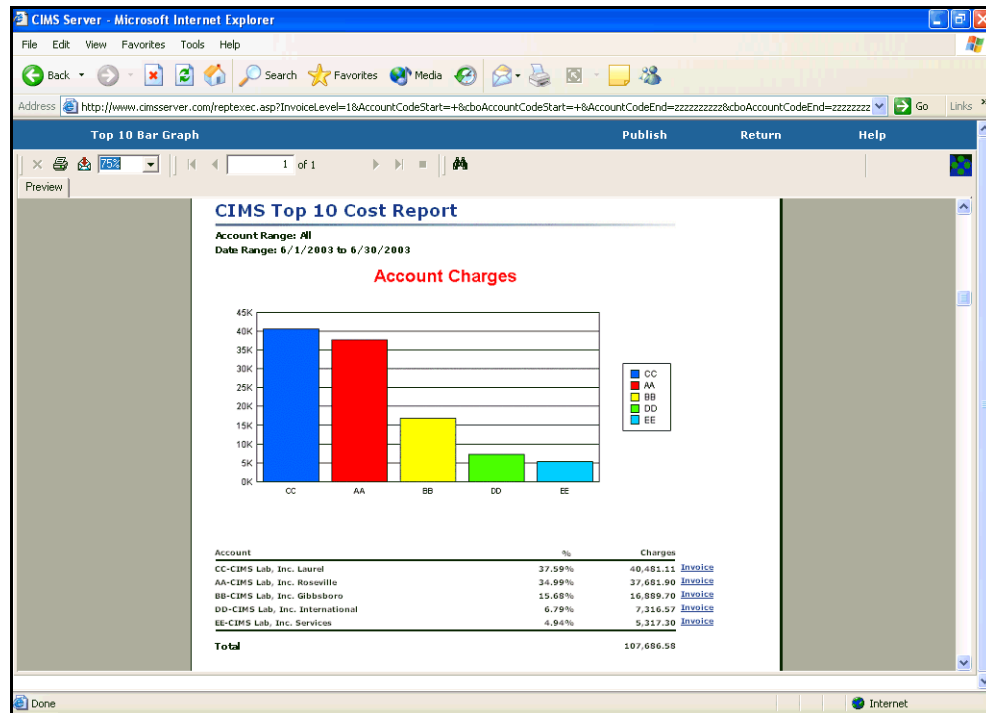


Figure A-37 • Top 10 Bar Graph Report Example

## Top 10 Pie Chart Report

**File name:** RTOPC003.rpt

**Stored Procedure:** CIMSSP\_Summary

This report is similar to the Top Cost Report (see [page A-54](#)). However, it provides accounts codes with the 10 highest charges for the parameters selected and it provides the data in pie chart as well as table format.

### Drilldown:

- Click the **Invoice** link and a complete invoice for the account code level appears (see [Invoice Report](#) on page A-39).
- Double-click an account code or its corresponding percent or charge and a breakdown of charges by rate code description appears in both pie chart and table format.

### Parameters:

- Invoice Level
- Starting and Ending Account Code
- From and To Date

## Report Example

**Note** • In the following example, there are only five account codes for the account code level selected.

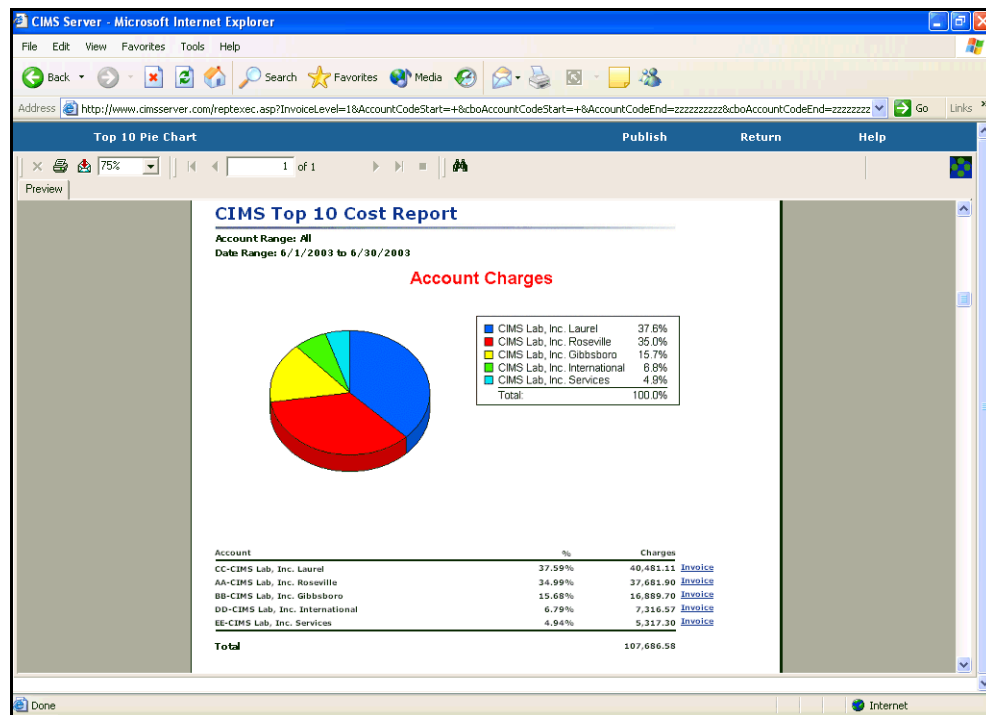


Figure A-38 • Top 10 Pie Chart Report Example

## Top Accounts for Rate Report

**File name:** RTOPC004.rpt

**Stored Procedure:** CIMSSP\_Summary

This report provides the account codes with the highest usage of a specified rate code for the parameters selected. For example, if you type 3 as the TopN parameter, the three account codes with the highest rate code usage appear (see example [Figure A-39](#) on page A-60). If you leave the TopN parameter blank, the account codes with the ten highest rate code usage appear.

**Drilldown:** None

**Parameters:**

- TopN
- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Rate Code

**Report Example**

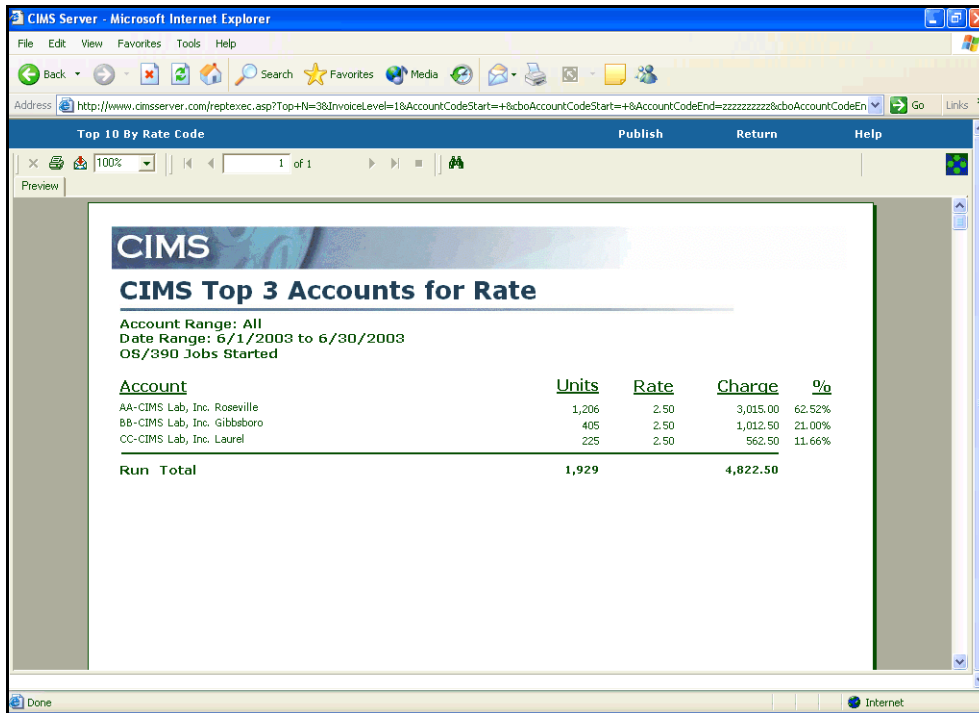


Figure A-39 • Top Accounts for Rate Report Example



## Cost Trend Report

**File name:** RTRDC001.rpt

**Stored Procedure:** CIMSSP\_Summary\_Month

This report provides total charges by account code for each month of the year for the parameters selected. Monthly charges for each account code are presented on a single line.

---

**Note • To print this report, use landscape mode on legal paper.**

---

**Drilldown:** None

**Parameters:**

- Invoice Level
- Report Year
- Starting and Ending Account Code

**Report Example**

The screenshot shows a web browser window titled "CIMS Server - Microsoft Internet Explorer". The address bar contains a URL with parameters for Invoice Level, Year, and Account Code. The main content area displays a report titled "CIMS Cost Trend For 2003". The report is a table with columns for months and rows for different account codes. The account code "EE - CIMS Lab, Inc. Services" is highlighted in blue.

Account	Charges by Month					
	January	February	March	April	May	June
AA - CIMS Lab, Inc. Roseville	87,382	84,449	82,234	110,604	105,392	37,682
BB - CIMS Lab, Inc. Gibbsboro	28,985	36,709	33,247	71,273	43,056	16,890
CC - CIMS Lab, Inc. Laurel	32,868	53,335	54,213	81,400	111,072	40,481
DD - CIMS Lab, Inc. International	11,080	4,617	3,702	7,323	18,517	7,317
EE - CIMS Lab, Inc. Services	6,193	7,788	6,264	11,550	9,388	5,317

**Figure A-40 • Cost Trend Report Example**

## Cost Trend by Rate Report

**File name:** RTRDC002.rpt

**Stored Procedure:** CIMSSP\_Summary\_Month

This report provides total charges by rate code description and rate group for each month of the year for the parameters selected.

---

**Note** • To print this report, use landscape mode on legal paper.

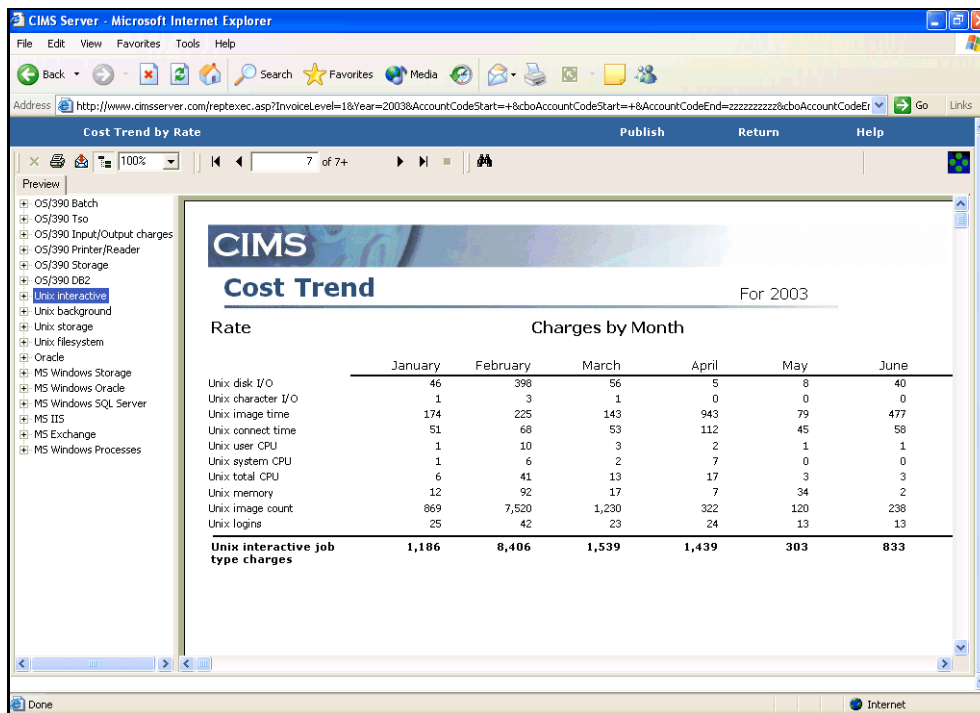
---

**Drilldown:** None

**Parameters:**

- Invoice Level
- Report Year
- Starting and Ending Account Code

**Report Example**



**Figure A-41 • Cost Trend by Rate Report Example**

## Resource Usage Trend Report

**File name:** RTRDR001.rpt

**Stored Procedure:** CIMSSP\_Summary\_Month

This report provides total resource usage by rate code for each month of the year for the parameters selected. This report is ordered by account code, rate group, and rate code.

**Note** • To print this report, use landscape mode on legal paper.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Report Year
- Starting and Ending Account Code

**Report Example**

The screenshot shows a web browser window titled "CIMS Server - Microsoft Internet Explorer" displaying the "Resource Usage Trend" report. The report is for the year 2003 and is filtered by account code "CC - CIMS Lab, Inc. Laurel". The report displays usage by month for various rate codes, categorized into "OS/390 Batch charges" and "OS/390 Tso charges".

Rate	Usage by Month					
	January	February	March	April	May	June
<b>OS/390 Batch charges</b>						
OS/390 Jobs Started	300	438	324	651	626	225
OS/390 Steps Started	1,784	3,262	2,479	4,762	4,741	1,680
OS/390 Cpu Minutes	357.74	258.30	165.07	357.54	299.89	148.64
OS/390 Cpu Minutes (Initiators)	359.06	260.61	166.73	119.92	3.14	1.11
OS/390 Cpu Minutes (All)	386.90	282.44	179.07	386.39	324.77	161.16
<b>OS/390 Tso charges</b>						
Tso Cpu Minutes	7.67	7.09	4.61	8.31	6.83	1.60
Tso Connect Minutes	5,633.82	16,009.44	6,259.56	7,115.68	12,004.80	1,555.60
Tso Inputs	24,215	18,840	11,334	20,475	11,344	3,577
Tso Outputs	25,209	19,857	13,297	22,838	13,774	4,001
Tso Cpu Minutes (Teb)	3.97					
Tso Cpu Minutes (Initiator)	7.75	7.18	4.69	2.40	0.12	0.04

**Figure A-42 • Resource Usage Trend Report Example**

## Transaction Report

**File name:** RTRNX001.rpt

**Stored procedure:** None

This report provides the Miscellaneous, Recurring and Credit, transactions for the parameters selected. For more information about transactions, see *Chapter 5, Using Transactions*.

**Drilldown:** None

**Parameters:**

- Transaction Type
- Starting and Ending Account Code
- From and To Date

**Report Example**

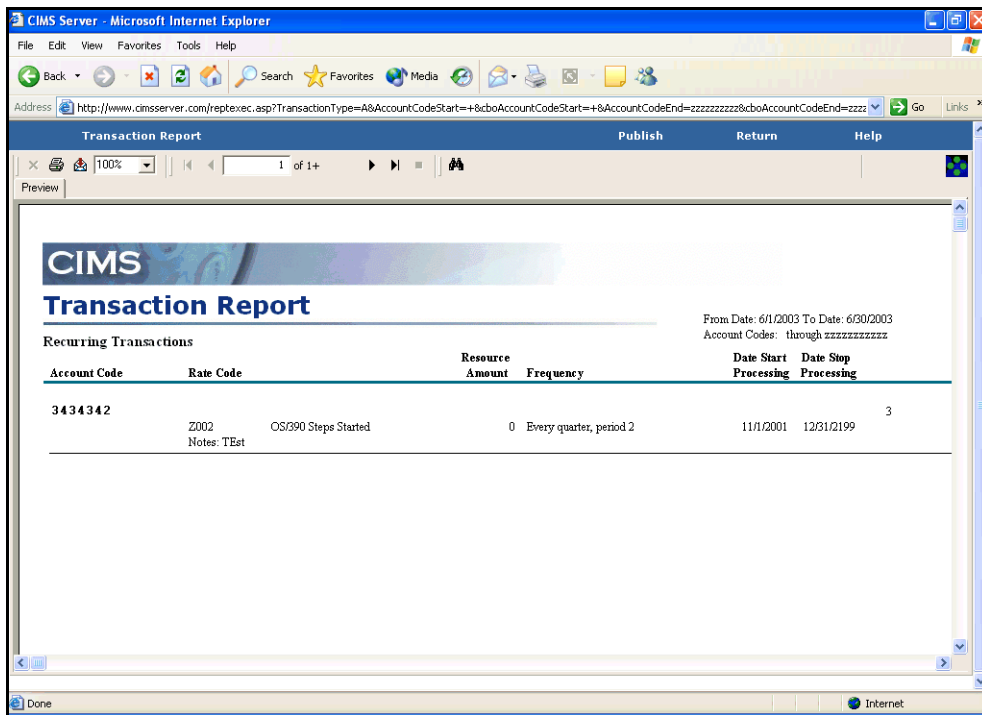


Figure A-43 • Transaction Report Example

## Cost Variance Report

**File name:** RVARC001.rpt

**Stored Procedure:** CIMSSP\_Variance

This report provides a comparison of charges by account code, rate code description, and rate group for a specified month and the month prior for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Report Month
- Report Year
- Starting and Ending Account Code

**Report Example**

The screenshot shows a web browser window titled "CIMS Server - Microsoft Internet Explorer" displaying a "Cost Variance" report for "June 2003". The report is for "BB-CIMS Lab, Inc. Gibbsboro". The table below summarizes the data shown in the report.

	May 2003	Jun 2003	Variance	Percent
OS/390 Jobs Started	5,377.50	1,012.50	-4,365.00	-81.17
OS/390 Steps Started	2,302.00	428.00	-1,874.00	-81.41
OS/390 Cpu Minutes	4,284.05	2,083.74	-2,200.31	-51.36
<b>OS/390 Batch charges</b>	<b>11,963.55</b>	<b>3,524.24</b>	<b>-8,439.31</b>	<b>-70.54</b>
Tso Cpu Minutes	470.22	60.27	-409.95	-87.18
Tso Connect Minutes	14,938.12	7,455.32	-7,482.80	-50.09
Tso Inputs	214.65	17.39	-197.26	-91.90
Tso Outputs	115.57	9.16	-106.41	-92.07
<b>OS/390 Tso charges</b>	<b>15,738.56</b>	<b>7,542.14</b>	<b>-8,196.42</b>	<b>-52.08</b>
Disk SIOs	929.59	352.93	-576.66	-62.03
Tape SIOs	1,284.06	679.38	-604.68	-47.09
<b>OS/390 Input/Output charges</b>	<b>2,213.65</b>	<b>1,032.31</b>	<b>-1,181.34</b>	<b>-53.37</b>
Input Records	56.85	33.12	-23.73	-41.74
<b>OS/390 Printer/Reader charges</b>	<b>56.85</b>	<b>33.12</b>	<b>-23.73</b>	<b>-41.74</b>

**Figure A-44 • Cost Variance Report Example**

## Cost Variance Drilldown Report

**File name:** RVARC002.rpt

**Stored Procedure:** CIMSSP\_Variance

This report provides a comparison of charges by rate code description and rate group for a specified month and the month prior for the parameters selected.

### Drilldown:

- Double-click a rate code description or its corresponding monthly totals, variance, or percent and a breakdown of data by account code appears.

### Parameters:

- Invoice Level
- Report Year
- Report Month
- Starting and Ending Account Code

### Report Example

The screenshot shows a web browser window titled 'CIMS Server - Microsoft Internet Explorer'. The address bar contains a URL with parameters for Invoice Level, Year, Reporting Year, Reporting Month, and Reporting Date. The main content area displays a report titled 'Cost Variance Drilldown' for June 2003. The report is presented as a table with columns for 'May 2003', 'Jun 2003', 'Variance', and 'Percent'. The 'OS/390 Input/Output charges' row is highlighted with a blue border.

	May 2003	Jun 2003	Variance	Percent
OS/390 Batch charges	17,212.50	4,022.50	-12,390.00	-71.98
OS/390 Tso charges	15,692.50	5,105.00	-10,587.50	-67.47
OS/390 Input/Output charges	22,782.16	10,967.63	-11,814.53	-51.86
OS/390 Printer/Reader charges				
OS/390 Storage charges				
OS/390 DB2 charges				
Unix interactive job type charges				
Unix background job type charges				
Unix storage charges				
Oracle charges				
MS Windows storage charges				
MS Windows Oracle charges				
MS Windows SQL Server				
MS IIS				
MS Exchange				
MS Windows Processes				
<b>OS/390 Batch charges</b>	<b>55,687.16</b>	<b>20,895.13</b>	<b>-34,792.03</b>	<b>-62.48</b>
Tso Cpu Minutes	1,097.20	302.39	-794.81	-72.44
Tso Connect Minutes	36,760.90	11,658.42	-25,102.48	-68.29
Tso Inputs	367.88	67.48	-300.40	-81.66
Tso Outputs	208.13	35.89	-172.24	-82.76
<b>OS/390 Tso charges</b>	<b>38,434.11</b>	<b>12,064.18</b>	<b>-26,369.93</b>	<b>-68.61</b>
Diak SIOs	15,418.22	6,825.54	-8,592.68	-55.73
Tape SIOs	10,278.41	4,734.68	-5,543.73	-53.94
<b>OS/390 Input/Output charges</b>	<b>25,696.63</b>	<b>11,560.22</b>	<b>-14,136.41</b>	<b>-55.01</b>
Input Records	1,860.75	401.84	-1,458.91	-78.40
<b>OS/390 Printer/Reader charges</b>	<b>1,860.75</b>	<b>401.84</b>	<b>-1,458.91</b>	<b>-78.40</b>
Diak Data Sets	27,841.00	8,491.25	-19,349.75	-69.50
<b>OS/390 Storage charges</b>	<b>27,841.00</b>	<b>8,491.25</b>	<b>-19,349.75</b>	<b>-69.50</b>

Figure A-45 • Cost Variance Drilldown Report Example

## Resource Variance Report

**File name:** RVAR001.rpt

**Stored Procedure:** CIMSSP\_Variance

This report provides a comparison of resource usage by account code, rate group, and rate code description for a specified month and the month prior for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Report Year
- Report Month
- Starting and Ending Account Code

**Report Example**

The screenshot shows a web browser window titled "CIMS Server - Microsoft Internet Explorer" displaying a "Resource Variance" report for June 2003. The report is for "EE-CIMS Lab, Inc. Services" and compares data for May 2003 and June 2003. The report includes a table with columns for "May 2003", "Jun 2003", "Variance", and "Percent". The data is categorized into several groups: OS/390 Batch charges, OS/390 Input/Output charges, OS/390 Printer/Reader charges, OS/390 Storage charges, and Unix interactive job type charges.

	May 2003	Jun 2003	Variance	Percent
<b>OS/390 Batch charges</b>				
OS/390 Jobs Started	123	44	-79	-64.23
OS/390 Steps Started	33	16	-17	-51.52
OS/390 Cpu Minutes	0.55	0.01	-0.54	-98.75
<b>OS/390 Input/Output charges</b>				
Disk STOs	302	36	-266	-88.08
<b>OS/390 Printer/Reader charges</b>				
Input Records	12	2	-10	-83.33
<b>OS/390 Storage charges</b>				
Disk Data Sets	16	2	-14	-87.50
<b>Unix interactive job type charges</b>				
Unix disk I/O	25	35	10	42.16
Unix character I/O	43,906	39,119	-4,786	-10.90
Unix image time	762.42	714.12	-48.30	-6.33
Unix connect time	94.20	99.71	5.51	5.85

Figure A-46 • Resource Variance Report Example

## Account Summary by Week Report

**File name:** RWEKC001.rpt

**Stored Procedure:** CIMSSP\_Summary\_Day

This report provides the total weekly and monthly charges by account code and rate code description for the parameters selected.

### Drilldown:

- Double-click the charge for a week and a breakdown of charges by rate code description appears.

### Parameters:

- Invoice Level
- Starting and Ending Account Code
- From and To Date

### Report Example

The screenshot shows a web browser window titled 'CIMS Server - Microsoft Internet Explorer'. The address bar contains a URL with parameters for invoice level, account code start/end, and cbo account code end. The main content area displays the 'Account Summary by Week' report. The report has a header with the CIMS logo and the title 'Account Summary By Week' with the date range 'From: 6/1/2003 To: 6/30/2003'. Below the header is a table with two columns: 'Account' and 'Charge'. The table lists data for three accounts: AA - CIMS Lab, Inc. Roseville; BB - CIMS Lab, Inc. Gibbsboro; and CC - CIMS Lab, Inc. Laurel. The BB account row is highlighted with a blue border. The table shows weekly and monthly charges for each account, along with a total for each account.

Account	Charge
<b>AA - CIMS Lab, Inc. Roseville</b>	
Week of 6/1/2003 to 6/7/2003	20,722.47
Week of 6/8/2003 to 6/14/2003	16,959.43
June 2003	37,681.90
Total for AA - CIMS Lab, Inc. Roseville	37,681.90
<b>BB - CIMS Lab, Inc. Gibbsboro</b>	
Week of 6/1/2003 to 6/7/2003	7,264.82
Week of 6/8/2003 to 6/14/2003	9,624.88
June 2003	16,889.70
Total for BB - CIMS Lab, Inc. Gibbsboro	16,889.70
<b>CC - CIMS Lab, Inc. Laurel</b>	
Week of 6/1/2003 to 6/7/2003	22,449.70

Figure A-47 • Account Summary by Week Report Example



## Account Summary by Week–Wide Report

**File name:** RWEKCO02.rpt

**Stored Procedure:** CIMSSP\_Summary\_Day

This report is similar to the Account Summary by Week report (see [page A-68](#)). However, the weeks are displayed across the top of the page.

### Drilldown:

- Double-click an account code and a weekly breakdown of charges by rate code description appears.

### Parameters:

- Invoice Level
- Report Year
- Report Month
- Starting and Ending Account Code

### Report Example

The screenshot shows a web browser window titled 'CIMS Server - Microsoft Internet Explorer'. The address bar contains the URL: <http://www.cimserver.com/reptexec.asp?InvoiceLevel=1&Year=2003&MLastReportingYear=2199&MLastReportingMonth=12&MLastReportingDate=December+2199&Gr>. The page title is 'Account Summary by Week - Wide'. The report content is as follows:

	Charges					MTD
	6/1/2003 6/7/2003	6/8/2003 6/14/2003	6/15/2003 6/21/2003	6/22/2003 6/28/2003	6/29/2003 6/30/2003	
AA - CIMS Lab, Inc. Roseville	20,722.47	16,959.43				37,681.90
BB - CIMS Lab, Inc. Gibbstboro	7,264.82	9,624.88				16,889.70
CC - CIMS Lab, Inc. Laurel	22,449.70	18,031.41				40,481.11
DD - CIMS Lab, Inc. International	2,536.42	4,780.15				7,316.57
EE - CIMS Lab, Inc. Services	2,285.49	3,051.91				5,337.40
<b>Report Total</b>	<b>55,238.90</b>	<b>52,447.68</b>				<b>107,686.58</b>

Figure A-48 • Account Summary by Week–Wide Report Example

## Account Summary YTD Report

**File name:** RYTDC001.rpt

**Stored Procedure:** CIMSSP\_Summary\_Month

This report provides the total monthly and YTD charges by account code, rate group, and rate code description for the parameters selected.

### Drilldown:

- Double-click a month or the charge for a month and a breakdown of charges by rate group appears. Double-click a rate group and a breakdown of charges by rate code description appears.

### Parameters:

- Invoice Level
- Report Year
- Starting and Ending Account Code

### Report Example

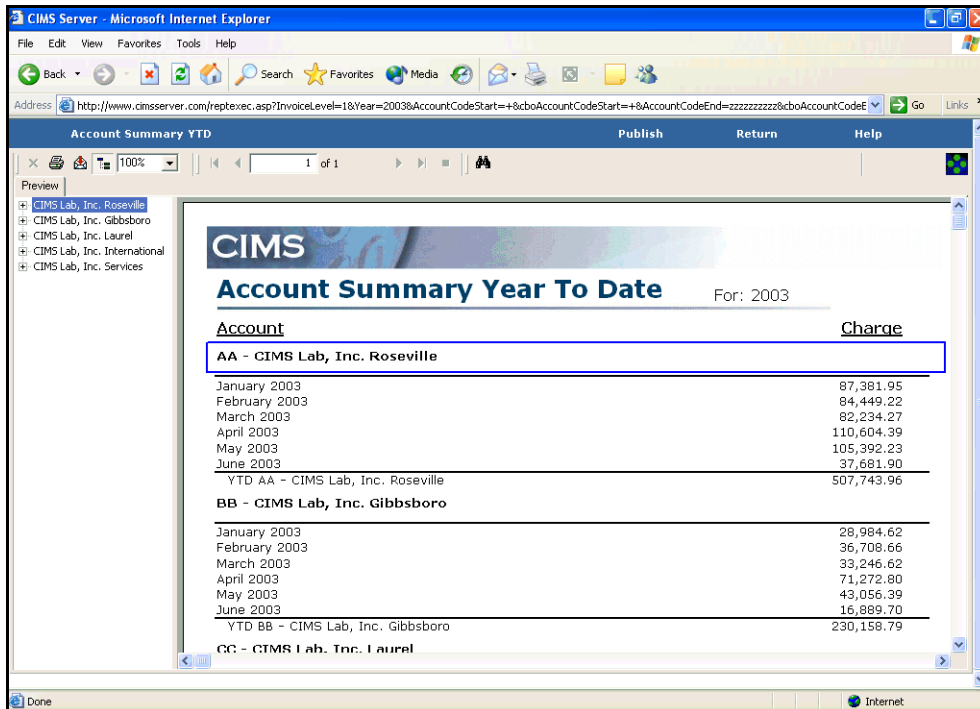


Figure A-49 • Account Summary YTD Report Example

## Account Summary YTD–Wide Report

**File name:** RYTDC002.rpt

**Stored Procedure:** CIMSSP\_Summary\_Month

This report is similar to the Account Summary YTD report (see [page A-70](#)). However, the months are displayed across the top of the page.

**Drilldown:**

- Double-click an account code and a monthly breakdown of charges by rate code description appears.

**Parameters:**

- Invoice Level
- Report Year
- Starting and Ending Account Code

**Report Example**

The screenshot shows a web browser window titled 'CIMS Server - Microsoft Internet Explorer'. The address bar shows a URL from 'www.cimserver.com'. The report title is 'Account Summary YTD - Wide'. The report content is as follows:

Account	Charges by Month						YTD
	January	February	March	April	May	June	
AA - CIMS Lab, Inc. Roseville	87,381.95	84,449.22	82,234.27	110,604.39	105,392.23	37,681.90	507,743.96
BB - CIMS Lab, Inc. Gibbstboro	28,284.63	36,708.66	33,246.62	71,272.80	43,056.39	16,889.20	230,158.79
CC - CIMS Lab, Inc. Laurel	32,868.42	53,335.49	54,213.12	81,399.72	111,072.43	40,481.11	373,370.29
DD - CIMS Lab, Inc. International	11,079.73	4,617.21	3,701.59	7,322.87	18,517.00	7,316.57	52,554.97
EE - CIMS Lab, Inc. Services	6,192.87	7,287.84	6,263.57	11,545.77	9,388.33	5,317.30	46,499.68

**Figure A-50 • Account Summary YTD–Wide Report Example**

## Spreadsheets

This section describes the CIMS Server spreadsheets. When you run a spreadsheet, CIMS Server Web Reporting presents the report data in Microsoft Excel. In addition to viewing the report in the Web browser, you can also save the spreadsheet as an Excel or other file or publish the report for all users. For more information, see [Working with Spreadsheets](#) on page 3-9. You must have Excel installed on the client running the spreadsheet.

### Invoice Spreadsheet

**File name:** SINVC001.rpt

**Stored Procedure:** None

This spreadsheet provides invoice information for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

	A	B	C	D	E	F	G	H	I	J
	AccountName	AccountCode	RateCode	RateDescripti	RateGroup	GroupTitle	StartDate	EndDate	ResourceUnits	RateValue
1	CIMS Lab, Ini AA	2001	OS/390 Jobs	2 OS/390 Batch	2 OS/390 Batch	6/1/2003	6/30/2003	1,452.00	2.50	
2	CIMS Lab, Ini AA	2002	OS/390 Steps	2 OS/390 Batch	2 OS/390 Batch	6/1/2003	6/30/2003	7,135.00	0.50	
3	CIMS Lab, Ini AA	2003	OS/390 Cpu f	2 OS/390 Batch	2 OS/390 Batch	6/1/2003	6/30/2003	314.29	20.00	
4	CIMS Lab, Ini AA	2032	OS/390 Cpu f	2 OS/390 Batch	2 OS/390 Batch	6/1/2003	6/30/2003	3.44	0.00	
5	CIMS Lab, Ini AA	2033	OS/390 Cpu f	2 OS/390 Batch	2 OS/390 Batch	6/1/2003	6/30/2003	357.27	0.00	
6	CIMS Lab, Ini AA	2020	Tso Cpu Minu	3 OS/390 Tso	3 OS/390 Tso	6/1/2003	6/30/2003	9.92	25.00	
7	CIMS Lab, Ini AA	2204	Tso Connect I	3 OS/390 Tso	3 OS/390 Tso	6/1/2003	6/30/2003	18,218.45	0.25	M
8	CIMS Lab, Ini AA	2021	Tso Inputs	3 OS/390 Tso	3 OS/390 Tso	6/1/2003	6/30/2003	29,003.00	2.00	M
9	CIMS Lab, Ini AA	2022	Tso Outputs	3 OS/390 Tso	3 OS/390 Tso	6/1/2003	6/30/2003	30,926.00	1.00	M
10	CIMS Lab, Ini AA	2035	Tso Cpu Minu	3 OS/390 Tso	3 OS/390 Tso	6/1/2003	6/30/2003	0.11	0.00	
11	CIMS Lab, Ini AA	2036	Tso Cpu Minu	3 OS/390 Tso	3 OS/390 Tso	6/1/2003	6/30/2003	10.60	0.00	
12	CIMS Lab, Ini AA	2005	Total SIOs	5 OS/390 Input	5 OS/390 Input	6/1/2003	6/30/2003	26,625,572.00	0.00	M
13	CIMS Lab, Ini AA	2006	Disk SIOs	5 OS/390 Input	5 OS/390 Input	6/1/2003	6/30/2003	16,325,356.00	0.25	M
14	CIMS Lab, Ini AA	2007	Tape SIOs	5 OS/390 Input	5 OS/390 Input	6/1/2003	6/30/2003	10,300,216.00	0.35	M
15	CIMS Lab, Ini AA	2014	Input Records	6 OS/390 Printe	6 OS/390 Printe	6/1/2003	6/30/2003	386,100.00	1.00	M
16	CIMS Lab, Ini AA	2205	Tape Mounts	7 OS/390 Stora	7 OS/390 Stora	6/1/2003	6/30/2003	1,992.00	0.00	
17	CIMS Lab, Ini AA	2206	Disk Data Sef	7 OS/390 Stora	7 OS/390 Stora	6/1/2003	6/30/2003	18,975.00	0.25	M
18	CIMS Lab, Ini AA	2233	DB2 Transact	10 OS/390 DB2	10 OS/390 DB2	6/1/2003	6/30/2003	17.00	0.02	
19	CIMS Lab, Ini AA	2234	DB2 Transact	10 OS/390 DB2	10 OS/390 DB2	6/1/2003	6/30/2003	0.27	0.15	
20	CIMS Lab, Ini AA	LLA101	Unix disk I/O	12 Unix interacti	12 Unix interacti	6/1/2003	6/30/2003	44.38	0.10	
21	CIMS Lab, Ini AA	LLA102	Unix characte	12 Unix interacti	12 Unix interacti	6/1/2003	6/30/2003	17,502.97	0.00	M
22	CIMS Lab, Ini AA	LLA103	Unix image tii	12 Unix interacti	12 Unix interacti	6/1/2003	6/30/2003	174.71	0.09	
23	CIMS Lab, Ini AA	LLA104	Unix connect	12 Unix interacti	12 Unix interacti	6/1/2003	6/30/2003	362.80	0.10	
24	CIMS Lab, Ini AA	LLA105	Unix user CPI	12 Unix interacti	12 Unix interacti	6/1/2003	6/30/2003	18.79	0.01	
25	CIMS Lab, Ini AA	LLA106	Unix system c	12 Unix interacti	12 Unix interacti	6/1/2003	6/30/2003	3.17	0.02	
26	CIMS Lab, Ini AA	LLA107	Unix total CPI	12 Unix interacti	12 Unix interacti	6/1/2003	6/30/2003	21.96	0.03	
27	CIMS Lab, Ini AA	LLA108	Unix memory	12 Unix interacti	12 Unix interacti	6/1/2003	6/30/2003	1,724,530.10	0.00	M
28	CIMS Lab, Ini AA	LLA109	Unix image ci	12 Unix interacti	12 Unix interacti	6/1/2003	6/30/2003	7,260.00	0.02	

Figure A-51 • Invoice Spreadsheet Example

## Run Total Invoice Spreadsheet

File name: SINVC002.rpt

Stored Procedure: None

This spreadsheet provides total invoice information by rate code for the parameters selected.

Drilldown: None

Parameters:

- Starting and Ending Account Code
- From and To Date

Report Example

	A	B	C	D	E	F	G	H	I
	RateCode	RateDescription	RateGroup	GroupTitle	StartDate	EndDate	ResourceUnits	RateValue	Per 100
1	Z001	OS/390 Jobs Started	2 OS/390 Batch		6/1/2003	6/30/2003	2,649.00	2.50	
2	Z002	OS/390 Steps Started	2 OS/390 Batch		6/1/2003	6/30/2003	13,398.00	0.50	
3	Z003	OS/390 Cpu Minutes	2 OS/390 Batch		6/1/2003	6/30/2003	598.22	20.00	
4	Z032	OS/390 Cpu Minutes (Initiators)	2 OS/390 Batch		6/1/2003	6/30/2003	9.05	0.00	
5	Z033	OS/390 Cpu Minutes (All)	2 OS/390 Batch		6/1/2003	6/30/2003	660.28	0.00	
6	Z020	Tso Cpu Minutes	3 OS/390 Tso		6/1/2003	6/30/2003	16.81	25.00	
7	Z204	Tso Connect Minutes	3 OS/390 Tso		6/1/2003	6/30/2003	52,707.13	0.25	
8	Z021	Tso Inputs	3 OS/390 Tso		6/1/2003	6/30/2003	52,912.00	2.00	M
9	Z022	Tso Outputs	3 OS/390 Tso		6/1/2003	6/30/2003	56,396.00	1.00	M
10	Z035	Tso Cpu Minutes (Initiator)	3 OS/390 Tso		6/1/2003	6/30/2003	0.25	0.00	
11	Z036	Tso Cpu Minutes (All)	3 OS/390 Tso		6/1/2003	6/30/2003	18.10	0.00	
12	Z005	Total SIOs	5 OS/390 Input/Output charges		6/1/2003	6/30/2003	49,176,613.00	0.00	M
13	Z006	Disk SIOs	5 OS/390 Input/Output charges		6/1/2003	6/30/2003	33,381,169.00	0.25	M
14	Z007	Tape SIOs	5 OS/390 Input/Output charges		6/1/2003	6/30/2003	15,795,444.00	0.35	M
15	Z014	Input Records	6 OS/390 Printer/Reader		6/1/2003	6/30/2003	429,266.00	1.00	M
16	Z205	Tape Mounts	7 OS/390 Storage		6/1/2003	6/30/2003	2,509.00	0.00	
17	Z206	Disk Data Sets	7 OS/390 Storage		6/1/2003	6/30/2003	47,330.00	0.25	
18	Z233	DB2 Transactions (Records)	10 OS/390 DB2		6/1/2003	6/30/2003	17.00	0.02	
19	Z234	DB2 Transactions Elapsed Minutes	10 OS/390 DB2		6/1/2003	6/30/2003	0.27	0.15	
20	LLA101	Unix disk I/O	12 Unix interactive		6/1/2003	6/30/2003	400.60	0.10	
21	LLA102	Unix character I/O	12 Unix interactive		6/1/2003	6/30/2003	101,519.50	0.00	M
22	LLA103	Unix image time	12 Unix interactive		6/1/2003	6/30/2003	5,296.13	0.09	
23	LLA104	Unix connect time	12 Unix interactive		6/1/2003	6/30/2003	612.98	0.10	
24	LLA105	Unix user CPU	12 Unix interactive		6/1/2003	6/30/2003	90.50	0.01	
25	LLA106	Unix system CPU	12 Unix interactive		6/1/2003	6/30/2003	13.97	0.02	
26	LLA107	Unix total CPU	12 Unix interactive		6/1/2003	6/30/2003	104.46	0.03	
27	LLA108	Unix memory	12 Unix interactive		6/1/2003	6/30/2003	3,532,685.27	0.00	M
28	LLA109	Unix image count	12 Unix interactive		6/1/2003	6/30/2003	11,908.00	0.02	

Figure A-52 • Run Total Invoice Spreadsheet Example

## Invoice by Rate Group Spreadsheet

File name: SINVC003.rpt

Stored Procedure: None

This spreadsheet provides invoice information for the rate codes within a selected rate group for the parameters selected.

Drilldown: None

Parameters:

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Rate Group

Report Example

	A	B	C	D	E	F	G	H	I	J	K
	AccountName	AccountCode	RateCode	RateDescription	RateGroup	GroupTitle	StartDate	EndDate	ResourceUnits	RateValue	Per 100
1	CIMS Lab, InI	BB	LLW101	MS Windows Oracle logins	24 MS Windows		6/1/2003	6/30/2003	26.00	0.80	
2	CIMS Lab, InI	BB	LLW102	MS Windows Oracle session	24 MS Windows		6/1/2003	6/30/2003	153.33	0.25	
3	CIMS Lab, InI	BB	LLW103	MS Windows Oracle connect	24 MS Windows		6/1/2003	6/30/2003	7,997.80	1.00	M
4	CIMS Lab, InI	BB	LLW104	MS Windows Oracle uga mer	24 MS Windows		6/1/2003	6/30/2003	5,358,022.34	0.00	M
5	CIMS Lab, InI	BB	LLW105	MS Windows Oracle pga mer	24 MS Windows		6/1/2003	6/30/2003	67,352,426.64	0.00	M
6	CIMS Lab, InI	BB	LLW108	MS Windows Oracle physical	24 MS Windows		6/1/2003	6/30/2003	26,124.24	0.20	M
7	CIMS Lab, InI	BB	LLW109	MS Windows Oracle physical	24 MS Windows		6/1/2003	6/30/2003	40,118.17	0.80	M
8	CIMS Lab, InI	BB	LLW110	MS Windows Oracle write rei	24 MS Windows		6/1/2003	6/30/2003	6,427,025.70	0.00	M
9	CIMS Lab, InI	BB	LLW112	MS Windows Oracle messagi	24 MS Windows		6/1/2003	6/30/2003	187,653.35	0.06	M
10	CIMS Lab, InI	BB	LLW113	MS Windows Oracle messagi	24 MS Windows		6/1/2003	6/30/2003	187,976.72	0.00	
11											
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Figure A-53 • Invoice by Rate Group Spreadsheet Example

## Invoice by Account Code Spreadsheet

File name: SINVC004.rpt

Stored Procedure: CIMSSP\_Summary

This spreadsheet provides invoice information by account code for the parameters selected.

Drilldown: None

Parameters:

- Invoice Level
- Starting and Ending Account Code
- From and To Date

Report Example

	A	B	C	D	E	J	K	L	M	N	O
	AccountCode	Division	Department	User	Other	RateCode	RateDescription	RateGroup	GroupTitle	StartDate	EndDate
1	AAAAA	IAAA	AAAA	KK	IBMUSER	Z233	DB2 Transact	10	OS/390 DB2	6/1/2003	6/30/2
2	AAAAA	IAAA	AAAA	KK	IBMUSER	Z234	DB2 Transact	10	OS/390 DB2	6/1/2003	6/30/2
3	AAAAA	IAAA	AAAA	KK	hobbes /	LLR101	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
4	AAAAA	IAAA	AAAA	KK	hobbes /	LLR102	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
5	AAAAA	IAAA	AAAA	KK	hobbes /	LLR103	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
6	AAAAA	IAAA	AAAA	KK	hobbes /home	LLR101	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
7	AAAAA	IAAA	AAAA	KK	hobbes /home	LLR102	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
8	AAAAA	IAAA	AAAA	KK	hobbes /home	LLR103	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
9	AAAAA	IAAA	AAAA	KK	hobbes /opt	LLR101	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
10	AAAAA	IAAA	AAAA	KK	hobbes /opt	LLR102	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
11	AAAAA	IAAA	AAAA	KK	hobbes /opt	LLR103	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
12	AAAAA	IAAA	AAAA	KK	hobbes /tmp	LLR101	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
13	AAAAA	IAAA	AAAA	KK	hobbes /tmp	LLR102	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
14	AAAAA	IAAA	AAAA	KK	hobbes /tmp	LLR103	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
15	AAAAA	IAAA	AAAA	KK	hobbes /usr	LLR101	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
16	AAAAA	IAAA	AAAA	KK	hobbes /usr	LLR102	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
17	AAAAA	IAAA	AAAA	KK	hobbes /usr	LLR103	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
18	AAAAA	IAAA	AAAA	KK	hobbes /var	LLR101	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
19	AAAAA	IAAA	AAAA	KK	hobbes /var	LLR102	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
20	AAAAA	IAAA	AAAA	KK	hobbes /var	LLR103	Unix fileyste	19	Unix fileyste	6/1/2003	6/30/2
21	AAAAA	IAAA	AAAA	KK	hobbes adm	LLD101	Unix Block we	15	Unix storage	6/1/2003	6/30/2
22	AAAAA	IAAA	AAAA	KK	hobbes arsap	LLD101	Unix Block we	15	Unix storage	6/1/2003	6/30/2
23	AAAAA	IAAA	AAAA	KK	hobbes bclayton	LLD101	Unix Block we	15	Unix storage	6/1/2003	6/30/2
24	AAAAA	IAAA	AAAA	KK	hobbes bin	LLD101	Unix Block we	15	Unix storage	6/1/2003	6/30/2
25	AAAAA	IAAA	AAAA	KK	hobbes daemon	LLD101	Unix Block we	15	Unix storage	6/1/2003	6/30/2
26	AAAAA	IAAA	AAAA	KK	hobbes george	LLA102	Unix characte	12	Unix interact	6/1/2003	6/30/2
27	AAAAA	IAAA	AAAA	KK	hobbes george	LLA103	Unix image ti	12	Unix interact	6/1/2003	6/30/2
28	AAAAA	IAAA	AAAA	KK	hobbes george	LLA104	Unix connect	12	Unix interact	6/1/2003	6/30/2
29	AAAAA	IAAA	AAAA	KK	hobbes george	LLA104	Unix connect	12	Unix interact	6/1/2003	6/30/2

Figure A-54 • Invoice by Account Code Spreadsheet Example

## Proration by Total Amount Spreadsheet

**File name:** SPERX001.rpt

**Stored Procedure:** CIMSSP\_Summary

This spreadsheet enables you to prorate an amount that you enter as a parameter across account codes. The percentage prorated to each account is based on the total charge incurred by the account. That is, the higher the total charge for an account, the higher the percentage of the prorate amount that is assigned to that account.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Prorate
- Starting and Ending Account Code
- From and To Date

### Report Example

In the following example, \$100,000 is prorated across accounts for the parameters selected.

Account Code	Account Name	Charges	Percent	Prorated Amount
AA	CIMS Lab, Inc. Roseville	88,224.31	35.77%	35,765.95
BB	CIMS Lab, Inc. Gibbsboro	43,922.41	17.81%	17,806.05
CC	CIMS Lab, Inc. Laurel	82,184.32	33.32%	33,317.35
DD	CIMS Lab, Inc. International	18,038.30	7.31%	7,312.69
EE	CIMS Lab, Inc. Services	14,301.89	5.80%	5,797.96
Run Total		246,671.23	100%	100,000.00

Figure A-55 • Proration by Total Amount Spreadsheet Example



## Proration by Rate Code Spreadsheet

**File name:** SPERX002.rpt

**Stored Procedure:** CIMSSP\_Summary\_RateCode

This spreadsheet is similar to Proration by Total Amount report (see [page A-77](#)) except that the prorate amount is applied by account code to the rate code that you select.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Prorate
- Starting and Ending Account Code
- From and To Date
- Rate Code

### Report Example

In the following example, \$50,000 is prorated across accounts charged for the rate code Z006 for the parameters selected.

Account Code	Account Name	Charges	Percent	Prorated Amount
AA	CIMS Lab, Inc. Roseville	7,344.72	43.36%	21,678.91
BB	CIMS Lab, Inc. Gibbsboro	975.22	5.76%	2,878.49
CC	CIMS Lab, Inc. Laurel	5,919.47	34.94%	17,472.10
DD	CIMS Lab, Inc. International	2,700.33	15.94%	7,970.38
EE	CIMS Lab, Inc. Services	0.04	0.00%	0.12
<b>Run Total</b>		<b>16,939.78</b>	<b>100%</b>	<b>50,000.00</b>

**Figure A-56 • Proration by Rate Code Spreadsheet Example**

## Proration by Rate Group Spreadsheet

**File name:** SPERX003.rpt

**Stored Procedure:** CIMSSP\_Summary\_RateGroup

This spreadsheet is similar to Proration by Total Amount report (see [page A-77](#)) except that the prorate amount is applied by account code to the rate group that you select.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Prorate
- Starting and Ending Account Code
- From and To Date
- Rate Group

### Report Example

In the following example, \$30,000 is prorated across accounts charged for rate codes belonging to the rate group OS/390 Input/Output charges for the parameters selected.

Account Code	Account Name	Charges	Percent	Prorated Amount
AA	CIMS Lab, Inc. Roseville	14,179.56	50.97%	15,290.46
BB	CIMS Lab, Inc. Gibbsboro	2,669.80	9.60%	2,878.97
CC	CIMS Lab, Inc. Laurel	8,215.39	29.53%	8,859.02
DD	CIMS Lab, Inc. International	2,755.62	9.91%	2,971.51
EE	CIMS Lab, Inc. Services	0.04	0.00%	0.04
<b>Run Total</b>		<b>27,820.41</b>	<b>100%</b>	<b>30,000.00</b>

Figure A-57 • Proration by Rate Group Spreadsheet Example

## Top 10 Accounts for Rate Spreadsheet

**File name:** STOPC004.rpt

**Stored Procedure:** CIMSSP\_Summary\_RateCode

This spreadsheet provides the account codes with the highest usage of a specified rate code for the parameters selected. For example, if you type 3 as the TopN parameter, the three account codes with the highest rate code usage appear (see example [Figure A-58](#)). If you leave the TopN parameter blank, the account codes with the ten highest rate code usage appear.

**Drilldown:** None

**Parameters:**

- TopN
- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Rate Code

**Report Example**

Account	Units	Rate	Per 1000	Charge	%
AA-CIMS Lab, Inc. Roseville	16,564,291	0.25	/M	4,141.00	48.48%
CC-CIMS Lab, Inc. Laurel	13,163,149	0.25	/M	3,290.79	38.53%
DD-CIMS Lab, Inc. International	2,495,674	0.25	/M	623.94	7.30%
<b>Run Total</b>	<b>34,167,178</b>			<b>8,541.66</b>	

**Figure A-58 • Top 10 Accounts for Rate Spreadsheet Example**

## Account Summary Week Spreadsheet

File name: SWEKC001.rpt

Stored Procedure: None

This spreadsheet provides account summary weekly information by account code for the parameters selected.

Drilldown: None

Parameters:

- Invoice Level
- Report Year
- Report Month
- Starting and Ending Account Code

Report Example

AccountCode	AccountNameRateDescripti	6/1/2003 - 6/6/8/2003	6/6/8/2003 - 6/6/15/2003	6/6/15/2003 - 6/6/22/2003	6/6/22/2003 - 6/6/29/2003	MTD
AA	CIMS Lab, IniOS/390 Jobs Started	1,710.00	1,732.50	187.50		3,630.00
AA	CIMS Lab, IniOS/390 Steps Started	1,703.00	1,750.50	114.00		3,567.50
AA	CIMS Lab, IniOS/390 Cpu Minutes	1,336.29	4,642.60	307.15		6,286.04
AA	CIMS Lab, IniOS/390 Cpu Minutes (Initial	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniOS/390 Cpu Minutes (All)	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniTso Cpu Minutes	123.83	100.34	23.75		247.92
AA	CIMS Lab, IniTso Connect Minutes	2,553.55	1,611.55	389.55		4,554.65
AA	CIMS Lab, IniTso Inputs	31.02	20.01	6.98		58.01
AA	CIMS Lab, IniTso Outputs	16.39	10.60	3.94		30.93
AA	CIMS Lab, IniTso Cpu Minutes (Initiator)	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniTso Cpu Minutes (All)	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniTotal SIOs	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniDisk SIOs	1,938.87	1,823.76	318.66		4,081.29
AA	CIMS Lab, IniTape SIOs	1,626.29	1,817.30	161.42		3,605.01
AA	CIMS Lab, IniInput Records	288.81	82.62	14.62		386.05
AA	CIMS Lab, IniTape Mounts	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniDisk Data Sets	2,258.75	2,178.00	307.00		4,743.75
AA	CIMS Lab, IniDB2 Transactions (Records)		0.26			0.26
AA	CIMS Lab, IniDB2 Transaction Elapsed Minutes		0.04			0.04
AA	CIMS Lab, IniMS Windows Disk Size in MI	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniMS Windows Number of File	0.02	0.07	0.01		0.10
AA	CIMS Lab, IniMS Exchange Bytes Sent	12.46	5.49	0.01		17.96
AA	CIMS Lab, IniMS Exchange Emails Sent	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniMS Exchange Bytes Receive	433.63	209.07	1.37		644.07
AA	CIMS Lab, IniMS Exchange Emails Receive	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniMS Windows Elapsed Time in s	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniMS Windows CPU Time in s	0.00	0.00	0.00		0.00
AA	CIMS Lab, IniMS Windows Kernel CPU Tim	0.00	0.00	0.00		0.00

Figure A-59 • Account Summary Week Spreadsheet Example

## Account Summary YTD Spreadsheet

**File name:** SYTDC001.rpt

**Stored Procedure:** None

This spreadsheet provides account summary YTD information by account code for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Report Year
- Starting and Ending Account Code

**Report Example**

Accountcode	AccountName	January	February	March	April	May	June	July	August	September
AA	CIMS Lab, Inc. Roseville	87,381.95	84,449.22	82,234.27	110,604.39	105,392.23	45,536.00			
BB	CIMS Lab, Inc. Gibbsboro	28,984.62	36,708.66	33,246.62	71,272.80	43,056.39	20,785.13			
CC	CIMS Lab, Inc. Laurel	32,868.42	53,335.49	54,213.12	81,399.72	111,072.43	50,272.32			
DD	CIMS Lab, Inc. International	11,079.73	4,617.21	3,701.59	7,322.87	18,517.00	9,486.55			
EE	CIMS Lab, Inc. Services	6,192.87	7,787.84	6,263.57	11,549.77	9,388.33	10,187.56			

**Figure A-60 • Account Summary YTD Spreadsheet Example**

## Account Summary YTD by Rate Spreadsheet

File name: SYTDC002.rpt

Stored Procedure: None

This spreadsheet provides account summary YTD information by rate code description for the parameters selected.

Drilldown: None

Parameters:

- Invoice Level
- Report Year
- Starting and Ending Account Code

Report Example

AccountCode	AccountName	RateDescription	Year	January	February	March	April	May	June
AA	CIMS Lab, Inc.	OS/390 Jobs Started	2003	5,307.50	7,787.50	5,122.50	7,357.50	9,247.50	3,630.00
AA	CIMS Lab, Inc.	OS/390 Steps Started	2003	4,348.50	6,503.00	4,788.50	6,428.00	7,711.50	3,567.50
AA	CIMS Lab, Inc.	OS/390 Cpu Minutes	2003	14,757.02	9,789.66	8,801.58	15,661.30	11,627.59	6,286.04
AA	CIMS Lab, Inc.	OS/390 Cpu Minutes (Initiators)	2003	0.00	0.00	0.00	0.00	0.00	0.00
AA	CIMS Lab, Inc.	OS/390 Cpu Minutes (All)	2003	0.00	0.00	0.00	0.00	0.00	0.00
AA	CIMS Lab, Inc.	Tso Cpu Minutes	2003	251.45	247.29	153.03	344.31	456.26	247.92
AA	CIMS Lab, Inc.	Tso Connect Minutes	2003	7,831.06	7,037.75	6,325.41	15,716.42	18,821.58	4,554.65
AA	CIMS Lab, Inc.	Tso Inputs	2003	63.99	66.21	32.48	76.38	130.50	58.01
AA	CIMS Lab, Inc.	Tso Outputs	2003	39.98	42.02	23.79	48.16	78.78	30.93
AA	CIMS Lab, Inc.	Tso Cpu Minutes (Tob)	2003	0.00					
AA	CIMS Lab, Inc.	Tso Cpu Minutes (Initiator)	2003	0.00	0.00	0.00	0.00	0.00	0.00
AA	CIMS Lab, Inc.	Tso Cpu Minutes (All)	2003	0.00	0.00	0.00	0.00	0.00	0.00
AA	CIMS Lab, Inc.	Total SIOs	2003	0.00	0.00	0.00	0.00	0.00	0.00
AA	CIMS Lab, Inc.	Disk SIOs	2003	18,905.60	7,202.18	18,071.58	11,849.47	6,138.79	4,081.29
AA	CIMS Lab, Inc.	Tape SIOs	2003	5,470.00	4,928.77	5,590.77	13,405.29	6,267.71	3,605.01
AA	CIMS Lab, Inc.	3390 SIO's	2003	0.00					
AA	CIMS Lab, Inc.	3380 SIO's	2003	0.00					
AA	CIMS Lab, Inc.	3375 SIO's	2003	0.00					
AA	CIMS Lab, Inc.	3480 SIO's	2003	0.00					
AA	CIMS Lab, Inc.	3420 SIO's	2003	0.00					
AA	CIMS Lab, Inc.	Virtual SIO's	2003	0.00					
AA	CIMS Lab, Inc.	Input Records	2003	660.32	696.66	597.39	621.03	1,798.41	386.05
AA	CIMS Lab, Inc.	Tape Mounts	2003	0.00	0.00	0.00	0.00	0.00	0.00
AA	CIMS Lab, Inc.	Disk Data Sets	2003	6,434.25	8,769.00	6,058.25	8,767.50	10,739.75	4,743.75
AA	CIMS Lab, Inc.	DB2 Transactions (Records)	2003	0.52	0.52	0.26	0.78	0.52	0.26
AA	CIMS Lab, Inc.	DB2 Transaction Elapsed Minutes	2003	0.12	0.09	0.02	0.25	0.05	0.04
AA	CIMS Lab, Inc.	MS Windows Disk Size in MB	2003	0.00	0.00	0.00	0.00	0.00	0.00
AA	CIMS Lab, Inc.	MS Windows Number of Files	2003	0.08	0.08	0.12	0.14	0.10	0.10

Figure A-61 • Account Summary YTD by Rate Spreadsheet Example

## Account Summary YTD Cost by Rate Group Spreadsheet

File name: SYTDC003.rpt

Stored Procedure: None

This spreadsheet provides account summary YTD information by rate code description for the rate group selected for the parameters selected.

Drilldown: None

Parameters:

- Invoice Level
- Report Year
- Starting and Ending Account Code
- Rate Group

Report Example

AccountCode	AccountName	RateDescription	Year	January	February	March	April	May	June
AA	CIMS Lab, Inc. Roseville	MS Exchange Bytes Sent	2003	3.10	6.11	4.04	7.42	24.40	18
AA	CIMS Lab, Inc. Roseville	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	0
AA	CIMS Lab, Inc. Roseville	MS Exchange Bytes Received	2003	342.53	505.63	423.82	583.32	1,403.41	666
AA	CIMS Lab, Inc. Roseville	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	0
BB	CIMS Lab, Inc. Gibbsboro	MS Exchange Bytes Sent	2003	0.01	0.02	0.00	0.22	4.69	1
BB	CIMS Lab, Inc. Gibbsboro	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	0
BB	CIMS Lab, Inc. Gibbsboro	MS Exchange Bytes Received	2003	68.00	105.40	47.73	58.55	158.94	121
BB	CIMS Lab, Inc. Gibbsboro	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	0
CC	CIMS Lab, Inc. Laurel	MS Exchange Bytes Sent	2003	0.00	0.12	0.00	0.00	0.78	0
CC	CIMS Lab, Inc. Laurel	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	0
CC	CIMS Lab, Inc. Laurel	MS Exchange Bytes Received	2003	49.21	106.21	86.03	89.18	122.37	55
CC	CIMS Lab, Inc. Laurel	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	0
DD	CIMS Lab, Inc. International	MS Exchange Bytes Sent	2003	0.03	1.22	0.01	0.73	0.61	0
DD	CIMS Lab, Inc. International	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	0
DD	CIMS Lab, Inc. International	MS Exchange Bytes Received	2003	93.03	141.40	96.94	175.70	60.59	28
DD	CIMS Lab, Inc. International	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	0
EE	CIMS Lab, Inc. Services	MS Exchange Bytes Sent	2003	0.00	0.00	0.00	0.25	7.74	3
EE	CIMS Lab, Inc. Services	MS Exchange Emails Sent	2003	0.00	0.00	0.00	0.00	0.00	0
EE	CIMS Lab, Inc. Services	MS Exchange Bytes Received	2003	0.00	0.00	0.00	2.44	373.72	158
EE	CIMS Lab, Inc. Services	MS Exchange Emails Received	2003	0.00	0.00	0.00	0.00	0.00	0

Figure A-62 • Account Summary YTD Cost by Rate Group Spreadsheet Example

## Crosstab Reports

This section describes the CIMS Server crosstab reports. You can run a crosstab report as a report or a spreadsheet. The examples in this section show the report format.

### Daily Crosstab—Charges

**File name:** XDAYC001.rpt

**Stored procedure:** CIMSSP\_Summary\_Day

This report provides total daily charges by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

		Total All Days	6/1/2003	6/2/2003	6/3/2003
<b>Total All Accounts</b>		107,686.58	5,571.68	7,255.24	10,586.16
<b>AA - CIMS Lab, Inc. Roseville</b>	<b>Total for Account</b>	37,681.90	1,795.19	3,499.16	2,093.37
	001 - OS/390 Jobs Started	3,015.00	47.50	335.00	65.00
	003 - OS/390 Steps Started	2,884.50	39.00	321.00	38.00
	005 - OS/390 Cpu Minutes	5,584.72	44.06	287.79	33.25
	013 - Tso Cpu Minutes	202.07	19.76	2.17	4.92
	015 - Tso Connect Minutes	3,814.21	284.89	277.83	693.01
	016 - Tso Inputs	42.95	7.83	0.26	0.07
	018 - Tso Outputs	22.71	4.08	0.14	0.04
	032 - Disk SIOs	3,354.28	31.88	324.12	34.11
	034 - Tape SIOs	3,071.81	62.60	597.53	273.68
	070 - Input Records	360.94	15.00	16.58	0.15

Figure A-63 • Daily Crosstab—Charges Report Example



## Daily Crosstab—Usage

**File name:** XDAYR001.rpt

**Stored procedure:** CIMSSP\_Summary\_Day

This report provides total daily resource usage by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

	Total All Days	6/1/2003	6/2/2003	6/3/2003
<b>AA - CIMS Lab, Inc. Roseville</b>				
001 - OS/390 Jobs Started	1,206	19	134	
003 - OS/390 Steps Started	5,769	78	642	
005 - OS/390 Cpu Minutes	279.23	2.20	14.39	1.0
007 - OS/390 Cpu Minutes (Initiators)	2.72	0.05	0.28	0.0
008 - OS/390 Cpu Minutes (All)	320.00	2.35	15.44	1.0
013 - Tso Cpu Minutes	8.08	0.79	0.09	0.0
015 - Tso Connect Minutes	15,256.70	1,139.57	1,111.33	2,772.0
016 - Tso Inputs	21,477	3,918	131	
018 - Tso Outputs	22,709	4,079	139	
020 - Tso Cpu Minutes (Initiator)	0.08	0.00	0.00	0.0
021 - Tso Cpu Minutes (All)	8.61	0.85	0.09	0.0

**Figure A-64 • Daily Crosstab—Usage Report Example**

## Detail by Identifier Crosstab

**File name:** XDETR001.rpt

**Stored procedure:** CIMSSP\_Ident\_Crosstab

This report provides total charges by rate code for a selected identifier value or values for the date range selected.

**Drilldown:** None

**Parameters:**

- From and To Date
- Identifier
- Start and End Value

### Report Example

In this example, the identifier selected is Exchange User and the identifier start and end values are both deborah.

The screenshot shows a web browser window with the following content:

**CIMS**  
**Detail by Identifier Crosstab**  
 Date Range: 6/1/2003 to 6/30/2003  
 Exchange User From deborah to deborah

	600-MS Windows SQL Server Records	601-MS Windows SQL Server Duration (seconds)	603-MS Windows SQL Server Reads	640-MS Exchange Bytes Sent	641-MS Exchange Emails Sent	642-MS Exchange Bytes Received
<b>Total</b>	1.00	20.56	72.00	773,947.00	28.00	4,994,659
deborah	1.00	20.56	72.00	773,947.00	28.00	4,994,659

Figure A-65 • Detail by Identifier Crosstab Report Example

## Detail by Identifier by Date Crosstab

**File name:** XDETR002.rpt

**Stored procedure:** CIMSSP\_Ident\_Crosstab\_StartDate

This crosstab report provides total and total daily charges by rate code for a selected identifier value or values for the date range selected.

**Drilldown:** None

**Parameters:**

- From and To Date
- Identifier
- Start and End Value

### Report Example

In this example, the identifier selected is Exchange User and the identifier start and end values are both deborah.

**CIMS**  
**Detail by Identifier by Date Crosstab**  
 Date Range: 6/1/2003 to 6/30/2003  
 Exchange User From deborah to deborah

		600-MS Windows SQL Server Records	601-MS Windows SQL Server Duration (seconds)	603-MS Windows SQL Server Reads	640-MS Exchange Bytes Sent
<b>Total</b>		1.00	20.56	72.00	773,947.00
deborah	<b>Total</b>	1.00	20.56	72.00	773,947.00
	6/2/2003	0.00	0.00	0.00	0.00
	6/3/2003	0.00	0.00	0.00	65,164.00
	6/4/2003	0.00	0.00	0.00	3,485.00
	6/5/2003	0.00	0.00	0.00	0.00
	6/6/2003	0.00	0.00	0.00	62,816.00
	6/9/2003	0.00	0.00	0.00	0.00
	6/10/2003	0.00	0.00	0.00	65,609.00

Figure A-66 • Detail by Identifier by Date Crosstab Report Example

## Monthly Crosstab—Charges

**File name:** XMONC001.rpt

**Stored procedure:** CIMSSP\_Summary\_Day

This report provides total monthly charges by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

### Report Example

		Total All Months	06/2003
<b>Total All Accounts</b>		<b>136,267.56</b>	<b>136,267.56</b>
<b>AA - CIMS Lab, Inc. Roseville</b>	<b>Total for Account</b>	<b>45,536.00</b>	<b>45,536.00</b>
	001 - OS/390 Jobs Started	3,630.00	3,630.00
	003 - OS/390 Steps Started	3,567.50	3,567.50
	005 - OS/390 Cpu Minutes	6,286.04	6,286.04
	013 - Tso Cpu Minutes	247.92	247.92
	015 - Tso Connect Minutes	4,554.65	4,554.65
	016 - Tso Inputs	58.01	58.01
	018 - Tso Outputs	30.93	30.93
	032 - Disk SIOs	4,081.29	4,081.29
	034 - Tape SIOs	3,605.01	3,605.01
	070 - Input Records	386.05	386.05

Figure A-67 • Monthly Crosstab—Charges Report Example

## Monthly Crosstab–Usage

**File name:** XMONR001.rpt

**Stored procedure:** CIMSSP\_Summary\_Day

This report provides total monthly resource usage by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

	Total All Months	06/2003
<b>AA - CIMS Lab, Inc. Roseville</b>		
001 - OS/390 Jobs Started	1,452	1,452
003 - OS/390 Steps Started	7,135	7,135
005 - OS/390 Cpu Minutes	314.29	314.29
007 - OS/390 Cpu Minutes (Initiators)	3.44	3.44
008 - OS/390 Cpu Minutes (All)	357.27	357.27
013 - Tso Cpu Minutes	9.92	9.92
015 - Tso Connect Minutes	18,218.45	18,218.45
016 - Tso Inputs	29,003	29,003
018 - Tso Outputs	30,926	30,926
020 - Tso Cpu Minutes (Initiator)	0.11	0.11
021 - Tso Cpu Minutes (All)	10.60	10.60

**Figure A-68 • Monthly Crosstab–Usage Report Example**

## Summary Crosstab—Charges

**File name:** XSUMC001.rpt

**Stored procedure:** CIMSSP\_Summary

This report provides total charges by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

	OS/390 Batch charges			
	001 - OS/390 Jobs Started	003 - OS/390 Steps Started	005 - OS/390 Cpu Minutes	007 - OS/390 Cpu Minutes (Initiators)
AA - CIMS Lab, Inc. Roseville	3,630.00	3,567.50	6,286.04	0.00
BB - CIMS Lab, Inc. Gibbsboro	1,795.00	700.00	2,187.76	0.00
CC - CIMS Lab, Inc. Laurel	745.00	1,085.50	3,109.22	0.00
DD - CIMS Lab, Inc. International	285.00	1,337.50	381.43	0.00
EE - CIMS Lab, Inc. Services	167.50	8.50	0.24	0.00
<b>Total All Accounts</b>	<b>6,622.50</b>	<b>6,699.00</b>	<b>11,964.69</b>	<b>0.00</b>

Figure A-69 • Summary Crosstab—Charges Report Example

## Summary by Rate Group Crosstab—Charges

**File name:** XSUMC002.rpt

**Stored procedure:** CIMSSP\_Summary\_RateGroup

This report provides total charges by account code and rate code description for the rate codes within a selected rate group for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Rate Group

**Report Example**

The screenshot shows a Microsoft Internet Explorer browser window displaying a report titled "Summary By Rate Group Xtab - Charges" for the period "From 6/1/2003 to 6/30/2003". The report is categorized as "OS/390 Batch charges". The data is presented in a table with the following structure:

	001 - OS/390 Jobs Started	003 - OS/390 Steps Started	005 - OS/390 Cpu Minutes	007 - OS/390 Cpu Minutes (Initiators)
AA - CIMS Lab, Inc. Roseville	3,630.00	3,567.50	6,286.04	0.00
BB - CIMS Lab, Inc. Gibbstoro	1,795.00	700.00	2,187.76	0.00
CC - CIMS Lab, Inc. Laurel	745.00	1,085.50	3,109.22	0.00
DD - CIMS Lab, Inc. International	285.00	1,337.50	381.43	0.00
EE - CIMS Lab, Inc. Services	167.50	8.50	0.24	0.00
<b>Total All Accounts</b>	<b>6,622.50</b>	<b>6,699.00</b>	<b>11,964.69</b>	<b>0.00</b>

**Figure A-70 • Summary by Rate Group Crosstab—Charges Report Example**

## Summary Crosstab—Usage

**File name:** XSUMR001.rpt

**Stored procedure:** CIMSSP\_Summary

This report provides total resource usage by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

### Report Example

	001 - 05/390 Jobs Started	003 - 05/390 Steps Started	005 - 05/390 Cpu Minutes	007 - 05/390 Cpu Minutes (Initiators)
AA - CIMS Lab, Inc. Roseville	1,452	7,135	314.29	3.44
BB - CIMS Lab, Inc. Gibbsboro	718	1,400	109.38	0.96
CC - CIMS Lab, Inc. Laurel	298	2,171	155.46	1.41
DD - CIMS Lab, Inc. International	114	2,675	19.07	3.23
EE - CIMS Lab, Inc. Services	67	17	0.01	0.01
<b>Total All Accounts</b>	<b>2,649</b>	<b>13,398</b>	<b>598.22</b>	<b>9.05</b>

Figure A-71 • Summary Crosstab—Usage Report Example



## Summary by Rate Group Crosstab–Usage

**File name:** XSUMR002.rpt

**Stored procedure:** CIMSSP\_Summary\_RateGroup

This report provides total resource usage by account code and rate code description for the rate codes within a selected rate group for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Rate Group

**Report Example**

The screenshot shows a web browser window with the following details:

- Browser: Microsoft Internet Explorer
- Address: <http://www.cimserver.com/reptexec.asp?InvoiceLevel=1&AccountCodeStart=+&cbAccountCodeStart=+&AccountCodeEnd=22222222&cbAccountCodeEnd=22222222>
- Report Title: Summary Crosstab 2 - Usage
- Report Content:
 

	001 - OS/390 Jobs Started	003 - OS/390 Steps Started	005 - OS/390 Cpu Minutes	007 - OS/390 Cpu Minutes (Initiators)
AA - CIMS Lab, Inc. Roseville	1,452	7,135	314.29	3.44
BB - CIMS Lab, Inc. Gibbsboro	718	1,400	109.38	0.96
CC - CIMS Lab, Inc. Laurel	298	2,171	155.46	1.41
DD - CIMS Lab, Inc. International	114	2,675	19.07	3.23
EE - CIMS Lab, Inc. Services	67	17	0.01	0.01
<b>Total All Accounts</b>	<b>2,649</b>	<b>13,398</b>	<b>598.22</b>	<b>9.05</b>

Figure A-72 • Summary by Rate Group Crosstab–Usage Report Example

## Weekly Crosstab—Charges

**File name:** XWEKC001.rpt

**Stored procedure:** CIMSSP\_Summary\_Day

This report provides total weekly charges by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

		Total All Weeks	6/1/2003	6/8/2003	6/15/2003
<b>Total All Accounts</b>		136,267.56	55,238.90	72,029.64	8,999.02
<b>AA - CIMS Lab, Inc. Roseville</b>	<b>Total for Account</b>	45,536.00	20,722.47	22,149.14	2,664.39
	001 - OS/390 Jobs Started	3,630.00	1,710.00	1,732.50	187.50
	003 - OS/390 Steps Started	3,567.50	1,703.00	1,750.50	114.00
	005 - OS/390 Cpu Minutes	6,286.04	1,336.29	4,642.60	307.15
	013 - Tso Cpu Minutes	247.92	123.83	100.34	23.75
	015 - Tso Connect Minutes	4,554.65	2,553.55	1,611.55	389.55
	016 - Tso Inputs	58.01	31.02	20.01	6.98
	018 - Tso Outputs	30.93	16.39	10.60	3.94
	032 - Disk SIOs	4,081.29	1,938.87	1,823.76	318.66
	034 - Tape SIOs	3,605.01	1,626.29	1,817.30	161.42
	070 - Input Records	386.05	288.81	82.62	14.62

**Figure A-73 • Weekly Crosstab—Charges Report Example**

## Weekly Crosstab–Usage

**File name:** XWEKR001.rpt

**Stored procedure:** CIMSSP\_Summary\_Day

This report provides total weekly resource usage by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date

**Report Example**

	Total All Weeks	6/1/2003	6/8/2003	6/15/2003
<b>AAAAAA - Roseville - CIMS Lab Administration</b>				
001 - OS/390 Jobs Started	2,037	527	474	41
003 - OS/390 Steps Started	11,769	3,060	3,151	2,151
005 - OS/390 Cpu Minutes	235.50	57.56	64.05	39.21
007 - OS/390 Cpu Minutes (Initiators)	5.45	1.42	1.48	0.91
008 - OS/390 Cpu Minutes (All)	254.29	62.48	68.96	42.61
013 - Tso Cpu Minutes	1.18	0.47	0.04	0.21
015 - Tso Connect Minutes	8,779.67	2,854.19	225.67	1,963.31
016 - Tso Inputs	1,423	302	22	51
018 - Tso Outputs	1,543	330	26	541
020 - Tso Cpu Minutes (Initiator)	0.04	0.01	0.00	0.01
021 - Tso Cpu Minutes (All)	1.28	0.50	0.04	0.31

**Figure A-74 • Weekly Crosstab–Usage Report Example**

## Templates

This section describes CIMS Server report templates. These templates are launched when you create a report in CIMS Server Web Reporting (see *Creating and Running CIMS Web User Created Reports* on page 2-10). Templates can be customized, but custom templates must be stored in the same directory as the standard templates. If CIMS Server is installed in the default path, the location is C:\Program Files\CIMSLab\Server\Reports\Standard\Templates. Please consult CIMS Lab before you customize templates (see *Contacting Technical Support* on page 6-5).

### Report Both Template

**File name:** RTMPB001.rpt

**Stored procedure:** CIMSSP\_Summary

This template produces Both reports that show resource usage and charges by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Four rate codes (selected when report was created)
- Four decimal place options (selected when report was created)

## Report Examples

Figure A-75 shows the creation of a Both report called Job Report. Figure A-76 shows the resulting report that has been run from the Reports menu.

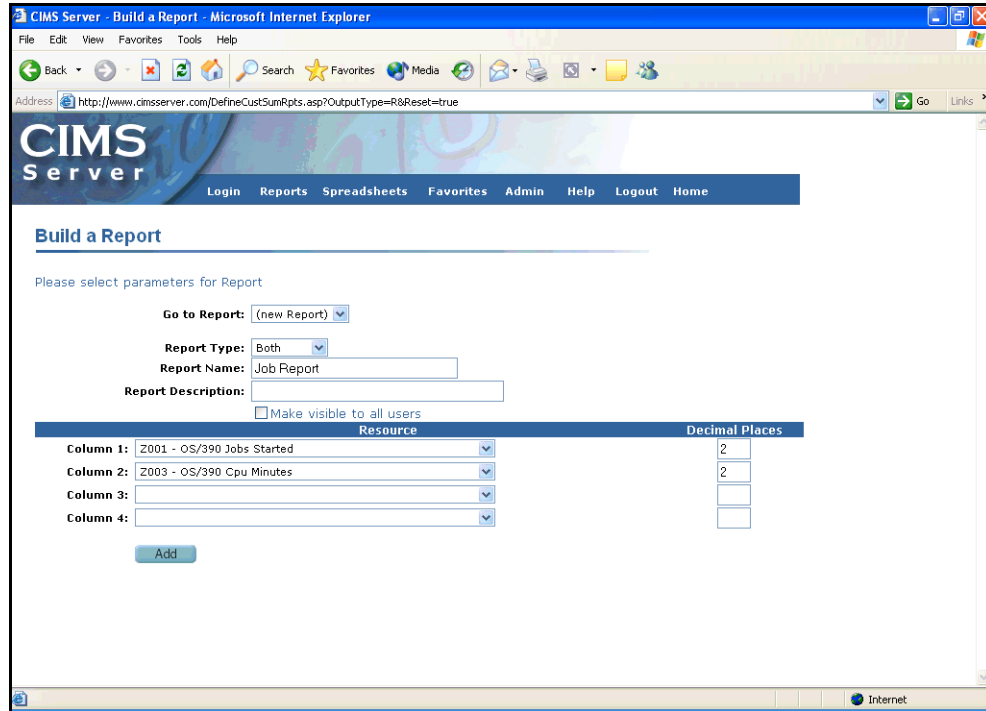


Figure A-75 • Creating a Report Example

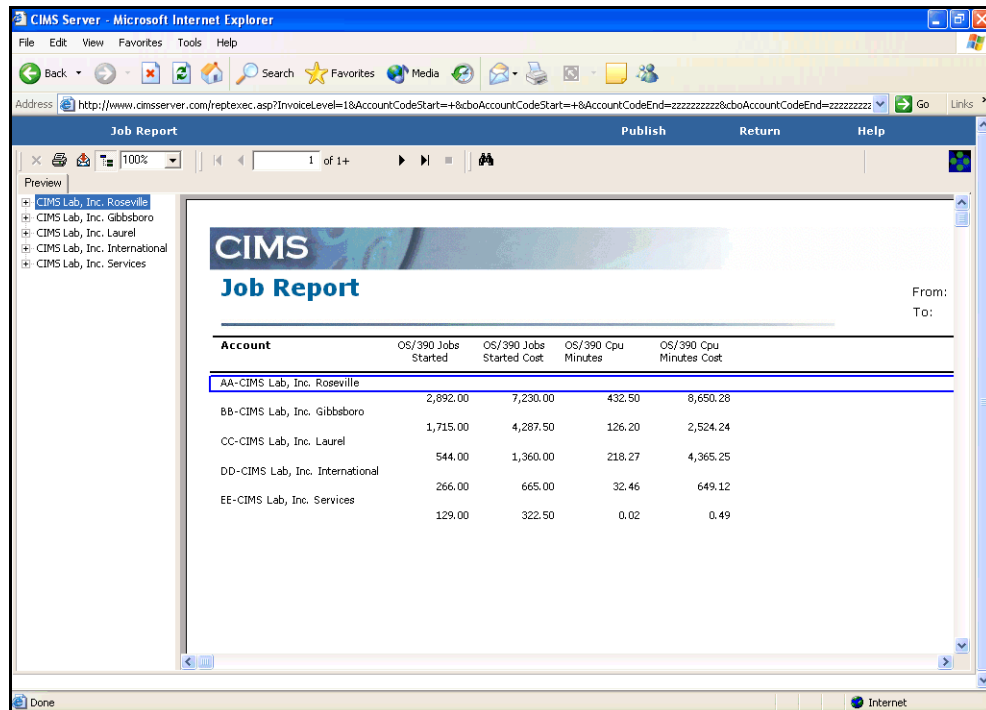


Figure A-76 • Generated Report Example

The preceding examples are also applicable to the Cost and Resource reports with the following exceptions:

- The Report Type is Cost or Resource rather than Both.
- The resulting report shows resource usage or charges, not both.

### Report Cost Template

**File name:** RTMPC001.rpt

**Stored procedure:** CIMSSP\_Summary

This template produces Cost reports that show charges by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Eight rate codes (selected when report was created)
- Eight decimal place options (selected when report was created)

**Report Example**

See [page A-97](#).

## Report Resource Template

**File name:** RTMPR001.rpt

**Stored procedure:** CIMSSP\_Summary

This template produces Resource reports that show resource usage by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Eight rate codes (selected when report was created)
- Eight decimal place options (selected when report was created)

**Report Example**

See [page A-97](#).

## Spreadsheet Both Template

**File name:** STMPB001.rpt

**Stored Procedure:** None

This template produces Both spreadsheets that show resource usage and charges by account code and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Four rate codes (selected when spreadsheet was created)
- Four decimal place options (selected when spreadsheet was created)

Report Example

Figure A-76 shows the creation of a Both spreadsheet called Oracle Usage. Figure A-77 shows the resulting report that has been run from the Spreadsheets menu.

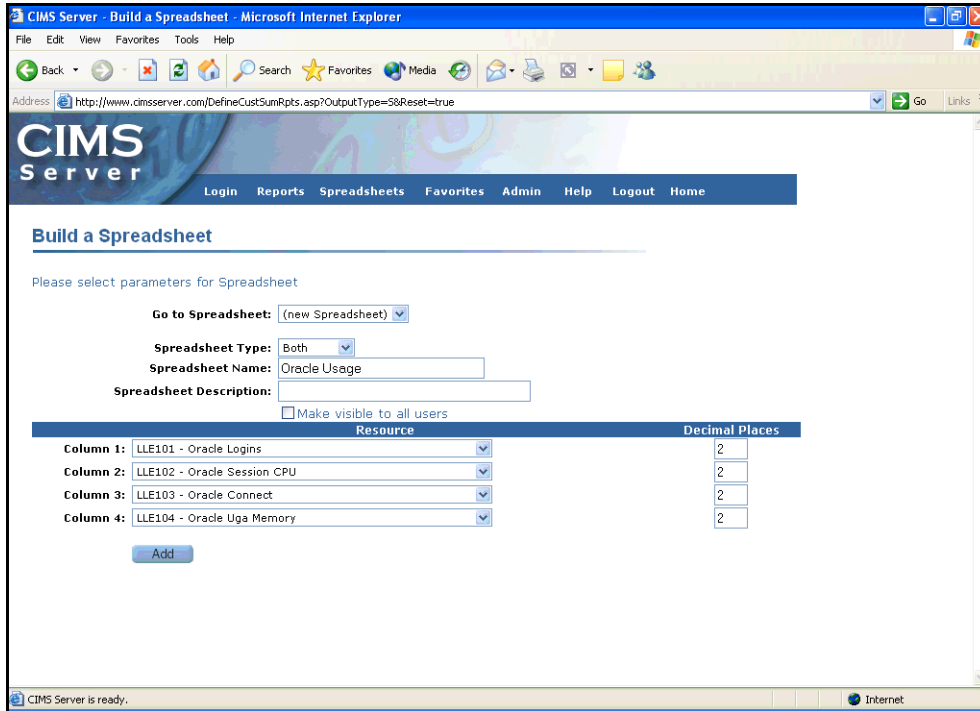


Figure A-77 • Creating a Spreadsheet Example

AccountName	AccountCode	Oracle Logins	Oracle Sessio	Oracle Connect	Oracle Conne	Oracle Uga Memory	Oracle Uga I		
CIMS Lab, IniAA		40.00	0.80	320.88	73.77	2,514.90	1,131.71	7,073,367.38	17.66
CIMS Lab, IniBB				58.57	13.50	2,520.00	1,134.00	64,150.92	0.15
CIMS Lab, IniCC		10.00	0.20	53.07	12.21	3,240.21	1,458.10	2,445,944.94	6.11
CIMS Lab, IniEE		95.00	1.90	811.20	186.58	2,078.07	935.14	9,671,392.14	24.20

Figure A-78 • Generated Spreadsheet Example



The preceding examples are also applicable to the Cost and Resource spreadsheets with the following exceptions:

- The Spreadsheet Type is Cost or Resource rather than Both.
- The resulting spreadsheet shows resource usage or charges, not both.

## Spreadsheets Cost Template

**File name:** STMPC001.rpt

Stored Procedure. None

This template produces Cost reports that show charges by account and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Eight rate codes (selected when spreadsheet was created)
- Eight decimal place options (selected when spreadsheet was created)

**Report Example**

See [page A-100](#).

## **Spreadsheets Resource Template**

**File name:** STMPR001.rpt

Stored Procedure. None

This template produces Resource spreadsheets that show resource usage by account and rate code description for the parameters selected.

**Drilldown:** None

**Parameters:**

- Invoice Level
- Starting and Ending Account Code
- From and To Date
- Eight rate codes (selected when spreadsheet was created)
- Eight decimal place options (selected when spreadsheet was created)

**Report Example**

See [page A-100](#).



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# Glossary

**ASP** • Acronym for Active Server Pages. A server-side scripting environment developed by Microsoft for developing Web pages and applications.

**CIMS Server Resource File** • The resource file that contains the data that is input into CIMS Server. The CIMS Server Resource File contains CIMS Server Resource Records. These records are comma-delimited and can contain a very large number of resource identifiers and resources. *See also identifier and rate code.*

**cookie** • A small text file that stores information about a Web site user. CIMS Server Web Reporting stores user information, such as the report parameter values entered by a user, in a cookie.

**DSN** • Acronym for Data Source Name. The name assigned to an ODBC data source.

**identifier** • In the CIMS Server Resource Record, a unique key that denotes the source of a resource that has been consumed. Examples include device name, server name, system ID, phone number, user ID, state code or building number. A consumed resource can have one to many identifiers.

**IIS** • Acronym for Internet Information Services. Microsoft software that supports Web site creation, configuration, and management.

**ODBC** • Acronym for Open Database Connectivity. An interface providing a common language for database access.

**rate code** • A rate code represents the resource units being reported (for example, CPU time, transactions processed or lines printed). The rate code includes the value for the resource and other rate processing information.

**URL** • Acronym for Uniform Resource Locator. The address for a resource on the Internet or an intranet.





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