

CTI Billing Solutions Limited

# Help desk guide

**Analysis 7 1.10 - Core Back-office** 

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# **Preface**

### **Document definition**

### **Objectives**

This *Help desk guide (HDUG)* describes the core Back-office *Analysis 7 (A7)* functionality available at product release *1.10*, identifying the key functional components together with any constraints or variations to their use.

As the basis for a common understanding of available functionality and options it will aid the design, configuration and deployment of solutions.

### **Audience**

This manual is for Help Desk and Customer service users of A7's Back-office functionality (that is, those with user types *Tech Support; Administrator; Customer service; Account manager* or *Bureau*).

### Things you'll need before you start

- An understanding of the Telecoms' service-provider environment and terminology.
- Awareness of analytics solutions and of the user-interfaces (UI) they typically utilise.

### Related documents

This document is part of the *A7 documentation set*, which comprises:

Document title	Audience	Reference
Analysis 7 v1.10 – Core Back-office Help Desk Guide	Operations, support & administration	MMA7HDUG
Analysis 7 v1.10 – Core Back-office Operations guide	Operations, support & administration	MMA7OPS
Analysis 7 v1.10 – Core Back-office Product specification	Management, deployment & administration	MMA7BOPS
Analysis 7 v1.10 – Core Front-office Admin User Guide	Management & administration	MMA7AUG
Analysis 7 v1.10 – Core Front-office Product specification	Management, deployment & administration	MMA7FOPS
Analysis 7 v1.10 – Core Front-office Subscriber User Guide	General usage	MMA7SUG
Analysis 7 v1.10 – Core Installation Guide	Operations, support & administration	MMA7INS
Analysis 7 v1.10 – Core Pre-Installation Guide	Management, deployment & administration	MMA7PRE
Analysis 7 v1.10 – Data description`	Management, deployment & administration	MMA7DD
Analysis 7 v1.10 – Data limits and constraints	Management, deployment & administration	MMA7LIM

### **Documentation conventions and devices**

### General

This document uses the term *service-provider* to refer to the organisation purchasing (or licensing) the A7 solution from *CTI* to providing it as a service to its own customers and subscribers.

### Images of screens and reports

Screen and report images are included for illustrative purposes only. They do not necessarily reflect the exact layout and functionality of the solution provided to a specific *service-provider*. All reasonable endeavours are taken to ensure that data so displayed is either test data or anonymised data.

### **Typography**

The following typographical conventions are used throughout this document.

### **Special notices**

€	Hints	and	tips





### **Contextual indicators**

This text is a cross-reference.

This text refers to an object or feature.

This text indicates computer input, or computer file path names.

- This text introduces a numbered list of instructions.
- 1. Numbered lists are always instructions.

Text like this is the name of a screen object; something you type into, press or select.

[This text is a physical button to be pressed]

The Scheduled reports tab, the Main Menu

- Navigate to /directory/path name
- Input This is a description as Data description
- Input This is a description as Data description
- Next to continue
- Select Data category

[Enter]

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# Part One Getting Started

Chapters in Part One.	
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This section describes the user interface through which A7 delivers functionality and introduces some fundamental A7 concepts.

Core Back-office – Help desk guide

### 1. What A7 looks like

Each feature-set has its own display layout – normally based around an A7 report – however a standard set of icons, buttons and links provide a consistent interface throughout A7.

# 1.1. General layout

### Not all of these components are visible in the back-office.

The user interface (UI) map – *Figure 1 (below)* – below introduces some of the basic user interface elements, naming them and identifying their purpose in the accompanying table.

A7 comprises a series of one or more *panels* presented on *pages* accessed via the navigation tabs in the *Main menu*.

You will quickly learn how to navigate A7's features using:

- One or more of the available menus; <sup>69</sup>
- Buttons or icons; <sup>10</sup> <sup>12</sup> <sup>13</sup>
- My favourite links;
- Hyperlinks embedded within reports or displays.



Figure 1 User interface element map

Table 1 User interface element descriptions

Table 1 User interface element descriptions				
UI Ele	ement name	UI element description		
01	User menu 3	The <i>User menu</i> allows users to manage their <i>A7</i> account.		
02	User Sign-out hyperlink	The User Sign-out hyperlink allows users to exit A7.		
03	Main menu bar	The Main menu bar enables the User to quickly access A7 features.		
04	My view	This is an example of an A7 panel; My view in this instance.		
		My view contains the Current analysis context controls, which select Billing period, Organisational structure, Group or Subscriber, and currency conversion list.		
05	User identifier	The <i>User identifier</i> is shown only when <i>A7</i> is used in <i>Impersonation mode</i> . It displays the <i>User</i> being impersonated and a hyperlink, which returns to the originating <i>User</i> and normal operating mode.		
06	My favourites	Shortcuts to favourite reports.		
07	Help Icon	The <i>Help Icon</i> provides easy access to further information; it opens a <i>Help</i> panel, which describes the features available on the page and may also contain links to further resources.		
08	Breadcrumb trail	The <i>Breadcrumb trail</i> displays the currently selected position ( <i>Group</i> or <i>Subscriber</i> ) within the selected <i>Organisational structure</i> .		
09	Horizontal scroll arrows	Some features such as this <i>Headline summary</i> expand beyond the page boundaries; use the pair of scroll arrows to see the previous/next item in the display.		
10	Active tab	Active tabs move to the foreground of the page to display their content.		
1	Inactive tab	Click to activate Inactive tabs.		
12	Hover-over action:	Holding the cursor over components, such as chart bars, will reveal additional information (in this case the value represented by the bar).		
13	Chart type menu	Charts and reports normally display a function menu, providing access to additional functionality (for example, Print or email).		
14	Report icon	These icons are short cuts to reports; Click to open the report.		
15	Download Icon	These icons are short cuts to dialog panels providing additional information and Download functionality; Click to open.		
16	Delete Icon	Icons such as this provide basic housekeeping functions.		
17	Expandable list	The Expandable list icon appears whenever a list item contains hidden detail. Use it – and the corresponding contract list icon – to view or hide the additional detail.		
18	Cost adjustment arrows	Cost adjustment arrows Icons highlight variances between current and previous Billing period values. They display next t Cost and Original Cost figures on reports		
19	Embedded hyperlinks	Hyperlinks are used within the page to provide shortcuts to other application pages (for example, a relevant report).		
20	Language selection menu	The Language selection menu provides an easy means of changing the UI language.		
Others - not shown on the UI Map.		the UI Map.		
Drop-	down list	A <i>drop-down list</i> enables quick and accurate selection from a predefined list of options.		
Action button Submit Usage		The UI contains <i>Action button</i> to enable the <i>User</i> to access additional functionality within a feature; for example, to <b>Edit</b> or <b>Delete</b> an object.		

 $<sup>^{\</sup>rm 3}$  Also known as the *Welcome* menu.

### 1.2. Selection

### 1.2.1. Report category menu

The Report category menu provides easy access to the Report overview and the Report categories, enabling users to quickly switch between reports.



### 1.2.2. Report filters

Report filters are context-sensitive; the report type and the drill-down level determines which filters – described in *Table 2* () – are displayed.

The returned data includes only records that match the specified criteria, which are typically set either by:

- Selection from a drop-down list;
- Ticking a check box;
- Using a Date-picker;
- Text entry into a Search filter text box.

### ★Removing data filters ...

Use the associated **Clear** or **Remove** links to remove an applied filter and redisplay the unfiltered data.

### ★Searching for text ...

Search filter text boxes begin to work once at least three characters are input. The filtering effect visibly reduces the volume of displayed content.



Figure 3 Report filters pane

Table 2 Back-office report filters

	Table 2 Back office report inters
Data set filter name	Data set filter description
Bill status	A drop-down list enabling filtering by Bill status:
	Options {All; Inactive or Active}.
Code usage	A drop-down list enabling filtering by Code usage:
· ·	Options {All codes; Expired or Active}.
Consolidated customer	A Search filter text box enabling entry of a Consolidated customer code, Company name or Email address.
Consolidated customer	A drop-down list enabling filtering by Group status:
group status	Options {All; Inactive or Active}.
Corporate ID	A Search filter text box enabling entry of a Corporate ID (customer code).
Corporate ID or Name	A Search filter text box enabling entry of a Corporate ID (customer code) or Company Name.
Date - Show all dates	A checkbox; tick to show data for all dates loaded.

Data set filter name	Data set filter description
Date – calendar terms	A drop-down list enabling filtering by generic calendar terms.
	Options {Today, Yesterday, This week, This month or Specified month and year}.
	Constraints:
	<ul> <li>This Month – the current calendar month; from the 1st to the current day – not the preceding 30 days;</li> </ul>
	<ul> <li>This Week – the current calendar week; from the Monday – not the preceding seven days.</li> </ul>
	• If using the specified Year/Month filter, the report includes all jobs in the specified calendar Year/Month.
Date range	A pair of date pickers (calendars) enabling selection of the Date-from and Date-to elements of a date range.
Group status	A drop-down list enabling filtering by Group status:
	Options {All; Inactive or Active}.
Job status	A drop-down list enabling filtering by Job status:
	Options {All; Open; Failed or Complete}.
Profile name	A Search filter text box enabling entry of a <i>Profile</i> name.
User name or email	A Search filter text box enabling entry of a user name or an Email address,
	The filter works on either first or last names and begins to return results when you enter three, or more, characters.
User status	● By default all users (excluding deleted) are shown.
	A drop-down list enabling filtering by <i>User status</i> :
	Options {Enabled; Disabled; Enabled/Disabled or Deleted}
	①Enabled –includes all registered users even if they have never Signed in;

# 1.3. Presentation

# 1.3.1. Report options menu

The *Report options menu* presents a context-sensitive set of options, with each option working on the selected report; for a list of available options see *Table 3* ().

Access the options using the Report options icon:



Table 3 Available report options

Icon	Name	Description
4	Chart	Click on this icon will open up a pop-up display of the report chart. The option to print the report and change the display to pie, line or bar chart is available.
		Not all reports display a graph.
		For individual columns within a report the chart will only be displayed if a numeric column such as duration, costs, averages, etc. are selected by sorting on one of these columns), otherwise no chart icon will be displayed.

5

Icon	Name	Description
\$	Configuration	A7enables the user to select and optionally save a custom report view comprising the:  Columns to appear in the report (some columns are mandatory),  Report sequence  Number of rows per page. If the width of the selected columns exceeds the screen width then a horizontal scrollbar is displayed to enable viewing of off-screen column contents. By default all columns are displayed  See also: Ch. 1.3 1.3.2 Report views ().
*	Download	Save the report you are viewing to a selectable location in one of a number of formats, including:  Each format includes a number of selectable options.  Reports containing a large number of records display the message  Please wait while we prepare your report".  Cheaving this page before the report is generated will terminates the run and you will need to rerun the export  Olf you try to export more than 5,000 records a message will request you to refine your search, or to set the query up as a Scheduled report.
	Email	This allows you to e-mail the report you are viewing to the address you registered with A7 in any of the exportable formats.  Reports containing a large number of records display the message  Please wait while we prepare your report".  If you move away from this page before the report is generated you will need to rerun the export  If you try to export more than 5,000 records a message will request you to refine your search, or to set the query up as a Scheduled report.
	Print Preview	If you select the print icon, the page will display in flat format, with a further option to print the information displayed on the page or return to the report.

### 1.3.2. Report views

Each report displays a *Default report view*, which you can customise using A7's *Selectable columns* feature, which enables users to choose the columns they want displayed.

Using this feature you may define the:

- Name of the saved Report view;
- Columns to be included; although some columns are mandatory – see: Month in Figure 4 ().

### • Report view scope ...

Report views apply only to the selected report and Report summary level. So, columns removed at the top-level are not automatically removed at lower Report summary levels or at Report detail level.

#### • Legacy view ...

Service-providers can opt to retain the fixed system-defined column-sets and not implement selectable columns. However, this may not display all reports in a tidy manner.

This is an unsupported option.

- For example, any drill-down icons and report columns to their left are mandatory; they can neither be moved nor removed.
- Relative positions of the selected columns; using drag-and-drop to arrange them as required;
- Sort column and sequence direction;

6

Number of rows displayed per page.



Figure 4 Report view configuration panel

Once defined and selected a *Report view* is remembered and displayed whenever the report is used. Invalid *Report views* are ignored and the *Default report view* is displayed in its place.

The *Default report view* comprises all the service-provider defined columns for that report, but does not include *Export only* columns.

### Configure a report view

- 1. From the Report category menu, select a <report name>
- From the *Report options* menu, select **Configure**A7 displays the Configuration panel.



- 3. Input a name as View name
- 4. [Optionally] Use the check boxes to select each column to be displayed.
- 5. [Optionally] Drag-and-drop the columns into the required order.
- 6. [Optionally] Specify a different sequence for the report:
  - Deselect the Use the current sorted column checkbox A7 activates the Sort column drop-down lists
  - ii. Select a sort column from the drop-down list, Sort column.
    - Sort columns do not need to be displayed.
  - iii. Select a sort sequence from the drop-down list.
- 7. [Optionally] Select the number of lines per page from the drop-down list, *Rows per page*.
- 8. Save to continue

A7 validates and saves the view.

A7 displays the report using the saved view details.

[Alternatively] **Cancel** to exit the panel without saving the view details.

### Report view selection

From the Report category menu, select a <report name>
 If more than one Report view exists, A7 displays a Report view filter



Figure 5 Report filters pane showing Report view filter

From the Report view drop-down list, select the required <view name>
 A7 displays the report level in the selected view format.



### 1.3.3. Report totals row

Some Bureau reports display a *Report totals* row, which summarises the data in the table.



### 1.3.4. Column scrollbars

If the number of columns selected for display in a report exceeds the available display width then A7 displays a horizontal column scrollbar below each level of the report (that is, not the browser page).

The scrollbar scrolls only columns appearing after the drill-down icons (that is, selectable columns; mandatory columns remain fixed).

# 1.3.5. **Sorting**

Most reports allow for sorting on selected columns.



The solid arrow icons indicate the currently selected sort column and the direction of the sort (ascending or descending).

- Clicking a selected sort icon reverses the sort sequence;
- Clicking on a different sort icon (empty arrow) sorts the report by that field.

# 1.4. Navigation

### 1.4.1. Drill-down icons

Icon	Name	Description
<u> </u>	Select	The Select group icon drills down through the hierarchy of the Organisational structure.
	group	<b>⊘ For example:</b> Click on this icon whilst viewing the top-level of your structure to view the group-level below it and so on down to the usage detail level.

Icon	Name	Description
٩	Select detail	The Select detail icon drills down into the next level of data

### 1.4.2. Page browsing

Page browse controls display at the top and bottom of every page whenever the report contains more rows than the number of lines per page.



Report results are organised in result-sets (that is, pages) containing a user configurable number of lines per page {Default=15}.



Figure 6 Page browse controls

The Page browse controls are described in the table below.

Table 4 Page browse control icons

Icon	Name	Description
Showing 1-5 of 11 raws	Position text message	The Report position message showing the number of rows in the report and the row number range currently being displayed
3	Previous page icon	A (Go to the) Previous page icon
2	Page number icon	<ul> <li>Two or more Page number icons:</li> <li>The page number for the first page and the final page are always displayed,</li> <li>Up to three consecutive intermediate page numbers are also displayed – for example, 2, 3 and 4 in Figure 6 (above);</li> </ul>
D	Next page icon	A (Go to the) Next page icon;
Page Go	Page number text box	A <i>Page number</i> search filter text box and <i>Go</i> hyperlink Input a number and <b>[Go]</b> to go to that page.

# 1.5. Functionality

# 1.5.1. Report actions menu

The *Report actions menu* presents a context-sensitive list of actions to be applied to the selected row – as shown in *Table 5* ().

Table 5 Actions within the Report action menu

Icon	Name	Description
3	Edit	Click to edit the selected object.
	Delete	Click to delete the selected object.
	Download data export	Click to download the selected data export object.
	Test settings	Click to test the sFTP settings.
	View	Click to view the selected object.

# A7 User types

A7 users are either Back-office or Front-office users:

- Back-office Users include:
  - Tech Support Administrator,
  - Customer Services User (read-write),
  - Customer Services User (read-only),
  - Account Manager,
  - Bureau User;
- Front end users include:
  - Top level users,
  - Group users,
  - Subscriber users.

1 See: A7 Administrator's User Guide for a description of Front-office functionality

#### **Functionality Available to Each User Type** 2.1.

Table 6 Functionality available by Back-office user type

Functionality	Tech Support	Customer Service	Bureau User	Account Manager (full)	Account Manager (Read-only)
Tech Support Tab	✓	✓	\$c	✓	✓
Manage Users	✓	✓	*	<b>√</b> <sup>4</sup>	✓
Manage Customers	✓	✓	*	✓	✓
Event Usage	✓	✓	*	✓	✓
Total Volume Report	✓	✓	*	*	×
Account Manager	✓	✓	*	*	×
Registration Code Generator	✓	✓	*	×	×
Bureau Tab	✓	æ	✓	sc	3c
Data Processing	✓	*	✓	×	×
Production Reporting	✓	*	✓	×	×
CBV Tab	✓	æ	✓	sc	3c
Add / amend a CBV	✓	*	✓	*	×
Add / amend corporate logo	✓	*	✓	×	×

<sup>&</sup>lt;sup>4</sup> A limited subset of reports are available.

Functionality	Tech Support	Customer Service	Bureau User	Account Manager (full)	Account Manager (Read-only)
Add / amend partner logo	✓	×	✓	*	×
Profile Management Tab	✓	✓	*	*	×
Profile Feature Manager	✓	✓	×	*	×
sFTP	✓	✓	×	*	×
sFTP	✓	✓	×	×	×

# 2.2. Hierarchy of User Types

Not all Back-office user types can see all other user types – as show in Table 7.

Table 7 The user types visible to other user types

User types visible	User types available				
	Tech Support	Customer Service	Bureau User	Account Manager (full)	Account Manager (read only)
Tech Support	✓	*	*	×	×
Customer Service	✓	✓	*	*	×
Bureau User	✓	✓	*	*	×
Account Manager (full)	✓	✓	*	*	×
Account Manager (read only)	<b>√</b>	✓	×	×	×
Customer User	✓	✓	*	✓	✓

# 3. Managing user details

### 3.1. The user menu

The *User menu* – also known as the *Welcome* menu – provides access to a user's *A7 User* account including functionality to:



Figure 7 User menu

- Return to the Home page;
- Display the Control panel;
- Display the user's account details;
  - Change password details;
  - Change preferences (for example, stop notification emails) via the My Account panel.

### 3.1.1. My Account

You cannot change your user name.

Once signed in, the *User menu* is populated with your name (as entered when your user account was registered) and a My Account link.

From the *User menu, select* **My account** to display the *My Account* panel.

Use *My account* to change your details (for example, your *email address*, *first name* or *last name*) and to change your *password*.

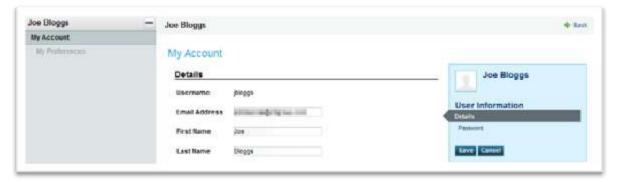


Figure 8 My account panel

# 3.1.2. Changing the Password

You cannot change the password of a user you are impersonating.

You can change a user password only after you sign-in; or alternatively by requesting a password reset.

# Change your password

From the *User menu*, select **My account**.
 A7 displays the *My account* panel (*Figure 8*.

### 2. Select Password.

A7 displays the Password panel.



- 3. Input your new password as New password.
- 4. Input your new password again as Confirm password.
- 5. Save to complete the change.[Alternatively] Cancel to exit without saving the changes.

# 3.2. Changing the Language

You can change your chosen user-interface language at any time.

- Select the required language from the options provided in the footer of each page.
  - 1 Once you have selected a language A7 marks it is as a preference against your username.

# **Part Two**

# **Quick start guide**

# Chapters in Part Two ... ...

4	Accessing A/	1 (
5	Managina customers	18

6 Managing users ......21

A quick introduction to using back-office features.

15

# 4. Accessing A7

# 4.1. User Registration

Use the *User Registration* function to register your user if you have received registration credentials in the form of a *Keyword* and *Authenticode* pair.

- To register
  - From the A7 welcome page, select Register The User registration panel is displayed.



- 2. Input all of the required information.
  - 1 It is particularly important to enter a valid email address as this will be used to send notifications when new data is ready to be viewed.
- 3. Register to save details.

The user details are registered.

The user can now use the Sign In panel to access A7 features.

# 4.2. Sign In

1. From the A7 Welcome page Main menu, select Sign In.



- 2. Input your username and password
- 3. Sign In
  - A single set of credentials can be active on multiple computers simultaneously.

# 4.3. Sign Out

From the Welcome Menu, select Sign Out.



A7's welcome page is redisplayed.

# 4.4. Using the predefined reports

### View a report

- From the appropriate Report overview pane, select the <required report name>.
   [Alternatively] From the Report menu bar, select required <required report name>.
   A7 displays the selected report.
- 2. [Optionally] Apply any data filters, as required, to focus the results returned by the report as described in *Topic 1.2.2 Report filters* ().
- 3. [Optionally] Use the drill-down icons (where available) to view additional detail down.
- 4. [Optionally] Use the report function menu bar to:
  - Print the report >>;
  - Save the report t;
  - Email the report
- 5. To return to the overview; from the report menu bar, select **Overview**.

# 5. Managing customers

# 5.1. Impersonating a customer

Use this *Manage customers* feature to investigate, diagnose and resolve issues. For example to enter the *Front-office* mode acting as a *Top-level user* for a selected customer.

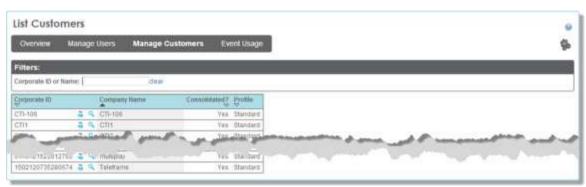


Figure 9 List customers report page

### Enter impersonation mode

- 1. From the Main menu, select Tech support
- 2. Within the Support Overview's Manage Customers panel, List Customers [Alternatively] From the Reports category menu, Manage customers »List customers

A7 displays the List Customers report – Figure 9 ().

- For the required customer, Select Detail 
   A7 displays the selected customer details
- 4. View analysis as customer

A7 displays the *Front-office Home page*, including a warning and a return link. You are impersonaling customer "Demott" Return to tech support

To exit impersonation mode, Return to tech support link A7 returns you to the back-office session.

# 5.2. Changing the assigned profile

Customer profiles determine the features visible to them. Create and edit *Profiles* using the *Profile management* feature (from *Main menu*). But you can assign profiles from within the Manage customers feature-set.

# Assign a profile

 From the List customers report − Figure 9 () − locate the required customer row and Select Detail

A7 displays the selected customer details – *Figure 17* ().

- Within the customer details panel, Action» Assign profile
   A7 displays a list of existing profiles, showing the selected profile's features.
- 3. Select the required profile for this customer.
- 4. **Assign** to continue.

A7 assigns the selected profile and returns you to the *List customer* view. [Alternatively] **Cancel** to exit the process without saving the changes.

# 5.3. Changing customer settings



Figure 10 Housekeeper - customer page

### Change customer settings

- 1. From the Main menu, select Bureau
- 2. Within the *Bureau Reports Overview's Data Processing* panel, **Housekeeper**[Alternatively] From the *Reports category menu*, **Data processing»Housekeeper**
- 3. For the required customer, Select Detail A7 displays the Housekeeper page for the selected customer Figure 10 ().
- 4. Within *Customer details*, **Action**»**Edit Settings**A7 displays the *Update customer settings* panel
- Select the required value for Number of months of usage details to keep dropdown list.
- 6. Update to continue

A7 save saves changes.

# 5.4. Deleting a CBV Account

- 1. From the Main menu, select Bureau
- 2. Within the *Bureau Reports Overview's Data Processing* panel, **Housekeeper** [Alternatively] From the *Reports category menu*, **Data processing»Housekeeper**
- 3. Within the returned list of customers, for the required customer, **Select Group** A7 displays the selected customer's *Corporate ID*.
- 4. For the selected Corporate ID, Action» Delete CBV Account

A7 requests confirmation of the action.

### 5. **Delete** to confirm

A7 deletes the selected CBV account.

[Alternatively] Close window [X] to exit the process without deleting.

# 6. Managing users

# 6.1. Impersonating a user

Use this *Manage users* feature to investigate, diagnose and resolve issues. It enables you to enter the Front-office mode acting as the selected user.



### Enter impersonation mode

- 1. From the Main menu, select Tech support
- 2. From the Reports category menu, select List users
- 3. For the required user, Select Detail
- 4. Select View analysis as this user

A7 opens a front-office session display a warning message and return link.

You are impersonaling customer "Demotit" Return to lech support

Select Return to tech support linkA7 returns you to the back-office session.

# 6.2. Changing user status

Use the *Manage users* feature to enable, disable or delete a user.

### Disable a user

- 1. From within *List users* for the required user, select **Disable user** A7 displays a confirmation message panel.
- 2. **Disable** to continue.

A7 disables the user, which prevents its use in A7 Sign In.

#### Enable a user

- 1. From within *List users* for the required user, select **Enable user** A7 displays a confirmation message panel.
- 2. Enable to continue.

A7 enable the user, which is now able to use A7 Sign In.

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### Delete a user

- 1. From within List users for the required user, select Delete user A7 displays a confirmation message panel.
- 2. **Delete** to continue.

A7 deletes the user.

# **Part Three**

# **Tech Support Tab**

Core Back-office – Help desk guide

Chapters in	Part Three
-------------	------------

7	Support Overview	24
8	Account Manager	34
9	Registration Code Generator	38

Introduces A7's Tech support feature-set, which provides easy access to features that enable Customer and User support, Account and Registration Management.

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#### **Support Overview 7**.

The Support Overview contains three sections with the following options:



Manage Users	Manage Customers	Event Usage
<ul><li>List Users</li></ul>	<ul> <li>List Customers</li> </ul>	<ul> <li>Event Usage Summary</li> </ul>
<ul><li>Users with activity</li></ul>	<ul> <li>Customers with user activity</li> </ul>	<ul> <li>Event Usage By User</li> </ul>
<ul><li>Users with no activity</li></ul>	<ul><li>Customers with no user activity</li></ul>	<ul> <li>Event Usage By Customer</li> </ul>
	<ul><li>List Profiles</li></ul>	
	<ul> <li>Registered Users</li> </ul>	

#### 7.1. Manage users

#### **List Users** 7.1.1.

Only users accessible to the signed-in Back-office user are visible in the list – as described in Section. 2.2 Hierarchy of User Types ().

The List users report functionality includes options to:

- Drill-down to user details;
- Impersonate a selected user;
- View and/or download error logs;
- Disable and Enable a selected user;
- Delete a user:
- View a user's structure positions.

# View the List user top-level report

Within the Support overview's Manage users pane, select List users

[Alternatively] From the Tech support menu, select Manage users»List users

A7 displays the *List user* report.

### Filtering by customer ...

You cannot filter by customer here; use List customers feature. Locate the required customer, then **Select group** to drill-down to their users.

### Report variations or constraints

- Select group action drill-down is unavailable;
- Totals line is unavailable;
- Sort icons are unavailable.

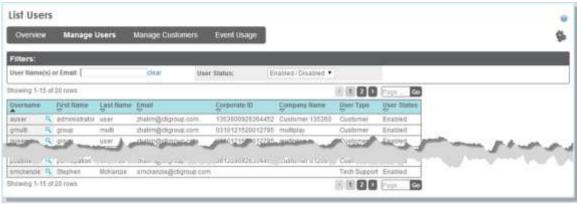


Figure 11 Manage users – list users sample

### View the List user top-level report

1. From *Manage users' List users*, **Select detail**  $\stackrel{\triangleleft}{\circ}$  for the required user.

A7 displays the *User details* report showing the available functionality.

### Report variations or constraints:

- Select group action drill-down is unavailable;
- Totals line is unavailable:
- Sort icons are unavailable

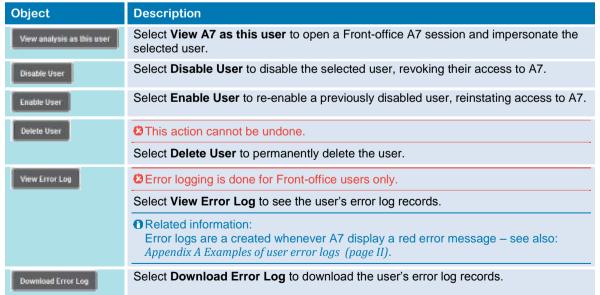


- 2. Select the appropriate functional action as described in *Table 8* ().
- 3. Select **Remove** to return to the top-level report.

### Filters available:

- User Name(s) or Email text search box;
- User Status drop-down list {Enabled/Disabled; Enabled; Disabled; Deleted)

Table 8 List users functionality



Object	Description					
Q	Select detail to see the Structure positions assigned to the selected user.					
	Structure ID Structure Name Structure Type Node ID Node Name Node Type					
	c37 Default Default n212 My Company Group					
	اگر و میداندگار بیدو شدی و استان و استان و استان بیداندگار و استان استان از این استان استان از این استان استان از این استان استان از استان از استان از استان از استان از این استان از این استان از این استان از این از این استان					
	c42 01/11/2009 Billing Defined ri222 My Company Group					
	c39 01/10/2009 Billing Defined in216 My Company Group					

### 7.1.2. Users with activity

This report lists all users that have signed-in, showing basic user details and providing a drill-down, which displays a list of the selected user's sign-on details.

### View users with activity

1. From Support overview's Manage users pane, select Users with activity

[Alternatively] From the Tech support menu, select Manage users» **Users with activity** 

A7 displays the Users with activity report.

### • Report variations or constraints

- Select group action drill-down is unavailable;
- Totals line is unavailable.

### **1** Filters available:

- User Name(s) or Email text search box;
- User Status drop-down list



Figure 12 Manage users - List users with activity sample

### 2. Select detail

A7 displays a log of the selected user's sign-in attempts.



### Refining the report ...

- Show all dates check box
- Data range

   used to set the timeframe covered. This is visible only when Show all dates is unchecked.

#### Users with no activity 7.1.3.

This report lists all users that have not attempted to sign-in, showing basic user details.



Figure 13 Manage users – Users with no activity sample

### View Users with no activity report

From Support overview's Manage users pane, select Users with no activity

[Alternatively] From the Tech support menu, select Manage users» Users with no activity

The Users with no activity report is displayed. • User Status drop-down list

### Report variations or constraints

- Select group action drill-down is unavailable;
- Totals line is unavailable.

### \* Refining the report ...

- User Name(s) or Email text search box;

Username	Dout Name	Last Name	Email	Corporate ID	Company Name	Uner Type	User Status
dhand1	0	hand	dungleten@ctigroup.com			Customer	
ngfilhdsmore.	de contrato	sestiptions.	ntreplighteeliki vilit	with title	witter even	Throatbaue.	Shekenta.
Reputier.	1B	TopUser	ibridge@ctigroup.com	CTI-106	CTI-106	Customer.	Enabled
uunera	HERE	unera	zhañm@c#group.com	CTI-106	CTI-106	Customer	Enabled

Only standard report functionality is available here.

#### **Manage Customers** 7.2.

#### 7.2.1. **List Customers**



Figure 14 List customers report

#### View a list of the customer's users

1. From the *Manage customers* menu, select List Customers

The *List customers* report is displayed.

2. From List customers top-level, Select group =

#### Refining the report ...

- Use the *User Name(s)* or *Email* to find the user required;
- Use the *User Status* filters to view a specific user status.

A list of the customer's users is displayed.

Username		First Name	Last Name	Email	Corporate ID	Company Name	User Type	User Status
133	5	administrator	33	zhallm@ctigroup.com			Customer	Enabled
uusera	Ę	Til 61	usera	zhalim@ctigroup.com			Customer	

Figure 15 List customers; a list of the customers users.

3. From the List customers user list, Select detail

Details of the selected user are displayed – see *Topic 7.1.1* ().

Username	First Name	Last Name	User Type	User Status	Language	Lust Login	Structure Positions
dopuser	d	topuser	Customer	Enabled	defautt		7 9

Figure 16 List customers; a selected users details

#### View the customer details

- 1. From List customers top-level, locate the required customer.
- 2. For the required customer, Select detail

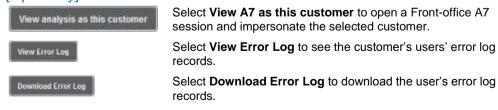
The customer details page is displayed.





Figure 17 List customers - detail panel

3. [Optionally] Select one of the available functions:



Select group

**Select group** to launch the *Assign* profile panel – as described in Ch. 17 Assigning Customers to a Profile (page 59).



#### 7.2.2. **Customers with user activity**

The Customers with user activity report lists all customers with user activity and is very similar to the Users with activity report.



From Manage customers, select Customers with user activity



Figure 18 Customers with user activity report sample

- View sign-on events for the customer
  - 1. Locate the required customer in the Customers with user activity report's list.
  - 2. For the customer, Select detail

The list of *Sign-on events*, for all the *users* assigned to that *customer* is displayed:

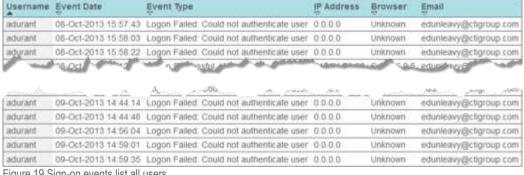


Figure 19 Sign-on events list all users

- Functionality is as described for the *Users with activity* report.
- View users assigned to selected customer
  - 1. Locate the required customer in the Customers with user activity report's list.
  - 2. For the required customer, Select group 3

3. The Users assigned to selected customer list is displayed.

Userna	me	First Name	Last Name	Email	Corporate ID	Company Name	User Type	User Status
amer	Ą.	administrator	user	zhatm@ctigroup.com	85621	Universal Exports 1	Customer	Enabled
guter3	9	group	user	zhaim@ctigroup.com	85621	Universal Exports 1	Customer	Enabled
uuser	5	user	user	zhaim@cligroup.com	85621	Universal Exports 1	Customer	Enabled

Figure 20 Users assigned to a customer list

#### View user sign-on activity

- 1. In the Users assigned to selected customer list, locate the required user.
  - The User Name(s) or Email and User Status filters are available.
- 2. For the required user, Select detail:

A list of all the Sign-in events for the selected user. is displayed

Event Date	Event Type	IP Address	Browser
17-Jul-2013 12:21:35	Unknown	192.168.1.146	Firefox 10.0.1
17-Jul-2013 12:18:24	Logon Successful	192.168.1.146	Firefox 10.0.1
17-Jul-2013 12:18:01	Unknown	192.168.1.146	Firefox 10.0.1
17-Jul-2013 11:54:59	Logan Successful	192.168.1.146	Firefox 10.0.1

Figure 21 Sign-on events list for a selected user

- The Show all dates and Date range filters are available
- Functionality at this point matches the *Users with activity* report.

#### **Customers** with no user activity 7.2.3.

The Customers with no user activity report lists all customers with at least one user that has never attempted to Sign-in to A7.

From the Manage customers menu, select Customers with no user activity report



#### View the inactive users

- 1. In the Customers with no user activity panel, locate the required customer.
- 2. For the required customer, **Select group**

A list of the users for the selected customer is displayed.



Use the User Name(s) or Email and User Status filters to filter long lists.

#### **List Profiles** 7.2.4.

You can only create profiles using the *Profile Management* tab.

The List Profiles feature displays a read-only view of customer profiles



Figure 22 Manage customers - List profiles

This reports shows how many accounts (*customers*) are assigned to each profile (a profile name filter is provided).

#### Select detail

A7 displays a (read-only) list of features in the selected profile



# COTPORATE ID Company Name CTI1 CTI1 0812090925364452 Customer 81209 0310121620012785 multiplay

#### 🗘 🛮 Select group 🍣

A7 displays a (read-only) list of customers assigned to the profile

#### 7.2.5. Registered Users

The Registered Users feature lists all Authenticode and Keyword pairs that A7 has generated; this includes the initial pair generated when data was first loaded and any subsequent pairs generated using the Registration Code Generator.

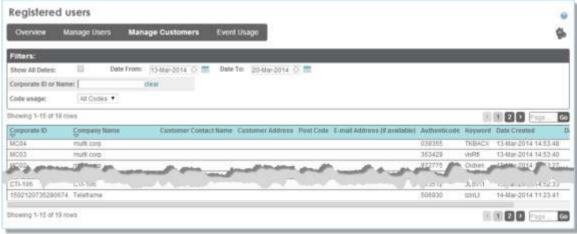


Figure 23 Registered users panel

#### The report shows:

- The customer the pair belongs too
  - No Customer ID/Name is shown for Back-office pairs;
- The date the pair was created;
- When they were used to create a user

1 No timestamp is shown if the pair has not been used.

#### **Events** 7.3.

The Event Usage reports show the usage of selected items of functionality, include a count of the number of times each was used.

Three reports are available:

- Event usage summary An overall summary;
- Event usage by user Usage by individual users;
- Event usage by customer Usage by individual customers.

#### 1 Types of Events Captured

To make the reports meaningful, not every activity or button click is captured.

#### For example:

- Selecting a report from the Report Overview Menu will increment the total for the Internal Calls Report.
- However, any further activity in that report, such as drilling down, is not logged as it would result in a large volume of event logs.

#### Event tracking does not include Administration functionality.

#### 7.3.1. **Event Usage Summary**

The Event Usage Summary shows usage throughout the whole of A7.



Figure 24 Event usage summary example

#### 7.3.2. **Event Usage By User**

Tech Support, Customer Service, and Account Manager user activity is not recorded; these user types are always impersonating a customer or a customer user.

The Event Usage by User report presents the same information, initially summarised by individual user.

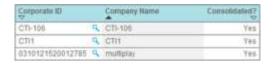
Username		Ejrst Hame	LustName	Email	Corporate ID	Company Name	User Type	User States
auter	Q,	administrator	user	zhalim@ctigroup.com	1353800926364452	Customer 136360	Customer	Enabled
gmutt	Q.	group	mutti	zhalim@ctigroup.com	0310121520012785	multiplay	Customer	Enabled
smckenzie	n.	Stephen	McKwngie	smckenzie@digroup.com			Tech Support	Enabled

Select detail to view the usage for a particular user

## 7.3.3. Event Usage by Customer

Tech Support, Customer Service, and Account Manager user activity is not recorded; these user types are always impersonating a customer or a customer user.

The *Event Usage by Customer* report presents the same information initially summarised by individual *Customer*.



Select detail to expand the list.

A7 displays the usage for all the users of that customer.

# **Account Manager**

Users assigned as account managers are able to access a pre-determined group of customers.



Figure 25 Account manager panel

The Account manager panel – Figure 25 () – allows you to:

- Create groups of customers;
  - Customers can exist in many groups
- Create account managers;
  - Account Managers can exist in many groups;
- Assign account managers to groups of customers.

#### 8.1. Creating a customer group

Customer groupings are set-up by first creating an empty group and then adding the group members.

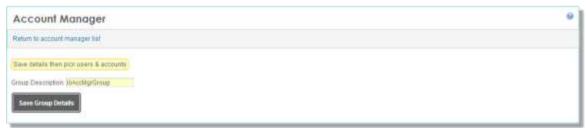


Figure 26 Account manager new group panel

# Create a new customer group

- 1. From the Main menu, Tech support
- 2. In the Account manager panel, Add new The Account manager's New group panel is displayed.
- 3. Input a description as Group description
- 4. Save Group Details

[Alternatively] Return to full page – to exit without saving the group.

A7 creates an empty group and displays Details saved successfully message.

A7 displays the Account manager's Maintain customer group panel.

# 8.2. Maintaining customer groups

Creating a new group, or selecting an existing group, displays the *Account Manager's Maintain customer group* panel, which allows:

- Adding and removing accounts/customers;
- Adding and removing account managers;
- Deleting of the group.



Figure 27 Account manager Maintain customer group panel

#### Add or remove customers

From the Allocated Accounts/Customer pane, Add
 A7 displays the Account manager's Allocate customers panel.



Figure 28 Account manager's Allocate customers panel

- 2. For each customer to be included in the group:
  - i. Locate the customer in the Available Accounts/Customers list
    - Use the Search customers feature for long lists.
  - ii. Select the plus icon in the Actions column of the required customer.
- 3. For each customer to be removed from the group:
  - i. Locate the customer in the Selected Accounts/Customers list.
  - ii. Select the minus icon in the *Actions* column of the required customer.

4. Save Customer to save the changes.

A7 displays the Account Manager's Maintain customer group panel as confirmation.



The links beneath Allocated Accounts/Customers and Allocated Account Managers change from Add to Edit when the respective lists are populated; the same maintenance panel is launched for add and edit.

## Add or remove account managers

- You must first create one or more account manager users as described in Section 8.3 Creating account manager users (page 37).
- 1. From the Allocated Account Managers pane, Add The Account manager's Maintain account managers panel is displayed.



Figure 29 Account manager's Maintain account managers panel

- 2. For each change required to the customer group:
  - In the Available Users list, select the Plus icon to add the account manager;
  - In the Selected Users list, select the Minus icon to remove the account manager
- 3. Save Users

The customer group is updated to reflect the changes.

A7 displays the Account Manager's Maintain customer group panel as confirmation.



Figure 30 Account manager Maintain customer group panel

# 8.3. Creating account manager users

If the *Account Manager* you want to add is not in the *Available Users* list, then you will need to create them.

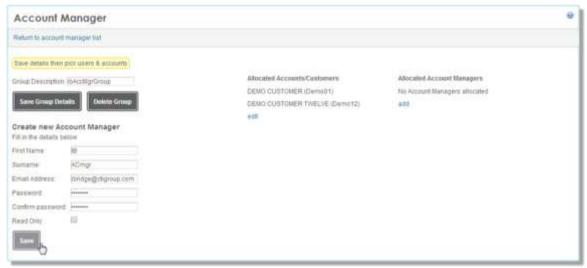


Figure 31 Account manager - using the add new feature

## Create account manager user

- From the Account manager's pane, Add New
   The Create new account manager panel is displayed.
- 2. Enter the details of the new Account Manager.
- 3. [Optionally]To create a read-only account managers select the Read Only tick box.
- 4. Save

The user is added to the Account Manager's Available users list.

# **Registration Code Generator**

This panel is available only to Tech Support and Customer Service users.

User type restrictions

credentials for other Tech Support users.

Authenticode/Keyword pairs can be generated only for user types at, or below, the level of the user generating them.

▶ So, for example, only Tech Support users can create

The Registration Code Generator creates Authenticode and Keyword pairs, credentials used to create the following types of users:

- Tech support users (general administrator);
- Customer services user;
- Bureau user;
- Customer top-level (CBV level) user.

Once generated the credentials are used to create a new A7 user.

# Create registration credentials

- 1. Select a user type from the **Registration type** drop-down list.
- 2. [Optionally]Input a valid Corporate ID.
  - Use this only when creating Top-level users
- Request Code.

A7 displays the generated credentials.



Figure 32 Registration code generator - showing generated codes

#### [Alternatively] Use List Active

A7 displays all generated credentials not used to register a user.

#### [Alternatively] Use List Used

A7 displays a list of generated credentials used to register a user.

# **Part Four**

# **Bureau Tab**

#### **Chapters in Part Four...**

- 12 Production reporting...... 46

Introduces A7's Bureau features, which provide Data processing and Production reporting.



#### **Bureau reports overview** 10.

The Bureau reports overview page provides a gateway to reports and functionality aimed at the management – and monitoring – of data processing and performance.



Figure 33 Bureau reports overview

Data Processing	Production Reporting
<ul><li>View Jobs</li></ul>	<ul> <li>Performance Statistics</li> </ul>
<ul> <li>Job Status Summary</li> </ul>	<ul><li>Login Attempts</li></ul>
<ul> <li>Job Charges Summary</li> </ul>	<ul><li>Sessions By Day of Week</li></ul>
<ul><li>Payment Summary</li></ul>	<ul><li>Sessions By Hour of Day</li></ul>
<ul><li>Housekeeper</li></ul>	<ul> <li>Sessions By Customer</li> </ul>
<ul> <li>Load Report</li> </ul>	<ul><li>Sessions By User</li></ul>
	<ul> <li>Sessions By Partition</li> </ul>

٥ From the Main menu, select Bureau

A7 displays the Bureau reports overview (Figure 33).

# 11. Data processing reports

## 11.1. View jobs

The *View Jobs* report displays all requested jobs, including requests to load data and to remove data (automatically via housekeeper or manually).

To view the jobs report, from the *Main menu*, **Bureau»Data processing»View jobs** 



Figure 34 View jobs page

The report shows the current job status, which is also available as a filter and takes the values:



- Open the job has been requested but has not yet finished;
- Completed;
- Failed.
- To view a Job details report, locate the required job and Select detail



Figure 35 View job's Job details report

# 11.2. Job status summary

This report shows the total number of jobs requested summarised by *Job status* (that is, Open, Failed or Completed); a *Date* filter is also available.

41

To view the job status report, from the *Main menu*, **Bureau»Data processing»Job status summary** 



Figure 36 Job status summary report

# 11.3. Job charges summary

This report shows the number of items processed in the selected timeframe; the items summarised include:

- Number of charges (n-chg);
- Number of subscribers (n-hset);
- Number of usage events (n-cdr).
- Refining the report ...
   Use the Date drop-down filter to vary the timeframe; default is the current month.

To view the jobs charges summary, from the *Main menu*, **Bureau»Data processing»Job charges summary** 



Figure 37 Job charges summary report

# 11.4. Payment summary

The *Payment Summary* displays a running total of data load and access statistics summarised by customer, which includes the number of loaded:

Refining the report ...

[Alternatively]: Show All Dates.

Initially this report shows the last calendar month's totals.

Use the date pickers to set the Date from and Date to.

- Billing Entities;
- Subscribers;
- Usage records (CDR);
- Bills:
- Unique logins;
- All logins.
- Within Bureau reports overview's *Data processing* pane, select **Payment summary**[Alternatively] From the *Report category menu*, **Data processing**» **Payment summary**



Figure 38 Payment summary

# 11.5. Housekeeper

Housekeeper functionality allows the removal of loaded data such as:

- A whole customer;
- A specific month;
- A specific data file;
- A specific account (all months/data files).



Figure 39 Housekeeper report

#### List the accounts loaded for a customer

1. From *Housekeeper's* returned list, **Select detail** q for the required customer. The list of customer accounts loaded is returned.



Figure 40 Housekeeper; accounts for selected customer

- 2. [Optionally] Delete to delete the selected account.
  - This deletes the data (files) for all months for the selected account.

#### List the months loaded for a customer

1. From *Housekeeper's* returned list, **Select group** a for the required customer. The list of months loaded is returned

BIII I	Date	Loaded Loaded	Lines	Entities		File Type	Original Corp	Status	Month Status	A
18-0	ec-2012	17-Sep-2013	559	5	No	Usage and Charges		Active	Active	18
19-70	ov-2012	17-Sep-2013	556	5	No	Usage and Charges		Active	Active	w
17-0	ct-2012	17-Sep-2013	556	5	No	Usage and Charges		Active	Active	12
18-5	ep-2012	17-Sep-2013	549	5	Yes	Usage and Charges		Active	Active	8
	19-70	19-Nov-2012 17-Oct-2012	18-Dec-2012 17-Sep-2013 19-Nov-2012 17-Sep-2013 17-Oct-2012 17-Sep-2013 18-Sep-2012 17-Sep-2013	18-Dec-2012 17-Sep-2013 559 19-Boy-2012 17-Sep-2013 556 17-Oct-2012 17-Sep-2013 556	18-Dec-2012 17-Sep-2013 559 5 19-Nov-2012 17-Sep-2013 556 5 17-Oct-2012 17-Sep-2013 556 5	18-Dec-2012 17-Sep-2013 559 5 No 19-Nov-2012 17-Sep-2013 556 5 No 17-Oct-2012 17-Sep-2013 556 5 No	18-Dec-2012 17-Sep-2013 559 5 No Usage and Charges 19-Nov-2012 17-Sep-2013 556 5 No Usage and Charges 17-Oct-2012 17-Sep-2013 556 5 No Usage and Charges 17-Oct-2012 17-Sep-2013 556 5 No Usage and Charges 18-Sep-2012 17-Sep-2013 549 5 Ves Usage and	18-Dec-2012 17-Sep-2013 559 5 No Usage and Charges  19-Nov-2012 17-Sep-2013 556 5 No Usage and Charges  17-Oct-2012 17-Sep-2013 556 5 No Usage and Charges  17-Oct-2012 17-Sep-2013 556 5 No Usage and Charges  18-Rep-2013 17-Sep-2013 559 5 Ves Usage and	18-Dec-2012 17-Sep-2013 559 5 No Usage and Charges Active 19-Nov-2012 17-Sep-2013 556 5 No Usage and Charges 17-Oct-2012 17-Sep-2013 556 5 No Usage and Charges 17-Oct-2012 17-Sep-2013 556 5 No Usage and Active 18-Rep-2012 17-Sep-2013 556 5 No Usage and Active	18-Dec-2012 17-Sep-2013 559 5 No Usage and Charges Active Active 19-Nov-2012 17-Sep-2013 556 5 No Usage and Charges Active Active Active 17-Oct-2012 17-Sep-2013 556 5 No Usage and Charges Active Active 17-Oct-2012 17-Sep-2013 556 5 No Usage and Active Active Active 17-Oct-2012 17-Sep-2013 556 5 No Usage and Active Active 17-Oct-2012 17-Sep-2013 559 5 Ves Usage and Active Active 17-Oct-2012 17-Sep-2013 559 5 Ves Usage and Active Active 17-Oct-2012 17-Sep-2013 559 5 Ves Usage and Active Active 17-Oct-2012 17-Sep-2013 559 5 Ves Usage and 17-Oct-2012 17-Sep-2013 559 5 Ves Usage and 17-Oct-2012 17-Oct-2012 17-Sep-2013 559 5 Ves Usage and 17-Oct-2012 17-Oct-

Figure 41 Housekeeper; months loaded for customer

- 2. [Optionally] Delete to remove the selected month.
  - This deletes the data (files) for all months for the selected account.

3. [Optionally] **Select detail**  $\P$  for the required month.

A list of data files loaded for the selected month is displayed.

Bill Description	Bill Date	Date Loaded	Lines	Billing Calls Entitles Removed	File Type	Original Corp ID	BIII Status	Month Status	Ac
December 2012 925000054	18-Dec-2012	17-Sep-2010	006	0 No	Usage and Charges	925000064	Active	Active	8
2012-12 (084M104203T571-0) 084M104203T571	03-Dec-2012	17-Sep-2013	13	G No	Usage and Charges	084M104203T571	Active	Active	12
2012-12 (C129064T-0) C129064T	01-Dec-2012	17-Sep-2013	240	0 No	Usage and Charges	C129064T	Active	Active	2

Figure 42 Housekeeper; Data files for selected month

[Optionally] Delete I to remove the selected data file.

# 11.6. Load report

The Load Report lists all the data files loaded into the system.

The columns shown include the date/time that the file was loaded and counts of the data the file contained (for example, a count of subscribers, CDRs, total charges & total value of invoices).



Within Bureau reports overview's Data processing pane, select Load report [Alternatively] From the Report category menu, Data processing» Load report



Figure 43 Load report

# 12. Production reporting

#### 12.1. Performance statistics

This report requires system configuration to run successfully.

Refining the report ...

Initially this report shows the last week's statistics.

Use the *Date pickers* to set the *Date from* and *Date to*. [Alternatively]: **Show All Dates**.

The statistics displayed by the *Performance*Statistics report enable analysis of the impact workload is having upon performance; they are based on:

- The time taken to action seven key performance indicators (kpi);
- The number of user sessions open at the time of the measurement.



Figure 44 Performance statistics report

# 12.2. Login attempts

The Login attempts report summarises the number of successful, failed and total sign-in attempts per day in the selected period.

# Refining the report ... Initially this report shows the last week's statistics. Use the Date pickers to set the Date from and Date to. [Alternatively]: Show All Dates.



Figure 45 Login attempts report

# 12.3. Session reporting

The five Sessions by... reports summarise the number of A7 sessions in a timeframe by:

- Day of the week;
- Hour of the day;
- Customer;
- User:
- Partition.
- 1 An A7 session a single instance of a single user signing-in, using (or not) A7, and signing-out.

#### Refining the reports ...

Initially these reports show statistics from the previous week. However all five reports have at least the *Date* filter available.

Use the Date pickers to set the Date from and Date to. [Alternatively]: Show All Dates.

#### • Impact of extended timeframes ...

A7 aggregates the *Number of sessions* across the whole timeframe, before summarising them..

So view a report such as Sessions by Day of Week over a timeframe of two-weeks and it will show Monday with 11 sessions if the counts are:

- Monday (week 1) 6 sessions;
- Monday (week 2) 5 sessions.

#### 12.3.1. Sessions by day of week



Figure 46 Sessions by day of week report

# 12.3.2. Sessions by hour of day

Totals		1,558	
	Hour	Number of Sessions	Percent
00:00 - 1	00.59	65	42%
01:00 - 1	01:59	77	4.9 %
02:00 - (	02:59	67	4.3 %
03:00 - (	03.59	65	42%
04:00 - (	04.59	67	4.3 %
05:00 -	05.59	66	4.2 %
06:00 - 0	06:59	67	4.3 %
07:00 -	07.59	66	42%
08:00 - 1	08 59	67	4.3 %
09:00 -	09:59	68	4.4%
10:00 -	10:59	71	4.6 %
11:00 -	11:59	70	4.5 %
12:00 -	12.59	64	4,1%
13:00 -	13.59	71	4.6 %
14.00 -	14:59	70	4.5 %

Figure 47 Sessions by Hour of day list

#### Sessions by customer 12.3.3.

1 The Date and Corporate ID/Name filter are available for this report

Totals		1,542				
Corporate ID	Company Name	Number of Sessions	Percent			
95621	Universal Exports 2	1,537	99.7 %			
85621	Universal Exports 1	5	0.3 %			

Figure 48 Sessions by customer list

#### Sessions by user 12.3.4.

1 The Date and User name/email filters are available for this report

Totals		1,559			
Username	Corporate ID	Company Name	User Status	Number of Sessions	Percent
apearson	95621	Universal Exports 2	Active	1,537	98.6 %
tsupport			Active	17	1.1%
hmistry	85621	Universal Exports 1	Active	3	0.2 %
demo1	85621	Universal Exports 1	Active	1	0.1 %
edunleavy1	85621	Universal Exports 1	Active	1	0.1.%

Figure 49 Sessions by user list

# **Part Five**

# **CBV Tab**

#### **Chapters in Part Five...**

- 13 Maintaining consolidated customers . 50
- 14 Maintaining account level branding .. 52

Introduces A7's CBV feature-set, which is used for creating new consolidated customers and managing account level branding.

# 13. Maintaining consolidated customers

- The Customer's details must exist in A7 before any data can be loaded for it.
- 1 CBV is a system term used to describe a consolidated customer.

The CBV feature-set enables Back-office users to create consolidated customers and to adjust their applied branding.



Figure 50 Consolidated customers page

#### From this panel you can:

- Maintain customer details
   Add or amend a customer;
- Maintain logos
  - Add, amend or remove a Corporate Logo;
  - Add, amend or remove a Partner Logo.

#### Add a new consolidated customer

 From the Main menu, CBV
 A7 displays the Consolidated customers page – Figure 50 ().



2. Within the *Consolidated customers* page, select the **Add new consolidated customer** hyperlink.

A7 displays the New consolidated customer panel.

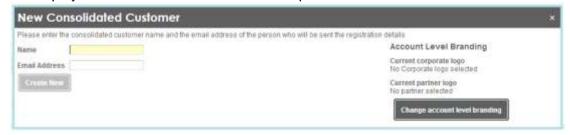


Figure 51 New consolidated customer panel

- 3. Input the following data items:
  - An identifying name as Name;
  - The main contact's (valid) email address as *Email address*.
- 4. [Optionally] Change account level branding as described in *Ch. 14* ().
- 5. Create New

A7 saves the customer details.

#### Email address

This is the recipient address for the *Authenticode* and *Keyword* credentials, which are emailed when data is loaded and activated for the first time.

▶ Enter the credentials into the *User Registration* panel to create the required registered user.

#### Amend customer details

- The amended customer name is used only in **future** *Billing-defined* structures; they are not retrospectively applied to *Historical*, old *Billing-defined* or the *Default* <sup>5</sup> structures.
- Within the Consolidated customers page, select the Consolidated customer code
  of the customer to edit.

A7 displays the *Update consolidated customer* panel.



Figure 52 Update consolidated customer panel

- 2. Amend the details as required.
  - A7 activates the previously inactive *Update Customer Details* button.
- 3. [Optionally] Change account level branding as described in Ch. 14 ().
- Update Customer Details to save the changes
   [Alternatively] Cancel to exit without saving the changes.

<sup>5</sup> It is possible to rename the Default structure within the product.

# 14. Maintaining account level branding

Each *customer* can have its own logo displayed in A7, or can be associated with a partner and have the partner logo displayed.

#### 1 Logo constraints

The logo must be a maximum of 100 pixels wide and 40 pixels high to be displayed correctly.

#### Add or amend branding

 From the Consolidated customer page select either a Consolidated Customer code to update or Add new consolidated customer

A7 displays either the *Update Consolidated Customer* panel – *Figure 52* () – or the *New Consolidated Customer* panel – *Figure 51* ().

2. Within the New/Update Consolidated Customer panel, Change account level branding.

A7 displays the *Update Account Level Branding* panel.



Figure 53 Update account level branding panel

3. [Optionally] To remove a (previously applied) corporate logo:

Select **Use none** as the *Upload Corporate logo* option

- 4. [Optionally] To add a corporate logo:
  - i. Select Upload new corporate logo as the Upload Corporate logo option A7 displays a *Choose file* button.
  - ii. Choose file to continueA7 opens a Windows Explorer panel.
  - iii. Within the Explorer panel, browse to and select the required logo image file
  - iv. Open to continue.[Alternatively] Cancel to close the panel without selecting a logo file.
- 5. [Optionally] To add a corporate partner association,

Select a partner from the **Select corporate partner** drop-down list.

6. [Optionally] To remove a corporate partner association,

Select No corporate partner from the Select corporate partner drop-down list.

7. Updated account branding to continue

A7 saves the account level branding details and returns to the previous panel.

# **Part Six**

# **Profile Management Tab**

Introduces A7's Profile management feature-set.

## **Chapters in Part Six...**

<i>15</i>	About profiles	54
16	Managing profiles	56
17	Assigning Customers to a Profile	<b>5</b> 9

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# 15. About profiles

Only Tech Support and (full) Customer Service users can manage Profiles.

Profiles are groups of A7 features.

Each customer is assigned a profile appropriate for their role; use *Profile manager* to group some (or all) of A7's features into assignable units.

For example:

You may create a profile called SME which designed for smaller customers, whom you want to restrict to viewing only the *Home page*, *Trends*, *Reports* and *Downloads*; excluding them from access to *Usage Tagging* and *Administration* features

In addition to removing whole tabs *Profile management* also allows the removal of specific features, for instance the removal of an individual report.

Read-only Customer Service users do not see the Profile Management tab, although they do see the read-only List Profiles report (on the Tech Support tab).

# 15.1. Feature dependencies

Some features are dependent on others, which must be included in all profiles *Profile manager* displays these essential features in the *Default Features* section; they cannot be removed.

For example:

- To add any Usage Tagging feature you must also add Full Tagging Usage because it controls the appearance of the Usage Tagging tab.
- To add the Manage Subscribers Move or Manage Subscribers Rename feature (or many of the Administration features) you must also add Manage Company Structure.

For example, *CTI* would recommend features) you must also add Manage Compount multicurrency customers do not remove the *Currency Conversion* feature-set.

#### 15.2. Standard Profile

The Standard profile can be neither edited nor deleted.

A7 creates a single profile named *Standard* at installation time; it contains every *feature* available in your deployment of *A7*.

#### 15.3. Default Profile

The Default profile cannot be deleted.

You can designate any profile as the *Default profile*; at installation time the *Standard profile* is the de-facto *Default profile*.

A7 automatically assigns new customers to the current *Default profile* when their data is loaded for the very first time.

To delete a profile that is currently the *Default profile*, first choose another profile to be the *Default profile*.

# 15.4. Profiles and page layout

Removing a feature from a profile also removes the associated panel from A7.

A7's *fluid page design* feature handles this by allowing panels to relocate within the page boundaries to fill space left by the missing panel.

#### Fluid design constraints

The fluid design feature is applicable only for users who **sign-** in to A7's Front-office.

When a Back-office user impersonates a user (or customer) all panels are visible. However, panels not available to the impersonated-user display only a message asserting that fact.

However, removing some combinations of panels may cause styling issues to occur and this must be a consideration when creating and edit profiles.

# 16. Managing profiles

From the *Main menu*, select **Profile Management**A7 displays the *Profile Feature Manager*.



Figure 54 Profile feature manager panel

#### From this panel you can:

- Search for a profile;
- Set a default profile
  - Customers assigned to the previous default remain on their assigned profile until specifically moved

Select the radio button next to the profile name, from that point forward all new customers loaded are assigned to that profile;

- Add a new profile;
- Add features to a profile;
- Remove features from a profile;
- Assign customers to a profile;
- Delete a profile.

# 16.1. Adding Profiles

- Add a new profile
  - 1. From the *Profile feature manager*, select the **Add New** hyperlink A7 displays the *Add new profile* panel.

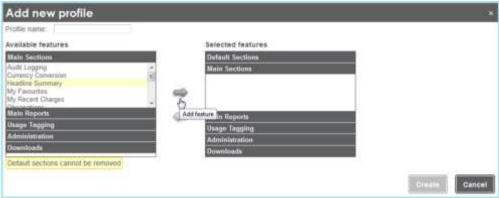


Figure 55 Add new profile panel

- 2. To add a feature to the profile
  - Select the feature
  - ii. Select the appropriate arrow to move it from the Available features list to the Selected features list.
- 3. To remove a feature from the profile
  - i Select the feature
  - ii Select the appropriate arrow to move it from the Selected features list to the Available features list.
- Once you have completed building the profile feature list, Create A7 saves the profile details.

[Alternatively] Cancel to exit without saving details.

# 16.2. Editing Profiles

- Edit a profile
  - - This is the same panel as *Add new profile* panel *Figure 55* () except that the *Create* button becomes an *Update* button.
  - 2. Edit the details as described for Add a new profile.

Once you have completed changing the profile, select **Update** A7 saves the amended profile details.

[Alternatively] **Cancel** – to exit without saving the amendments.

# 16.3. Deleting Profiles

- Delete a profile
  - 1. From the main list of profiles, **Delete** icon

#### A7 displays the *Delete profile* confirmation dialog:



Figure 56 Delete profile panel

#### 2. Yes to continue

A7 queues the profile for deletion by the next run of the *Profile deletion service*.

• A7 re-assigns all customers currently assigned to the deleted profile to the *Default* profile.

[Alternatively] **No** to exit without deleting the profile.

# 17. Assigning Customers to a Profile

- Users logged into a customer at the time of a re-assignment from one profile to another may not see the change until they next sign-in to A7.
- Assign a customer to a profile,
  - From the main list of profiles, click on the people icon A
     A7 displays the Assign customers to profile panel.

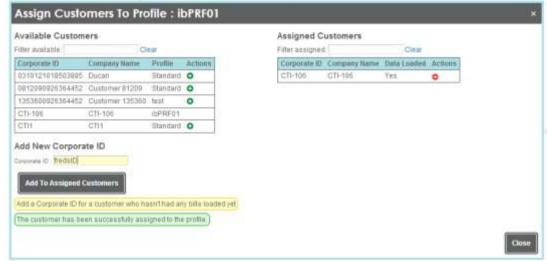


Figure 57 Assign customers to profile panel

- 2. Add customers as required:
  - i. Within *Available Customers*, locate the customer to be added
    - Use Filter available on larger lists.
- To add a customer before loading their data ...
- Input a name as Corporate ID
- Add to assigned customers to add to the profile
- The customer is added to the profile.

ii. Add icon

A7 assigns the selected customer to the profile.

- 3. Remove customers as required:
  - i. Within Assigned Customers, locate the customer to be removed

# **Part Seven**

## **Chapters in Part Seven...**

18 Configuring sFTP profiles ......62

sFTP Tab

Introduces A7's Profile management feature-set.

61

# 18. Configuring sFTP profiles

The *sFTP* feature-set enables *Service-provider*s to configure *sFTP* servers to handle file downloads.

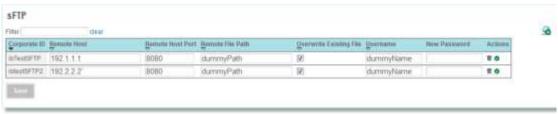


Figure 58 sFTP profile list

#### Add new sFTP profile(s)

 From the sFTP profile list, select Add new profile 6

A7 displays the *Add new sFTP profile* panel.



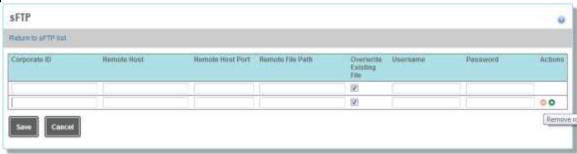


Figure 59 Add new sFTP profile panel

- 2. For each profile to be added:
  - i. Select Add A7 displays a new blank details row.
  - ii. Input the required sFTP details.
- For each profile to remove, select Remove 
   A7 deletes the selected profile (and row).
- 4. Save

A7 saves the profile(s).

[Alternatively] Cancel to exit without saving the changes

- 5. Return to sFTP list to exit the panel
  - Any details not saved are lost.

#### Test an sFTP connection

From the *sFTP Profile List*, select **Test connection**



Figure 60 Example test of sFTP connection

# **Appendices**

П

# **Appendix A Examples of user error logs**

Red error messages may appear for any user for many different reasons. It is impossible to document every possible error message that may occur as they are generated only when the error occurs.

Error logs for users can be viewed or downloaded from the Tech Support tab when viewing a user's details.

#### A.1 Error message components

There are the following parts of an error message:

There are the remaining paints or an error mesotage.			
Code	Description		
When	Details when the error occurred (uses server date and time)		
ClassRef	Details which component of the application reported the error		
Cause	Usually the command that tried to execute when the error occurred		
Туре	For example an API or a Java exception		
Message	A more detailed description of what has happened		
Stack Trace	A list of open routines at the time the error occurred		

#### A.2 Example error log file as downloaded:

In this example, the API has returned a 'Customer not found exception' the reason for which needs to be investigated further.

```
When:
              28-Apr-2010 13:32:11
ClassRef:
             class com.cti.panther.web.servlets.Back-
office.ConsolidationServlet
    http://192.168.1.113:80/mncapi73/customer/C00065?lang=en GB
             class com.cti.panther.api.ApiException
Message: API call error: 404 - URL:
http://192.168.1.113:80/mncapi73/customer/C00065?lang=en GB
Exception Type: com.cti.panther.types.CustomerNotFoundException
Exception Message: CustomerPartitionLookup failed for CorpID C00065
Exception Detail: com.cti.panther.types.CustomerNotFoundException:
CustomerPartitionLookup failed for CorpID C00065
at com.cti.panther.data.DalLookups.CustomerPartitionLookup(String
corporateID)
at com.cti.panther.data.DalBase.CustomerPartitionLookup WithCache(String
corpID)
at com.cti.panther.data.Database.GetCustomerDetailsByCorporateID(String
corporateID)
at.
com.cti.panther.business.CustomerLogic.GetCustomerDetailsByCorporateID(S
tringcorporateID)
at com.cti.panther.api.providers.CustomerParameter..ctor(BusinessLogic
biz, String value)
com.cti.panther.api.providers.PantherApiRequest.GetParameterValue(Type
paramType, String name, String value)
com.cti.panther.api.manager.ProviderManager.InvokeMethod(ProviderMethod
method, String[] wildcardValues, ApiRequest request, Object
optionalPostData)
```

```
at com.cti.panther.api.manager.ProviderManager.Execute(ApiRequest
request)
Stack Trace:
at com.cti.panther.api.PantherAPI.doHttpOperation(PantherAPI.java:364)
at com.cti.panther.api.PantherAPI.doApiRequest(PantherAPI.java:133)
at com.cti.panther.api.PantherAPI.doGet(PantherAPI.java:67)
at com.cti.panther.providers.ProviderBase.doApiGet(ProviderBase.java:47)
at
com.cti.panther.providers.CustomerProvider.getCustomerByCorpID(CustomerP
rovider.java:39)
at com.cti.panther.web.servlets.Back-
office.ConsolidationServlet.processAction(ConsolidationServlet.java:150)
at com.cti.panther.web.servlets.Back-
office.ConsolidationServlet.doAction(ConsolidationServlet.java:90)
at com.cti.panther.web.servlets.Back-
office.ConsolidationServlet.doPost(ConsolidationServlet.java:69)
at com.cti.panther.web.servlets.Back-
office.ConsolidationServlet.doGet(ConsolidationServlet.java:60)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:627)
com.cti.panther.web.servlets.PantherServletBase.service(PantherServletBa
se.java:143)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:729)
org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(Applica
tionFilterChain.java:269)
org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilt
erChain.java:188)
at.
org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValv
e.java:213)
at
org.apache.catalina.core.StandardContextValve.invoke(StandardContextValv
e.java:172)
at
org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java
:127)
at
org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java
:117)
at
org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.
java:108)
org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:1
74)
org.apache.coyote.http11.Http11Processor.process(Http11Processor.java:87
org.apache.coyote.http11.Http11BaseProtocol$Http11ConnectionHandler.proc
essConnection(Http11BaseProtocol.java:665)
org.apache.tomcat.util.net.PoolTcpEndpoint.processSocket(PoolTcpEndpoint
.java:528)
at.
```

org.apache.tomcat.util.net.LeaderFollowerWorkerThread.runIt(LeaderFollow erWorkerThread.java:81) org.apache.tomcat.util.threads.ThreadPool\$ControlRunnable.run(ThreadPool .java:689) at java.lang.Thread.run(Thread.java:595)

## A.3 Example error log file as seen on screen:

In this case the error was that a report failed to render correctly.

When	02-Ju-2012 12-45-43
Classifier	class cont.ct. partitier web portlets report helpers Report ToolsNelper
aune	Unknown
уре	SuperReport Render Exception
dessage	
Stack Trace	at concil patther web porteis report outbrereport ListonReports. PermoveStructuresVittNeSsummaryPermission(ClustonReports alva 455) at common pattern web porteis report customreport CustomReport and Informacy Structure Challes (ListonReports and 1771) at common pattern web porteis report CustomReport CustomReport and Informacy Structure Challes (ListonReport and Informacy Structure) (Informacy Challes) and Informacy Challes (Informacy Challes) (Informacy Challes

# **Appendix B Example Errors from Bureau Tab**

Whenever data fails to load, an error message is logged that can be used to determine the cause of the failure. These are accessed via the *Bureau* tab, *View Jobs* section, by clicking on the *magnifying glass* next to failed jobs.

These errors are in XML format and an example of one is shown here:

```
class No. Phatric Delaryon files (att) CII Group (BC) week Search 1010-04-21 or. gar gas 1001001 [system. Assistant place (att) CII Group (BC) week Search 1010-04-21 or. gar gas 1001001 [system. Assistant place (att) CII Group (BC) week Search 1010-04-21 or. gar gas 1001001 [system. Assistant place (att) CII Group (BC) week Search 1010-04-21 or. gar gas 1001001 [system. Assistant place (att) CII Group (BC) week Search 1010-04-21 or. gar gas 1001001 [system. Assistant place (att) CII Group (BC) week Search 1010-04-21 or. gar gas 1001001 [system. Assistant place (att) CII Group (BC) week Search 1010-04-21 or. gar gas 1001001 [system. Assistant place (att) CII Group (BC) week Search 1010-04-21 or. gas 1001001 [system. Assistant place (BC) (BC) week Search 1010-04-21 or. gas 1010-04-21
```

The area in red has been expanded here:

```
The following elements are not closed: Handset, Invoice, Bill, Customer. Line 173441, position 70016302.
```

In this example, the indicators to show the end of the Subscriber, Invoice, Bill and Customer elements have been missed from the file.

Here is another example of a failed file:

```
- clob los De-182's

- dime fay-"Defarité" DataTppe-T's

-dime fay-"Defarité" DataTppe-T's

-dime fay-"Defarité" DataTppe-T's

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```

As you can see in the red boxes, in the DateTime attribute has an invalid value in it - 1 - 29-11T:



# **Appendix C Logged event types**

Table 9 List of Logged Events

Event	Event
Access to the following reports:	Most Expensive Report
Call Wizard Access (for Call Reports – New)	Peak Off-Peak Report
Charge Categorisation Report	Roamed Report
Charge Wizard Access (for Charge Report – New)	Scheduled Report Management
Cost Allocation Report	Scheduled Report Run Automatic
Cost Range Report	Scheduled Report Run Once
Currency List Updated	Tagging State Report
Destination Analysis Report (for the Call Category	Tagging Usage Report
report)	Transmission Type Report (for the Usage Type
Duration Range Report	report)
Frequently Dialled Report	Unlocked Completed Users Report
Internal Calls Report	Usage Summary Report
Invoice Summary View Bill	Usage tagging
Lock Status Non Completed Users Report	Usage Tagging Report For Admin
Longest Duration Report	Usage Tagging Report For Subscriber
Monthly Trend Report	Watchpoints Updated

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