

Clearspan OpEasy Reporting Guide

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Clearspan OpEasy Reporting Guide

Release 23.3, October 2023

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REPORTING OVERVIEW

REPORT TYPES

OpEasy® provides several basic reports from the Clearspan® system. Reporting privileges can be assigned at an individual admin level.

The report types are:

- Administrator Report
- Edge Device Utilization Report
- Enterprise Usage Report
- Extra Settings Audit Report
- Inventory Report
- License & Optional Services Report
- Registration Report
- System Information Report
- System License Report
- System User and Services Report
- System XML Report
- User Information Report
- Voice Mail Audit Report
- Voice Mail Usage Report

OpEasy also allows you to query Call Detail Reporting (CDR) records and logs for provisioning and phone applications. The Inventory Report, License & Optional Services Report, Registration report, Edge Device Utilization report, Extra Settings Audit Report, CDR queries, provisioning log queries, and phone application log queries are discussed in this document.

For more information on the Enterprise Usage Report, System User and Services Report, System Information Report, System License Report, and the System XML Report, refer to the *Clearspan OpEasy Administrator Guide for Super Users*, *Clearspan OpEasy Administrator Guide for System Administrators* and the *Clearspan OpEasy Administrator Guide for Solution Resellers* based on your login privileges.

Reporting
Choose a Reporting function.

Administrator Report Provides list of all administrators, settings and privileges.	Edge Device Utilization Report Provides a report on edge device utilization. Lists the phone devices that attach to each. Creates a CSV file (.csv) for download.
Enterprise Usage Report Provides a summary of usage for all enterprises in the system. Creates a spreadsheet for download.	Extra Settings Audit Report Provides an audit summary of Global Extra Settings and Template Extra Settings that are in conflict with Global and Template settings.
Inventory Report Provides a user list with primary phone device and device list with assigned users. Creates a spreadsheet for download.	License & Optional Services Report Provides license and optional service usage totals. Creates a spreadsheet for download.
Registration Report Lists the users on each phone device and the registration status of each. Creates a spreadsheet for download.	System Information Report Provides system information. Creates a spreadsheet for download.
System License Report Provides system licensing information. Creates a spreadsheet for download.	System User & Services Report Provides a list of users and all services assigned to those users. Creates a CSV file (.csv) for download.
User Information Report Provides user information. Creates a spreadsheet for download.	Voice Mail Audit Report Provides an audit summary of users Voicemail configuration.
Voice Mail Usage Report Search and display the voice mailbox details.	Scheduling Setup reports to run now or on a pre-defined schedule.
Call Detail Reporting (CDR)	CDR Manager Host Configuration Configure the hosts where CDR files are FTPed by the CDR Manager.
CDR Query Search CDR records and display or download the selected records.	Phone Application Log Query Search and display the event messages generated by Phone Applications.
Provisioning Log Query Search the provisioning log and display or download the selected events.	

Figure 1 - Reporting Menu Page

REPORT FEATURES

The following are report features:

- The reports generated by OpEasy are provided in Excel format with an .xlsx extension. This format is compatible with Excel 2007 and later, but not with Excel 2003.
- Worksheet headers are color coded according to content:
 - Blue: user and license information.
 - Green: service information.
 - Teal: device information.
 - Red: rate information.
 - Orange: report errors.
- Reports that contain service information include counts of Service “Instances” (also known as Virtual Users) because they may be assigned user services and at that time will take up Clearspan User Licenses. Clearspan license names within the OpEasy reports and within the Service Import worksheet align with the Clearspan sales offerings. Clearspan license categories include Basic, Premium, Basic Trunk, Business Trunk and Voice Messaging Only.

VIRTUAL USERS

A Virtual User is a group service that has many of the characteristics of a user (e.g. User Id, Name, Phone Number, and Extension). It can be assigned services just as a normal user can be assigned services. A Virtual User does not consume an OpEasy User License or Clearspan User License by means of its existence. However, if one or more user services are assigned to a Virtual User, a Clearspan User License will be consumed. The Virtual User types include:

- Auto Attendant
- Clearspan Anywhere
- Call Center
- Collaborate Bridge
- Find Me/Follow Me
- Flexible Seating Host
- Group Paging
- Hunt Group
- Instant Group Call
- Meet-Me Conference Bridge
- Route Point
- Voice XML

REPORT FILE NAMES AND TAGS

The default file name for a report is of the form:

ClearspanInventoryReport_{Enterprise}_{Group}_{Department}_{Id}_{Time}.xlsx.

You can change the file names from the default format, choose different file names for files to retrieve in OpEasy and files sent in E-mail, and customize report names using tags. Useful tags for each type of file are shown on each report page. For example,

ClearspanInventoryReport_{Enterprise}_{Group}_{Department}_{Id}_{Time}.xlsx.

would have the following file name:

ClearspanInventoryReport_India_BNG_3_MitelPhones(Group)_93871_20200319-092811

- If the Reports runs against the System or All Enterprises, then the Report name is "AllEnterprises_Clearspan..."
- If there are no Departments in the Group then the Report name is "EnterpriseName_GroupName_Clearspan..."
- If the Report runs for an Enterprise, with a Department and no Group, then the Report name is "EnterpriseName_DepartmentName_Clearspan..."

RUNNING AND RETRIEVING REPORTS

From the Reporting pages, you can run reports, configure report file names, set up scheduled reports, retrieve reports, and enable E-mail notifications.

RUNNING A REPORT

1. From the OpEasy main menu, click **Reporting**. The Reporting menu page displays.
2. Select the type of report you want to run in the menu tree or from the Reporting menu page. A report page appears as shown in figure 2.

Clearspan Inventory Report

Provides a list of users with primary phone device and device list with assigned users (creates a spreadsheet for download). Press 'Start Report' to begin report processing. To schedule a report for later processing, press 'Schedule Report'. Press 'Retrieve Report' to download the current completed report. Press 'E-mail Report' to E-mail the current completed report.

OK Scheduling

Report Settings

Enterprise: (Select Enterprise)

Group: (Select Group)

Department: (Select Department)

NOTE: The report includes all users in the selected department or "(All Departments)". When choosing "(All Departments)", the report also includes users with no department assigned.

Report Version: IR-106

Send E-mail Notification To: randy.craig@clearspancloud.com

Attach Inventory Report

Attachment File Name:

ClearspanInventoryReport_{Enterprise}_{Group}_{Department}_{Id}_{Time}.xlsx

Retrieve File Name:

ClearspanInventoryReport_{Enterprise}_{Group}_{Department}_{Id}_{Time}.xlsx

(Useful tags for File Names: {Id}, {Enterprise}, {Group}, {Department}, {Time}, {StartTime}, {EndTime}, {Admin})

Start Report Schedule Report

Figure 2 - Clearspan Inventory Report Page - Inventory Report Section

3. Select the **Enterprise** to include in the report, if needed.
4. Select the **Group** to include in the report, if needed.
5. Select one **Department** to include in the report, or select **All Departments**, if needed.
6. Check the **Notification** box to send a notification to the E-mail address specified.
7. Check the **Attachment** box to receive a copy of the report in the E-mail.
8. Assign different file names to the **Attachment File Name** and the **Retrieve File Name**, if desired, or just use the default names. Customizing file names can help you set file name standardization for file name sorting or displays. See **Tags** for more information.

- 9. Click **Start Report** to run the report now and see the status at the bottom of the page or click **Schedule Report** to run the report at a later time. The report starts running, or the report is queued as in Figure 3.

Clearspan Inventory Report

Provides a list of users with primary phone device and device list with assigned users (creates a spreadsheet for download).
Press 'Start Report' to begin report processing. To schedule a report for later processing, press 'Schedule Report'.
Press 'Retrieve Report' to download the current completed report. Press 'E-mail Report' to E-mail the current completed report.

Report queued to start

OK Scheduling

Report Settings

Enterprise: SystemValidation -- System Validation

Group: HeadQuarter -- HQ-DIRECT-MPLS

Department: (All Departments)

NOTE: The report includes all users in the selected department or "(All Departments)".
When choosing "(All Departments)", the report also includes users with no department assigned.

Report Version: IR-106

Send E-mail Notification To: randy.craig@clearspancloud.com

Attach Inventory Report

Attachment File Name:
ClearspanInventoryReport_{Enterprise}_{Group}_{Department}_{Id}_{Time}.xlsx

Retrieve File Name:
ClearspanInventoryReport_{Enterprise}_{Group}_{Department}_{Id}_{Time}.xlsx

(Useful tags for File Names: {Id}, {Enterprise}, {Group}, {Department}, {Time}, {StartTime}, {EndTime}, {Admin})

Start Report Schedule Report

Status

Status: Waiting to start...

Scheduling Request ID: 167663

Last Refresh: 07/24/2023 14:22:05

Refresh Cancel

Progress Messages
Report waiting to start...

Figure 3 - Clearspan Inventory Report Queued - Status Section

- 10. Click **Refresh** while the report is running to see status updates.
After the report runs, the Results are shown at the bottom of the page as in Figure 4. The Report Details indicate whether the report completed successfully or failed.

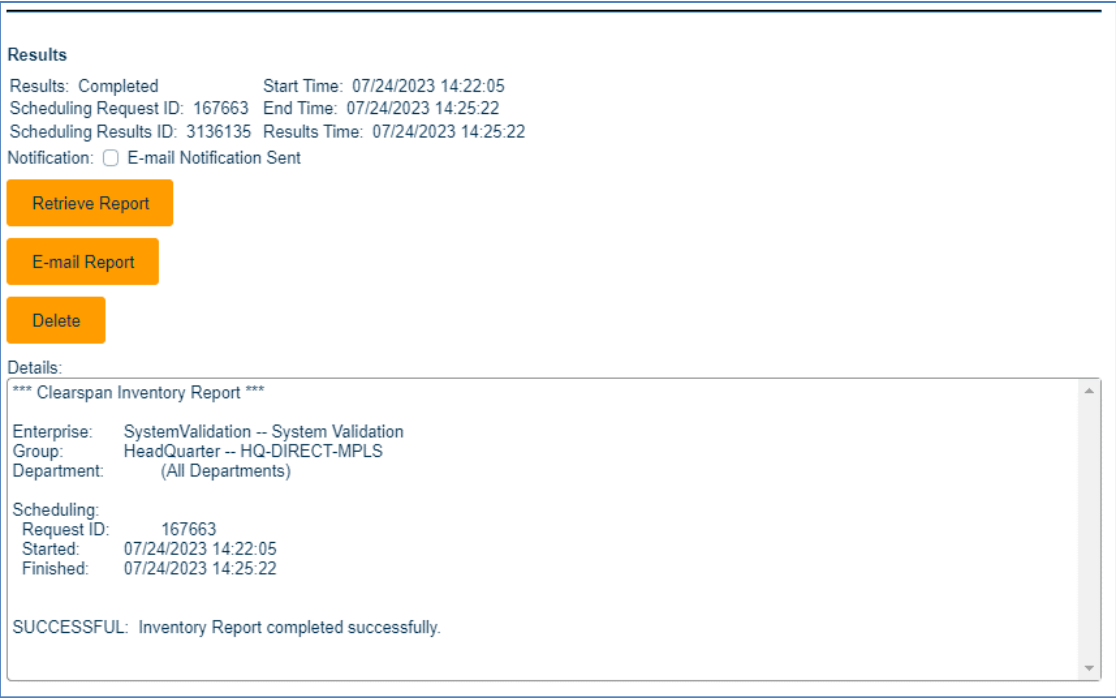


Figure 4 - Results Section - Report Completed Successfully

RETRIEVING A REPORT

To retrieve a report that has just run, click **Retrieve Report** on the OpEasy report page or retrieve the report from E-mail. The current report spreadsheet opens. If the retrieval buttons are grayed out, the user who is logged in has not run any recent reports in the system.

ADMINISTRATOR REPORT

This Administrator report provides the list of all administrators, their settings, and privileges. An optional 'Weak Password' validation can also be selected to include in the report. The Administrator report contains the following tabs based on the admin's privileges:

- OpEasy Admin
- Clearspan Admin

If the Administrator has Full Access, then the report displays:

- OpEasy Admin list with their settings and privileges
- Clearspan Admin list with their privileges

If the Administrator has Limited Access, then only the OpEasy Admin list with their settings and privileges will be displayed in the report.



Note: The Administrator Report is accessible to all Admins.

Administrator Report - Opeasy Admin							
Enterprise: All Enterprises							
Group: All Groups							
Department: All Departments							
Date: 05/15/2023 09:13:08							
Version: AR-103							
							Note Privileges: F - Full Access
Administrator		Password				Email	
Login Name	Administrator Name	Password Changed Time	Password Remaining Time	Change Password Next Login	Weak Password	E-mail Address	E-mail Address for Two-Factor Authentication
ClearspanAdmin	Clearspan Administrator	2016/10/11 07:10:15		FALSE	Yes		
admin_EA	Hameetha	2020/05/11 09:53:24		False		hameetha.banu@mitel.com	
afinch@clearspan.com	a a	2016/10/11 07:10:15		False		fake@email	
alavoie	Arlan LaVoie	2023/03/31 14:52:45		False		arlan.lavoie@clearspan.com	
alavoie-basic	Arlan Basic	2022/04/26 08:51:45		False	Yes	arlan.lavoie@clearspan.com	
alavoie-ea	Arlan LaVoie	2020/03/23 08:38:57		False		arlan.lavoie@clearspan.com	arlan.lavoie@clearspan.com
alavoie-ga	Arlan	2021/08/20 08:03:42		False		arlan.lavoie@clearspan.com	arlan.lavoie@clearspan.com
alavoie-sa	Arlan	2017/01/11 13:39:40		False		arlan.lavoie@aastra.com	
alavoie-sr	Arlan SR	2022/06/28 11:47:05		False		arlan.lavoie@clearspan.com	arlan.lavoie@clearspan.com
API-EA	viru	2023/02/14 11:11:40		False	Yes	viru.kulkarni@clearspan.com	
API-HameethaSA	Hameetha	2022/12/21 07:34:25		False		hameetha.banu@clearspan.com	hameetha.banu@clearspan.com

Figure 5 - Administrator Report

WEAK PASSWORD AUDIT

If a Weak Password audit is included in the Administrator Report, then the cell contains 'Yes' if the administrator password was matched in the Weak Password list. If the cell is blank, then the password was not matched in the weak password list. If the Weak Password audit was not performed in the Administrator Report, then the Weak Password column header includes the text (Not Included) to indicate that the Weak Password Audit was not performed for this report. Also, the cells in the column will contain '--' (double dashes) to indicate that the weak password audit was not performed on the administrator.

OpEasy Administrator Weak Password Audit

The OpEasy Administrator Weak Password Audit processing compares an administrator's password to a weak password list that is stored internally on the EMS. Additional customized weak password lists can be added that are specific to an Enterprise. Contact Clearspan Customer Support for assistance with this process.

When an Administrator Report with Weak Password Audit is executed for 'All Enterprises' then the system default weak password list is used. If an Administrator Report with Weak Password Audit is executed for a specific Enterprise, Group, or Department, then the Enterprise-specific weak password list is used if it exists. If an Enterprise-specific weak password list does not exist, then the System default weak password list is used.

Clearspan Administrator Weak Password Audit

The Clearspan Administrator weak password audit is performed on the Clearspan/BroadWorks Application Server using the BroadWorks weak password tool, "secureTlktWeakPasswordsTool". OpEasy executes the secureTlktWeakPasswordsTool command remotely from the EMS via an SSH session and then downloads the results of the audit from the AS. OpEasy parses the BroadWorks weak password audit results and includes the administrator weak password status in the OpEasy Administrator Report.

EDGE DEVICE UTILIZATION REPORT

The Edge Device Utilization Report provides a report of edge devices by proxy address and lists the phone devices attached to each address. You can use this report to find the number of endpoints connecting through an Edge Device. This is helpful because AudioCodes edge devices used in the Clearspan system have limitations on the devices and traffic that they can support.

The report sorts the endpoint rows first by Proxy Address, then Enterprise, Group, Device Name, Template Name, Template Level and finally by User Id. At the beginning of the rows for each Proxy Address (representing an Edge Device) is an extra line identified by a blank Device Name column that shows the total endpoints for that row. The report shows Proxy Addresses that have the same IP address or host name, but different port numbers, as separate Proxy Addresses.

Edge Device Utilization Report - Phone Devices						
Enterprise:	clearspanlab -- Clearspan LAB					
Group:	sales organization -- Sales Organization					
Edge Device Addresses:	All ("Unknown Address" included)					
Date:	09/28/2020 05:45:06					
Version:	EDUR-102					
Edge Device Address	Address From	Device Name	Device Level	Enterprise ID	Enterprise Name	Group
tb20sbc.cslab.mitel.com:0			Total = 2 endpoints			
tb20sbc.cslab.mitel.com:0	System	MitelDect112-6063338903	Group	clearspanlab	Clearspan LAB	sales
tb20sbc.cslab.mitel.com:0	System	MitelDect112-6063338903	Group	clearspanlab	Clearspan LAB	sales
(Unknown)			Total = 3 endpoints			
(Unknown)	User Defined	Mitel Dect	Group	clearspanlab	Clearspan LAB	sales
(Unknown)	User Defined	MitelDECT6xxDMS-6063338902	Group	clearspanlab	Clearspan LAB	sales
(Unknown)	User Defined	MitelDECT6xxDMS-6063338902	Group	clearspanlab	Clearspan LAB	sales

Figure 6 - Edge Device Utilization Report



Notes:

- For devices that are not managed by OpEasy (devices with User Defined, User Defined Default, or no template), the Outbound Proxy Address cannot be determined and is reported as blank.
- The Edge Report does not recognize when an Edge Device is reference by multiple Outbound Proxy Addresses. It reports the addresses separately.
- The Edge Device Report does not present information on User SCA utilization directly. This information may be derived from the report spreadsheet.
- The Edge Device Report does not provide any information on Group Simultaneous Ring features such as Hunt Groups, Instant Group Call, or Group Paging.

EXTRA SETTINGS AUDIT REPORT

The Extra Settings Audit Report provides an audit summary of any Global Extra Setting(s) or Template Extra Setting(s) that is/are in conflict with any configured Global Extra Setting(s) or Template Extra Setting(s). The report contains only information for Global Extra Settings or Template Extra Settings that are in conflict. If there no Extra Settings are in conflict, then the report will be empty.

- The report contains the following tabs:
- Global Extra Settings tab
- Template Extra Settings tab

GLOBAL EXTRA SETTINGS TAB

The global extra settings tab provides the following information:

- Enterprise
- Group
- Manufacturer
- Extra Settings in Conflict

Extra Settings Audit Report - Global Extra Settings			
Enterprise: Moorehouse -- Moore Enterprises of Texas			
Group: Hershey			
Date: 06/12/2018 06:27:39			
Version: SIR-101			
Enterprise	Group	Manufacturer	Extra Settings In Conflict
<System>		Mitel (Aastra)	dst config: 3 sip line1 rtcp summary report collector: telchemy@%BWHOST-1% sip line2 rtcp summary report collector: telchemy@%BWHOST-1% sip line3 rtcp summary report collector: telchemy@%BWHOST-1% sip line4 rtcp summary report collector: telchemy@%BWHOST-1% sip line5 rtcp summary report collector: telchemy@%BWHOST-1% sip line6 rtcp summary report collector: telchemy@%BWHOST-1% sip line7 rtcp summary report collector: telchemy@%BWHOST-1%

Figure 7 - Extra Settings Audit Report – Global Extra Settings Tab

TEMPLATE EXTRA SETTINGS TAB

The template extra settings tab provides the following information:

- Enterprise
- Group
- Device Type
- Template Level
- Template Name
- Extra Settings in Conflict

Extra Settings Audit Report - Template Extra Settings					
Enterprise: Moorehouse -- Moore Enterprises of Texas					
Group: Hershey					
Date: 06/12/2018 06:27:39					
Version: SIR-101					
Enterprise	Group	Device Type	Template Level	Template Name	Extra Settings In Conflict
Moorehouse -- Moore Enterprises of Texas		Aastra 6867i (DMS)	Enterprise	6867i test	Idle Screen Font Color: White
-- End of Conflicting Extra Settings List --					

Figure 8 - Extra Settings Audit Report – Template Extra Settings Tab

INVENTORY REPORT

The Clearspan Inventory report provides a list of users with primary phone device and a device list with assigned users. The Group and Department that the report is qualified against, along with the date of generation, are presented at the top of the report.

It contains three tabs.

- **Users** tab—all users for the specific Enterprise, Group and Department are presented in Last Name order. Users without devices are included. The header is color-coded blue for Users.
- **Phone Devices** tab—all devices for the qualified Enterprise, Group, and Department are presented. The header is color-coded teal for Devices.
 - Shows all devices with all users assigned to each device.
 - Shows devices without users.
 - Shows **Shared Call Appearances** (SCA) assignments, which are marked with an 'X' to identify the shared lines.
- **Report Errors** tab—any errors that may have been generated. The header is color-coded orange for errors.

USERS TAB

Inventory Report - Users							
Enterprise: BengaluruLab -- Bengaluru Lab							
Group: India_1 -- Bengaluru Lab 1							
Department: All Departments							
Date: 10/05/2021 08:54:52							
Version: IR-104							
Last Name	First Name	Phone Number	Extension	Numbers (Phone Number	Calling Line Id Phone Number	Userid	User Create Date
India_1	x1001	986-555-1001	1001		986-555-1001	9865551001@india.mitel.com	06/01/2021 11:18:43
India_1	x1002	986-555-1002	1002		986-555-1002	9865551002@india.mitel.com	06/01/2021 11:18:44
India_1	x1003	986-555-1003	1003		986-555-1003	9865551003@india.mitel.com	06/01/2021 11:18:45

Figure 9 - Clearspan Inventory Report – Users Tab

The **Users** tab contains the following information:

- Last Name
- First Name
- Phone Number
- Extension
- Alternate Numbers (displayed in the format Phone Number (Extension))
- Calling Line Id Phone Number
- UserId
- User Create Date
- OM (OpEasy Managed UserId)

- SU (Support User)
- Group ID
- Group Name
- Department
- Email Address
- Account ID
- Title
- Fax Phone Number
- Fax Extension
- Address Location
- Device Name
- Device Level
- Device Create Date
- OM (OpEasy Managed Device)
- SD (Support Device)
- Device Type
- MAC Address
- Template Name
- Template Level
- Physical Location
- VLAN ID
- ERL Record Name
- Encrypted

PHONE DEVICES TAB

Inventory Report - Phone Devices							
Enterprise: BengaluruLab -- Bengaluru Lab							OM
Group: India_1 -- Bengaluru Lab 1							
Version: All Departments							
Date: 10/05/2021 08:54:52							
Version: IR-104							
Device Name	Device Level	Device Create Date	OM	SD	SCA	Last Name	Firs
Aastra 6735i (DMS)_9865551014	Group	09/30/2021 07:15:08				India_1	x10
Aastra 6869i(DMS)_9865551052	Group	08/17/2021 02:15:02				Test6869	Tes
Aastra-9865551012	Group	09/24/2021 07:14:51				India_1	x10
Aastra-9865551026	Group	08/05/2021 07:06:59				India_1	x10

Figure 10 - Inventory Report – Phone Devices Tab

The **Phone Device** tab provides the following information:

- Device Name
- Device Level
- Device Create Date
- OM (OpEasy Managed Device)
- SD (Support Device)
- SUS (Suspended Device)
- SCA (Shared Call Appearance)
- Last Name
- First Name
- UserId
- OM (OpEasy Managed UserId)
- SU (Support User)
- Phone Number
- Group ID
- Group Name
- Device Type
- MAC Address
- Template Name
- Template Level
- Physical Location
- VLAN ID
- ERL Record Name
- Encrypted

REPORT ERRORS TAB

Inventory Report - Report Log	
Enterprise:	clearspanlab -- Clearspan LAB
Group:	sales organization -- Sales Organization
Department:	All Departments
Date:	02/25/2021 08:27:34
Version:	IR-103
Report Errors	(List of error messages encountered during processing)
Report Warnings	(List of Warning messages encountered during processing)

Figure 11 - Clearspan Inventory Report – Report Errors Tab

LICENSING & OPTIONAL SERVICES REPORT

The Clearspan Licensing & Optional Services Report provides license and optional service usage within an enterprise. It contains the following tabs.

- **User Licenses** tab – summary of license usage.
- **Basic Users** tab – users with a Basic license.
- **Premium Users** tab – users with a Premium license.
- **Basic Trunk Users** tab – users with a Basic Trunk User license.
- **Business Trunk Users** tab – users with a Business Trunk User license.
- **VM Only Users** tab – users with the Voice Messaging service only, and optionally the Internal/External Calling Line ID Delivery service, as well as any optional services.
- **No License Users** tab – Virtual Users with no service assignments.
- **Optional Services** tab – summary of usage for each Optional service.
- **Optional Service Users** tab – users assigned to each optional service.
- **System Resources** tab – counts of Meet Me Conference Ports and Trunk Channels.
- **OpEasy Licenses** tab - counts of users, 3rd Party phones, and licenses allocated/available for the Enterprise.
- **Virtual On-Net Extensions** tab - list of configured Virtual On-Net Enterprise Extension users.
- **Report Errors** tab - any errors that may have been found during processing.

USER LICENSES TAB

The User Licenses tab shows a summary of the license types and the types of users consuming them. It is color-coded blue for Users. It also shows Virtual Users consuming no licenses.

License & Optional Service Report - User Licenses																		
Enterprise: clearspanlab -- Clearspan LAB																		
Group: sales organization -- Sales Organization																		
Department: All Departments																		
Date: 09/28/2020 05:02:40																		
Version: LOSR-105.2																		
No License type identifies Virtual Users (Service Instances) that have no assigned user services (these users do not consume a user license).																		
Clearspan Users																		
License	Normal Users	Trunk Users	License Upgrade - Basic Services	License Upgrade - Premium Services	Auto Attendant - Basic	Auto Attendant - Standard	Clearspan Anywhere	Call Center	Collaborate Bridge	FindMe/FollowMe	Flexible Seating Host	Group Paging	Hunt Group	Instant Group Call	Meet Me Conf Bridge	Route Point	Voice XML	Total
Basic	1										2							3
Premium	3																	3
Basic Trunk																		0
Business Trunk		1																1
Voice Messaging Only																		0
No License							1		1			1						3
Clearspan User Totals:	4	0	1	0	0	0	1	0	1	0	2	1	0	0	0	0	0	10
Support User Counts																		
Basic																		0
Premium																		0
Basic Trunk																		0
Business Trunk																		0
Voice Messaging Only																		0
No License																		0
Support User Totals:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
All User Grand Totals																		

Figure 12 - License & Optional Service Report – User Licenses

In this example, there is a count of users including Virtual Users and the type of license each user is consuming. The Group and Department that the report is qualified against, along with the date of generation, are presented at the top of the report.

Under the license column, note the following:

- Each of the User License types is listed, including Basic, Premium, Business Trunk and Voice Messaging Only.
- There is an entry for **No License**. This is provided to identify Virtual Users that exist on the system that have not been assigned services.

For each License type, a user could be classified as a Normal, Trunk or Virtual User.

- Trunk Users are further broken down to identify those that have Basic or Premium services assigned.
- Virtual Users are broken down to include each type of Virtual User that could exist.
- Two tables provide license details for Clearspan Users and Support Users. Grand Totals are shown at the bottom of the page. Support Users are excluded from billing.

BASIC USERS TAB

The Basic Users tab lists normal users that are assigned one or more basic services, or no services. It is color-coded blue for Users. The columns provide general user information including **Last Name**, **First Name** and **Userid**.

The **Virtual User Type** column contains the 'Type' if the user is 'virtual;' the column is empty for normal users.

Also provided is a **VMail User** column that identifies a user that has the Voice Messaging service assigned.

The **No Svcs** column identifies a user that has been assigned no services. If an Enterprise administrator sees a user with this column checked, they should consider whether this user needs to exist.

Auto Attendant Menu Count is the total count of menus changed and sub-menus created for each Auto Attendant.

The **Encrypted** column indicates if the devices assigned to the User are encrypted or not encrypted.

License & Optional Service Report - Basic Users										
Enterprise: BengaluruLab -- Bengaluru Lab										OM indicates OpEasy Managed User; S
Group: India_2 -- Bengaluru Lab 2										VMail User identifies a user with the Voi
Version: All Departments										No Svcs identifies a user with NO servic
Date: 09/15/2021 05:38:05										
Version: LOSR-106										
Last Name	First Name	Userid	Virtual User Type	OM	SU	Create Date	VMail User	VM Transcription (Mutare)	ERS Enabled	No Svc

Figure 13 - License & Optional Service Report – Basic Users Tab

PREMIUM USERS TAB

The Premium Users tab shows each user consuming Premium Services. It is color-coded blue for Users. It provides the same columns as Basic users (above), but also includes a column showing the assigned Billing Bundle (if any), which only applies to Premium users.

License & Optional Service Report - Premium Users										
Enterprise: PhoneIntLab -- Plano Phone Integration Lab										OM indicates O
Group: PhoneIntMain -- Phone Integration Main										VMail User iden
Version: All Departments										
Date: 06/29/2022 10:39:28										
Version: LOSR-107										
Last Name	First Name	Userid	Virtual User Type	Billing Bundle Name	OM	SU	Create Date	VMail User	VM Trans (Muta	
Audi	Martin	9754441001@cslab.mitel.com			X		09/12/2018 13:10:46	X		
Bugatti	Leo	9754441002@cslab.mitel.com			X		09/12/2018 13:12:02	X		

Figure 14 - License & Optional Service Report – Premium Users Tab

BASIC TRUNK USERS TAB

The Basic Trunk Users tab shows each user that is a Trunk User. This tab is color-coded blue for Users.

A trunk user is like a normal user, but instead of being assigned to a phone device, it is assigned to a trunk group. The VMail User column identifies users that have the Voice Messaging service assigned.

License & Optional Service Report - Basic Trunk Users									
Enterprise: Bulk Provisioning -- Lab Val, Inc							OM indicates OpE		
Group: Group_G -- Group, Gewel							VMail User identifie		
Version: All Departments									
Date: 03/04/2021 00:06:27									
Version: LOSR-105									
Last Name	First Name	UserId	OM	SU	Create Date	VMail User	ERS Enabled	Phone Number	
LTest16	FTest16	9722221016@labval.mitel.com	X		11/09/2020 10:39:04			972-222-1016	
TrunkUser	TrunkUser	9722221087@labval.mitel.com	X		02/18/2021 04:27:15			972-222-1087	

Figure 15 - License & Optional Service Report – Basic Trunk Users Tab

BUSINESS TRUNK USERS TAB

The Business Trunk Users tab shows each user that is a Trunk User. This tab is color-coded blue for Users. It provides a column to identify users that are assigned:

- Voicemail service
- Basic services
- Premium services

A trunk user is like a normal user, but instead of being assigned to a phone device, it is assigned to a trunk group. If assigned one or more basic services, the Basic column will be marked with "X". If assigned one or more premium services, the Premium column will be marked. If the trunk user is assigned no services, the Basic or Premium box will not be marked. The VMail User column identifies users that have the Voice Messaging service assigned.

License & Optional Service Report - Business Trunk Users									
Enterprise: Bulk Provisioning -- Lab Val, Inc							OM indicates OpEasy Mana		
Group: Group_G -- Group, Gewel							VMail User identifies a user		
Version: All Departments									
Date: 03/04/2021 00:06:27									
Version: LOSR-105									
Basic indicates the trunk use									
Premium indicates the trunk									
Last Name	First Name	UserId	OM	SU	Create Date	VMail User	ERS Enabled	Basic	Premium
LTest17	FTest17	9722221017.tu@labval.mitel.com	X		11/09/2020 10:39:05				

Figure 16 - License & Optional Service Report – Business Trunk Users Tab

VMONLY USERS TAB

The VMOonly Users tab shows each user that is assigned the Voice Messaging User or Voice Messaging User – Video service, and optionally the Internal/External Calling Line ID Delivery service, as well as any optional services. It is color-coded blue for Users.

License & Optional Service Report - VMOonly Users										
Enterprise: clearspanlab -- Clearspan LAB										Shows users with
Group: sales organization -- Sales Organization										and optionally the
Department: All Departments										OM indicates OpE
Date: 09/28/2020 05:02:40										
Version: LOSR-105.2										
Last Name	First Name	Userid	OM	SU	Create Date	Phone Number	Extension	Auto Attendant Menu Count		

Figure 17 - License & Optional Service Report – VMOonly Users Tab

This tab shows each user that is assigned Voice Messaging Only. The Voice Messaging Only user license requires a user to have the Voice Messaging service and/or the Video Messaging service. In addition, the user can have any Optional Services, as well as either or both of the Internal Calling Line ID Delivery or External Calling Line ID Delivery services. If the user is assigned any services other than these, then a Basic or Premium license is required.

NO LICENSE USERS TAB

The No License Users tab shows each Virtual User (Service Instance) that has not been assigned user services. It is color-coded blue for Users. All users in the No License category are Virtual Users. They are presented on this tab only if they have been assigned no services. Virtual Users with no services do not consume a license and so are not chargeable.

License & Optional Service Report - No License Users										
Enterprise: clearspanlab -- Clearspan LAB										
Group: sales organization -- Sales Organization										
Department: All Departments										
Date: 09/28/2020 05:02:40										
Version: LOSR-105.2										
Last Name	First Name	Userid	Virtual User Type		OM	SU	Create Date	VMail User		
Group_Page_1		6063338900@clearspanlab.com	Group Paging				08/03/2020 01:21:33			
sales		CSLab_sales@clearspanlab.com	Clearspan Anywhere Portal				09/26/2020 13:51:30			
sales organization-		321108706-354700534-Default@clear	Collaborate Bridge							

Figure 18 - License & Optional Service Report – No License Users Tab

OPTIONAL SERVICES TAB

The Optional Services tab lists all Optional Services and provides the number of users assigned to each. It is color-coded green for Services.

- Optional services are not included in the Basic or Premium packages.
- (Unsupported) indicates the service is not part of the standard offering.
- A row is provided for each Optional Service along with a count of times used. If an optional service has been assigned that is not included in a Clearspan sales offering, then the service name appears at the bottom of this list and is followed by "(Unsupported)".
- If there is more than one group in an Enterprise, the Group Totals columns appear, with a breakdown of the total across the groups in the Enterprise. If there is only one group in an Enterprise, the Group Totals columns are not displayed; the Total column contains the Total for the only group, the same as the Enterprise.

License & Optional Service Report - Optional Services		
Enterprise:	clearspanlab -- Clearspan LAB	
Group:	sales organization -- Sales Organization	
Department:	All Departments	
Date:	09/28/2020 05:02:40	
Version:	LOSR-105.2	
Service Name	Total	Support User Total
Call Center User - Basic	4	
Call Center User - Standard	4	
Call Center User - Premium	4	
Call Recording	4	
Calling Line ID Blocking Override	4	
Clearspan Agent	4	
Clearspan Supervisor	4	
Clearspan Communicator Desktop - Basic	4	
Clearspan Communicator Desktop - Audio	4	

Figure 19 - License & Optional Service Report – Optional Services Tab

OPEASY LICENSES TAB

The OpEasy Licenses tab reports quantities of users, third party phones, and licenses allocated for the Enterprise.

License & Optional Service Report - OpEasy Licenses	
Enterprise: clearspanlab -- Clearspan LAB	
Date: 09/28/2020 05:02:40	
Version: LOSR-105.2	
OpEasy License Information	Total
Current Clearspan User Count	0
User Licenses Allocated	10
User Licenses Available	10
Current Clearspan 3rd Party Phone Count	0
3rd Party Phone Licenses Allocated	10
3rd Party Phone Licenses Available	10

Figure 22 - License & Optional Service Report – OpEasy Licenses Tab

VIRTUAL ON-NET EXTENSIONS TAB

The Virtual On-Net Extensions tab lists configured Virtual On-Net Enterprise Extension users. Virtual On-Net Enterprise Extensions do not use a license directly, so they are not shown in the totals on the User Licenses tab.

License & Optional Service Report - Virtual On-Net Extensions						
Enterprise: clearspanlab -- Clearspan LAB						
Group: sales organization -- Sales Organization						
Department: All Departments						
Date: 09/28/2020 05:02:40						
Version: LOSR-105.2						
Last Name	First Name	Phone Number	Extension	Virtual On-Net Call Type	Group ID	Group Name

Figure 23 - License & Optional Service Report – Virtual On-Net Extensions Tab

REPORT ERRORS TAB

This tab of the License report is for Report Errors. In this example, an error was generated during report processing. This error flags that an unsupported service has been assigned. Services that Clearspan doesn't support should be unassigned, and this report will assist in that cleanup.

License & Optional Service Report - Report Log	
Enterprise:	Bulk Provisioning -- Lab Val, Inc
Group:	Group_G -- Group, Gewel
Department:	All Departments
Date:	02/25/2021 08:08:27
Version:	LOSR-105
Report Errors	(List of error messages encountered during processing)
	Error: Meet Me Conference Port Allocation for Enterprise Bulk Provisioning is set to Unlimited!
	Error: Meet Me Conference Port Allocation for Enterprise: Bulk Provisioning, Group: Group_G is set to Unlimited
Report Warnings	(List of Warning messages encountered during processing)
	Error: An unsupported service (Sametime Connector) has been assigned to User 9722221002@labval.mitel.com
	Error: An unsupported service (UC-Connect) has been assigned to User 9722221002@labval.mitel.com (Enterpr
	Error: An unsupported service (Conference Room) has been assigned to User 9722221002@labval.mitel.com (E

Figure 24 - License & Optional Service Report – Report Errors Tab

REGISTRATION REPORT

The Clearspan Registration Report provides a list of users assigned to each phone device and the status of the SIP registrations for each. Mobile Devices will display the Push Notification status. The Registration Report contains the following tabs.

- **Phone Devices** tab – a list of devices, registration information, and registration status.
- **Report Errors** tab – any errors that may have been found during processing.

You can limit the report to include only those phone devices that are registered, those that are unregistered, those that have no Users assigned, or any combination thereof, by selecting the check boxes.

Clearspan Registration Report

Lists the users assigned to each phone device and the status of the SIP registrations for each.
 Press 'Start Report' to begin report processing. To schedule a report for later processing, press 'Schedule Report'.
 Press 'Retrieve Report' to download the current completed report. Press 'E-mail Report' to E-mail the current completed report.

OK Scheduling

Report Settings

Enterprise: (Select Enterprise) ▼

Group: (Select Group) ▼

Report Version: RR-102

Include Registered Devices
 Include Unregistered Devices
 Include Devices without Users

Send E-mail Notification To: randy.craig@clearspancloud.com

Attach Registration Report

Figure 25 - Registration Report – Filter by Registration Status

PHONE DEVICES TAB

The Phone Devices tab shows devices within a single Group or within all Groups in an Enterprise. Because each User assigned to a device register separately, the report includes a line for each User assigned to the Phone Device (Device User). It is color-coded teal for Devices.



Note: The Registration Report "Session Border Controller Registration Status" is only supported on systems with Sonus SBC devices. And the Sonus SBC devices must be defined in System Settings.

The **Phone Devices** tab provides the following information.

- Device Name
- Device Level
- OM (OpEasy Managed Device)
- SD (Support Device)
- Line Position
- SCA (Shared Call Appearance)

- Group ID
- Group Name
- Last Name
- First Name
- UserId
- Phone Number
- OM (OpEasy Managed UserId)
- SU (Support User)
- Registration Status
- Registration Time Remaining
- Model/Version (SIP – User Agent)
- SBC Registration Status
- Registration Created
- Registration Expired
- Refresh Time (Seconds)
- Registering SBC
- Device Type
- LinePort
- MAC Address
- Physical Location
- ERL Record Name

Registration Report - Phone Devices														
Enterprise: clearspanlab -- Clearspan LAB										OM indicates OpEasy Managed User; SD indicates Support Device; SU indicates Support User				
Group: sales organization -- Sales Organization										Red: Unregistered				
Date: 09/29/2020 05:36:59														
Version: RFP-102.1														
Device Identification				Registration Identification								System L		
Device Name	Device Level	OM	SD	Position	SC	Group ID	Group Name	Last Name	First Name	UserId	Phone Number	OM	SU	Registrat Status
Mitel Dect	Group			1		sales organizatio	Sales Organization	Flexi Seating 1	Flexible Seating	6063338921@clearspanlab.com	6063338921			Unregister
MitelDect112-6063338903	Group			1		sales organizatio	Sales Organization	Sales	User3	6063338903@clearspanlab.com	6063338903			Unregister
MitelDECT6xxDMS-6063338902	Group			1		sales organizatio	Sales Organization	Sales	User2	6063338902@clearspanlab.com	6063338902			Unregister
test trunk	System			0		sales organizatio	Sales Organization	Sales	User1	6063338901@clearspanlab.com	6063338901			Unregister

Figure 26 - Registration Report – Phone Devices Tab

REPORT ERRORS TAB

This tab of the report is for Report.

Registration Report - Report Log	
Enterprise:	Bulk Provisioning -- Lab Val, Inc
Group:	Group_G -- Group, Gewel
Date:	02/25/2021 08:24:06
Version:	RR-102
Report Errors	(List of error messages encountered during processing)
Report Warnings	(List of Warning messages encountered during processing)

Figure 27 - Registration Report – Report Errors Tab

SYSTEM USER AND SERVICES REPORT

The System User and Services Report provides a list of all normal and virtual users, and all services assigned to those users in CSV format. Click **Retrieve Report** to download the CSV file, and open with Excel for easier readability.

This report is useful for administrators who want to execute a single system-wide report that contains all users in the system without the need to run the Inventory Report for hundreds of enterprises. And whereas the License & Optional Services Report only lists Optional services, this report includes a complete list of user services assigned to each user.



Note: Only Solution Resellers and above can generate the System User and Services Report.

The Report can be executed for a specific group, enterprise, or for the whole system (Solution Resellers and above only).

The Enterprise Administrators can execute the report for a specific group, or all groups within an enterprise.



Note: If this report is executed for the entire system, it may need to be divided into multiple files in order to open the report in Excel, as there is a limit of 1M rows in Excel.

System User & Services Report - Users (OM indicates OpEasy Managed User; SU indicates Support User)										
Enterprise clearspanlab -- Clearspan LAB										
Group:	sales organization -- Sales Organization									
Date:	09/28/2020 05:49:54									
Version:	SUSR-102.1									
Last Name	First Name	User ID	Virtual User	License	OM	SU	Create Date	Phone Number	Extension	Enterprise
Flexi Seating 1		60633389	Flexible Se	Basic	No	No	#####	+1-606333	8921	clearspan
Flexi Seating 1		60633389	Flexible Se	Basic	No	No	#####	+1-606333	8921	clearspan
Flexi Seating 1		60633389	Flexible Se	Basic	No	No	#####	+1-606333	8921	clearspan

Figure 28 - System User and Services Report

The System User and Services Report contains the following columns:

- Last Name
- First Name
- User ID
- Virtual User Type (service user such as Auto Attendant)
- License (Basic, Premium, and so on. No License indicates a Virtual User with no services assigned)
- OM (indicates an OpEasy managed user)
- SU (indicates a Support user)
- Create Date
- Phone Number

- Extension
- Enterprise ID
- Enterprise Name
- Group ID
- Group Name
- Department
- Account ID (assigned in OpEasy if used)
- Service Name (name of the user service assigned)
- Service Type (license type for the service, such as, Base for any user, Optional for any user, or used with Basic or Premium license)

The CSV file contains two separate sections: the Users section and the Report Errors section, with a blank line between the two sections. The Users section reports the users in the selected enterprises and groups. The Report Errors section identifies and displays errors and warnings that occurred during creation of the report.

USER INFORMATION REPORT

The User Information report provides User password expiration information like Password Expiration in days/ Password Expired, User Password which never expires details and User login disabled information for each of the User in Group/Enterprise based on the wrong login attempts.

This User Information report contains the following columns in the Password Expiration tab:

- User ID
- Group
- Department
- User Login Disabled
- User Password Expiration Days
- User Password Does Not Expire



Note: The User Information Report is accessible for all the Users.

User Information Report - Password Expiration				
Enterprise: Bulk Provisioning -- Lab Val, Inc				
Group: All Groups				
Department: All Departments				
Date: 03/16/2021 08:48:21				
Version: UIR-101				
User ID	Group	Department	User Login Disabled	User Password Days
3124485502@labval.mitel.com	Group_Pronto		False	Password expire
3124485503@labval.mitel.com	Group_Pronto		False	Password expire
3124485504@labval.mitel.com	Group_Pronto		False	Password expire
3124485505@labval.mitel.com	Group_Pronto		False	Password expire
3124485601@labval.mitel.com	Group_H		False	Password expire
3124485602@labval.mitel.com	Group_H		False	Password expire
3124485603@labval.mitel.com	Group_H		False	Password expire
3124485604@labval.mitel.com	Group_H		False	Password expire
3124485605@labval.mitel.com	Group_H		False	Password expire
9722221001@labval.mitel.com	Group_G	Dept_1 (Group)	False	Password expire
0722221002@labval.mitel.com	Group_G	Dept_1 (Group)	False	Password never

Figure 29 - User Information Report

VOICE MAIL AUDIT REPORT

Voice Mail Audit Report provides information regarding voicemail configuration of Users and Virtual Users (Auto Attendant, Hunt Group and Call Centre). This will enable our customers to audit users that have configured with Voice Mail CC and Voice Mail Forwarding enabled. The Voice mail audit report can be scheduled.

Only Group Administrators and above can generate Voice Mail Audit

Reports. To generate a voice mail audit report:

1. Click **Reporting** on OpEasy.
2. Click Voice Mail Audit Report. The Voice Mail Audit Report page appears.
3. Select the Enterprise, Group and Department.
4. Select the **Notification** and the **Email** option to receive the report as an email attachment.
5. Click Start Report.
6. Click **OK**.

Voicemail Audit Report - Users						
Enterprise: Bulk Provisioning -- Lab Val, Inc						
Group: Group_G -- Group, Gewel						
Department: All Departments						
Date: 09/02/2020 01:16:46						
Version: VMAR-102.1						
User ID	Group	Department	Voicemail Enabled	Forward Voice Mail	Send CC Email	Virtual User Type
111111@labval.mitel.com	Group_G		False	False	False	Call Center - Premium
111112@labval.mitel.com	Group_G		False	False	False	Call Center - Premium
111113@labval.mitel.com	Group_G		False	False	False	Call Center - Premium
111114@labval.mitel.com	Group_G		False	False	False	Call Center - Premium

Figure 30 - Voice Mail Audit Report

The Report displays the following data:

- Clearspan UserID
- Group
- Department
- Voicemail Enabled
- Forward Voice Mail
- Send CC Mail
- Virtual User Type

VOICE MAIL USAGE REPORT

The Voice Mail Usage Report provides the voice mail information of users aggregated based on Enterprise, Group and Department.

Each tab of the report contains a list of all accounts in Surgemail associated with a user in the requested group(s). The accounts with activity in the specified time (previous day, last 7 days, last 30 days) will be listed in the first few rows of the worksheet with their activity data. The rest of the accounts with no activity in the requested time will be added to the report with content populated only in the following columns: Surge Mail Account, Group, Department, Size Used / Quota, and Minutes Used.

Only Group Administrators and above can generate Voice Mail Usage Report to generate a voice mail usage report:

1. Click **Reporting** on OpEasy.
2. Click Voice Mail Usage Report. The Voice Mail Usage Report page appears.
3. Select the Enterprise, Group and Department.
4. Select the duration for the report from the **Report for** drop-down box. The report can be generated for the previous day, last 7 days and Last 30 days.
5. Select the **Notification** and the **Email** option to receive the report as an email attachment.
6. Click Start Report.
7. Click **OK**.

Voicemail Usage Report - Last 7 days					
Enterprise: CallCenterTesting -- CC Testing					
Group: CallCenter -- CallCenterGroup					
Department: All Departments					
User: All Users					
Report Type: Last7Days					
Date: 02/19/2020 02:37:43					
Version: VMUR-102					
Total Users: 16					
Clearspan User	User Name	Surge Mail Account	Group	Department	Msg Rcv
5733641000@cctesting.aastra.com	00Test 00Tester	5733641000@tb20.aastra.com	CallCenter		
9722221210@cctesting.aastra.com	FTest10 LTest10	9722221210@tb20.aastra.com	CallCenter	Shop, Toys & Tre	
9722221219@cctesting.aastra.com	FTest19 LTest19	9722221219@tb20.aastra.com	CallCenter	Classes (Group)	

Figure 31 - Voice mail Usage Report

The Report displays the following data:

- Clearspan Users
- Clearspan User Name
- Surge Mail Account
- Group
- Department
- Message Received
- Size of Received Messages in MB

- Message Sent
- Size of sent messages in MB
- Last connected details
- Count of the Average Messages Received
- Count of the Average Messages Sent
- Size of the Average Message Received
- Size of the Average Message Sent
- Mailbox Size Used/Quota in MB Used (The amount of the quota being used and the actual quota amount for the account)
- Duration of the Voicemail in minutes

The **Report Errors** tab displays any errors and warnings during processing.



Note: For G.711 and G.729 codecs, the mailbox size is computed in minute equivalents, basically, adding each email's size (minus 384 bytes per message to account for MIME headers and email text), dividing the total size by exactly 333220 (roughly the number of bytes for the ADPCM audio samples in one minute of audio, BASE64 encoded, as attached by the Media Server into emails).

For G.722 and other high bandwidth codecs, the Media Server encodes the attachments using 16kHz 16-bit PCM, at 256Kbps (instead of the 32 Kbps of dvi-adpcm), hence it consumes 8 times more disk space per minute of recorded audio. This discrepancy will impact the accuracy of the calculated 'storage time' in this report.

SCHEDULING REPORTS

For all procedures that follow, the Inventory Report and System XML Report are used as examples.

CREATING A REPORT SCHEDULE

You can schedule any report to run at a specific time and date.

- 1. Click **Reporting** from the menu tree or click on the **Reporting** link on the main page.
- 2. Select the report you wish to schedule in the menu tree or select the report from the Reporting page.
- 3. Select the **Enterprise**, the **Group**, and the **Department** for which you want to schedule the report.
- 4. Click the **Notification** check box to receive E-mail notifications.
- 5. Change the file names, if desired. You can use the tags provided for organization of the files. See for more information.
- 6. Click **Schedule Report**. The Schedule Request: Registration Report page displays.

Scheduling Request: Registration Report
Setup a request to run a Registration Report on a pre-defined schedule.

Scheduling Request
Scheduled Task: Registration Report
Request ID:
Creating OpEasy Admin: randycraig
Request Creation Time:
Enterprise: AcmeCorp -- Road Runner's Acme
Group: (All Groups)

Schedule
Schedule:

Start Time: (Date and time, in 'MM/DD/YYYY HH:MM' format. Example: 11/19/2012 21:00)

E-mail Notification for Successful Completion
 E-mail notification

Figure 32 - Scheduling Request Page



Note: Multiple reports for Inventory Report, License and Optional Services Report, Registration Report, User Information Report and Voice Mail Audit Report can be run using Multiple Enterprise option. The Scheduling Requesting page displays a list of all the enterprises selected in Multiple Enterprises separated by ‘:.’

- 7. In the Schedule section, choose the Schedule type from the drop-down list.
- 8. If you selected Run Once, enter the Start Time: The date, a space, and the time (hour and minute).

Figure 33 - Schedule Run Once

If you selected Repeated:

- Enter the **Initial Start Time:** The date, a space, and the time (hour and minute).
- Enter the **Repeat Run:** The Import runs every (number of minutes).
- Enter the **Maximum Number of Runs.** Leave the box blank or enter 0 if there is no limit.

Figure 34 - Schedule Repeated

If you selected Hourly:

- Enter the Start After time: The date, a space, and the time (hour and minute).
- Enter an Hourly Schedule. A list of minutes within the hour. Example: 00:15, 00:45. The import runs at 15 minutes, and another at 45 minutes.
- Enter the Maximum Number of Runs. Leave the box blank or enter 0 if there is no limit.

Figure 35 - Schedule Hourly

If you selected Daily:

- Enter the Start After time: The date, a space, and the time (hour and minute).
- Enter the Daily Schedule. See the following example.
- Enter the Maximum Number of Runs. Leave the box blank or enter 0 if there is no limit.

Schedule

Schedule: Daily

Start After: (Date and time, in 'MM/DD/YYYY HH:MM' format. Example: 11/19/2012 21:00)

* Daily Schedule:

(List of times, in 'HH:MM' format, separated by commas or blanks. Example: 03:00, 21:30)

Maximum Number of Runs: (Blank or 0 for no limit)

Figure 36 - Schedule Daily

If you selected Weekly:

- Enter the Start After time: The date, a space, and the time (hour and minute).
- Enter the Weekly Schedule. See the following example.
- Enter the Maximum Number of Runs. Leave the box blank or enter 0 if there is no limit.

Schedule

Schedule: Weekly

Start After: (Date and time, in 'MM/DD/YYYY HH:MM' format. Example: 11/19/2012 21:00)

* Weekly Schedule: Recurs every weeks on:

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

at the following times of the day:

(List of times, in 'HH:MM' format, separated by commas or blanks. Example: 03:00, 21:30)

Maximum Number of Runs: (Blank or 0 for no limit)

Figure 37 - Schedule Weekly

If you selected Monthly:

- Enter the Start After time: The date, a space, and the time (hour and minute).
- Enter the Monthly Schedule. See the following example.
- Enter the Maximum Number of Runs. Leave the box blank or enter 0 if there is no limit.

Schedule

Schedule: Monthly

Start After: (Date and time, in 'MM/DD/YYYY HH:MM' format. Example: 11/19/2012 21:00)

Months:

January February March April May June

July August September October November December

on the following days of each month (Days separated by commas or blanks. Use 'Last' for last day of the month. If entered day is valid and > max allowed for the selected month, it gets scheduled for the max allowed day):

at the following times of the day:

(List of times, in 'HH:MM' format, separated by commas or blanks. Example: 03:00, 21:30)

Maximum Number of Runs: (Blank or 0 for no limit)

Figure 38 - Schedule Monthly

9. Click Start Report. The Status section appears on the page. The schedule is saved, and the report will run at the appropriate time.
10. Click OK to exit the page.

ADDING AN FTP DESTINATION

You can add an FTP destination to receive the scheduled report. To add an FTP destination for the Report file:

1. Click Reporting from the menu tree or click on the Reporting link on the main page.
2. Select the report you wish to schedule in the menu tree or select the report from the Reporting page.
3. Select the Enterprise, the Group, and the Department for which you want to schedule the report.
4. Click Schedule Report. The Scheduling Request page displays.

FTP Results

FTP Registration Report

Add FTP Destination

Address	User	File Path	File Name	Zip FTP File	Transport	Edit
No FTP destinations exist.						

Figure 39 - Add FTP Destination

5. Click Add FTP Destination.

The Scheduling Request: FTP Destination Add page displays.

Scheduling Request: FTP Destination Add

Add an FTP destination. *Pressing OK retains but does not save entered changes. To save the changes, press OK or Apply on the subsequent page.

OK* Cancel Check Destination

FTP Destination

* Address:

* User:

* Password:

File Path:

* File Name:

Tags useful in the File Name: {Id}, {Enterprise}, {Group}, {Department}, {RunCount}, {Time}, {StartTime}, {EndTime}, {Admin}

Transport: FTP

Zip FTP File

Figure 40 - Scheduling Request - FTP Destination Add Page

6. Enter the IP Address of the destination server or valid host name, User name and Password for log on, and the File Path.
7. Enter the File Name for the report results. Note the filename in the example contains substitution tags. This method causes a new file to be created each time the report is run; the report results are not overwritten.
8. Choose FTP or SFTP (Secure FTP) for the Transport protocol.
9. Click Zip FTP File to receive the report in the Zip format.
10. Click **Check Destination** to verify that the credentials are valid immediately rather than discovering it after a failure.
11. Click **OK**. The Report Scheduling page displays, and the new information displays in the list.
12. Click **OK** again.

MODIFYING OR DELETING AN FTP DESTINATION

To modify or remove an FTP destination for the Report file:

1. Click the **Edit** link on the row of the destination on the Scheduling Request page.



Figure 41 - Scheduling Request: FTP Destination Edit

The Scheduling Request: FTP Destination Modify page displays.

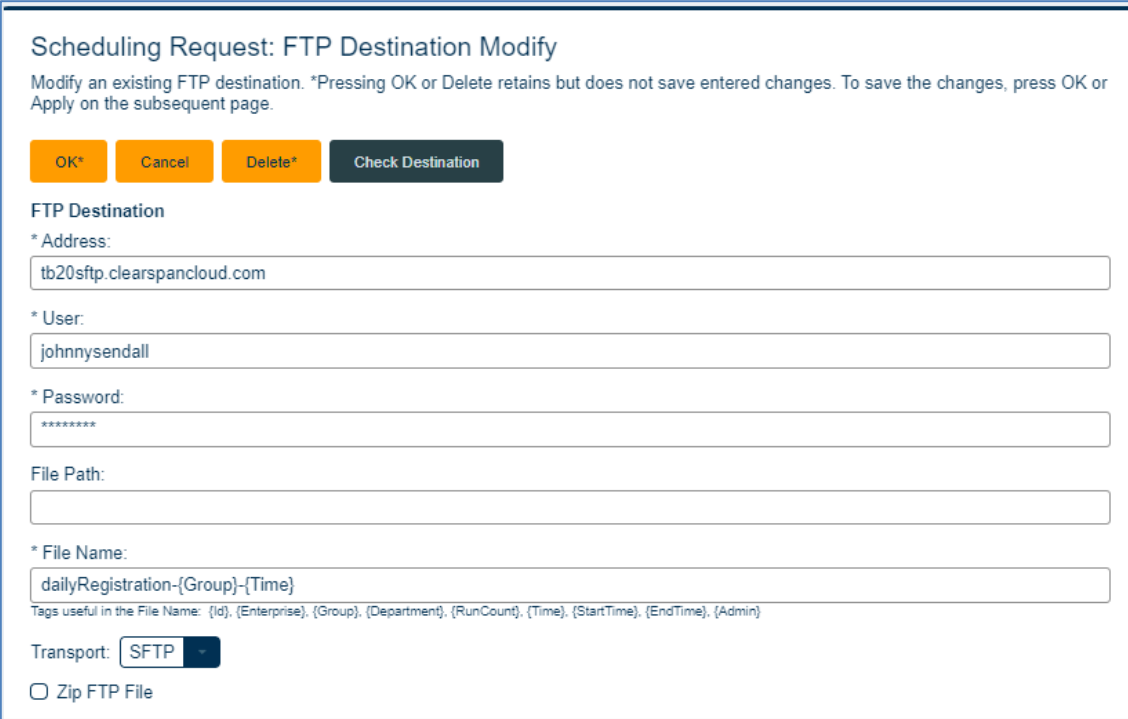


Figure 42 - Report Scheduling: FTP Destination Modify Page

2. Make any desired changes or click **Delete** to remove the destination.
3. Click **OK**. The Report Scheduling page displays and the new information displays in the list.
4. Click **OK** again.

VIEWING REPORT SCHEDULES

The Scheduling page displays a list of reports that have been scheduled to run now or on a pre-defined schedule.

With this page you can:

- View the status of a scheduled report.
- Edit a schedule request.
- View the results of the report that has run.
- Delete a schedule.
- From the main menu, click Reporting.
- Select Scheduling. The Scheduling page appears as shown in below.

The screenshot shows the 'Scheduling' page interface. At the top, there are buttons for 'OK', 'Cancel', 'Apply', and 'Refresh'. Below these are filter fields for 'Scheduled Task' (set to '(All Scheduled Tasks)'), 'Enterprise' (set to 'SystemValidation -- System Validation'), 'Group' (set to 'DirectAccess -- DA-DIRECT-PUBLIC'), and 'Department' (set to '(All Departments)'). The 'Administrator' is set to 'randycraig'. Under 'Displayed Requests', there are radio buttons for 'All' (selected), 'Active / Waiting', 'Active', 'Waiting', 'Stopped', and 'Finished'. The 'Last Refresh' is '07/27/2023 12:03:54'. A table titled 'Scheduling Requests' contains the following data:

Delete	Request ID	Task	Enterprise ID	Enterprise Name	Group ID	Group Name	Department	Schedule	Admin	Request Status	Last Run Time	Last Run Results	...	Edit
<input type="checkbox"/>	167323	Inventory Report	SystemValidation	System Validation	DirectAccess	DA-DIRECT-PUBLIC	(All Departments)	Now	randycraig	Finished	07/13/2023 14:28:21	Completed		Results Edit
<input type="checkbox"/>	166711	License Report	SystemValidation	System Validation	(All Groups)		(All Departments)	Now	randycraig	Finished	06/07/2023 12:36:38	Completed (with Errors)		Results Edit
<input type="checkbox"/>	166102	System User & Services Report	(All Enterprises)		(All Groups)			Run Once	randycraig	Finished	05/03/2023 11:30:01	Completed (with Warnings)		Results Edit

At the bottom of the table, it says '- End of Scheduling Requests -'.

Figure 43 - Scheduling Page



Note: All scheduled service requests with a Never Started status are deleted after 30 days. All scheduled service requests with a Finished, Stopped, or Terminated status are deleted after 90 days.

EDITING A SCHEDULE

1. From the main menu, click **Reporting**.
2. Select **Scheduling**.
3. Click the **Edit** link at the far right of the row to open the Scheduling Request page.
 - Click **Stop** to stop the schedule from running.
 - Click **Refresh** to see progress messages of the report.
 - Change the E-mail Notification parameters, if needed.
 - Change any available parameters of the schedule.
4. Click **Apply**.
5. Click **OK**.
6. Click the **Refresh** button. The schedules will refresh.

DELETING A SCHEDULE

There are two ways to delete a schedule: from the main Scheduling page or from the Scheduling Request page.

DELETE A SCHEDULE FROM THE MAIN SCHEDULING PAGE

1. Check the **Delete** box next to the schedule(s) to delete.
2. Click **Apply** or **OK**. The schedule(s) are deleted from the list.

The screenshot shows the 'Scheduling' interface. At the top, there are buttons for 'OK', 'Cancel', 'Apply', and 'Refresh'. Below these are filter dropdowns for 'Scheduled Task', 'Enterprise', 'Group', 'Department', and 'Administrator'. A 'Displayed Requests' section has radio buttons for 'All', 'Active / Waiting', 'Active', 'Waiting', 'Stopped', and 'Finished'. The 'Scheduling Requests' table has columns: Request ID, Task, Enterprise ID, Enterprise Name, Group ID, Group Name, Department, Schedule, Admin, Request Status, and Last Refreshed. A red box highlights the 'Delete' column, which contains checkboxes. The first three rows have checkboxes checked.

Delete	Request ID	Task	Enterprise ID	Enterprise Name	Group ID	Group Name	Department	Schedule	Admin	Request Status	Last Refreshed
<input checked="" type="checkbox"/>	167323	Inventory Report	SystemValidation	System Validation	DirectAccess	DA-DIRECT-PUBLIC	(All Departments)	Now	randycraig	Finished	07/13
<input checked="" type="checkbox"/>	166711	License Report	SystemValidation	System Validation	(All Groups)		(All Departments)	Now	randycraig	Finished	06/07
<input checked="" type="checkbox"/>	166102	System User & Services Report	(All Enterprises)		(All Groups)			Run Once	randycraig	Finished	05/03

Figure 44 - Delete a Schedule

DELETE A SCHEDULE FROM THE SCHEDULING REQUEST PAGE

Click **Delete** at the top of the page. The Delete Warning displays and the schedule is deleted.



Figure 45 - Delete the Current Report Request

VIEWING SCHEDULED REPORT RESULTS

To review scheduled report results, click on the link in the **Results** column on the main Schedule page, as in the following figure.

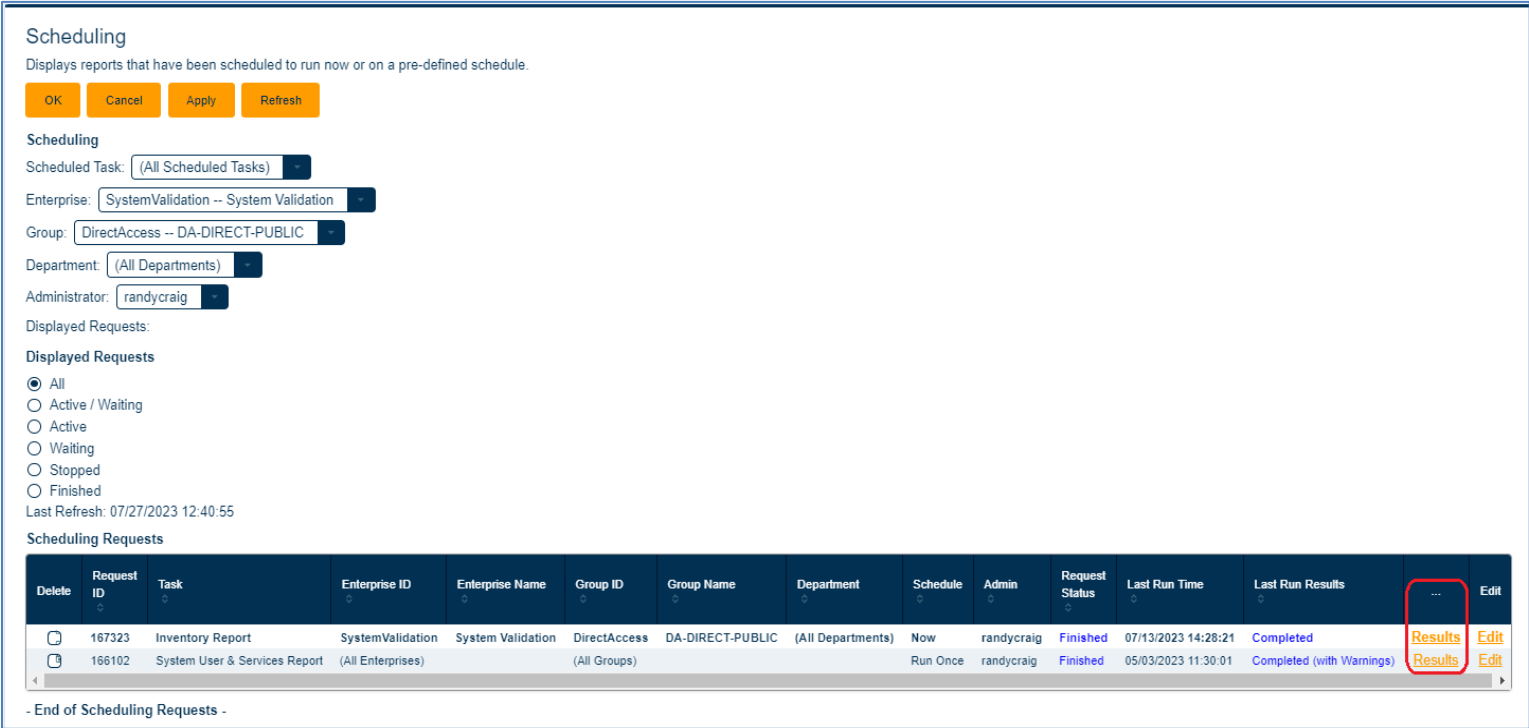


Figure 46 - Results link on Scheduling Page

CALL DETAIL REPORTING (CDR)

The Call Detail Reporting (CDR) application allows searches against CDR records and FTP of CDR records. CDR Manager is available to Solution Resellers and Enterprise Administrators, but not to Group or Department Administrators. CDR Query is available to all users.

RUNNING A CDR QUERY

You can use CDR queries to search call records and display or download the results.

- 1. From the main menu, click **Reporting**.
- 2. Select **CDR** and then **CDR Query**. The **CDR Query** screen displays.

The screenshot shows the 'CDR Query' web interface. At the top, there are three orange buttons: 'OK', 'Scheduling', and 'Customize'. Below these is a horizontal line. The main section is titled 'CDR Query' and includes a sub-header: 'Allows an administrator to search the Call Detail Reporting (CDR) records (creates a spreadsheet for download)'. The interface contains several dropdown menus: 'Enterprise' (set to '(All Enterprises)'), 'Group' (set to '(All Groups)'), 'Department' (set to '(All Departments)'), 'CDR Format' (set to 'Readable'), 'CDR Fields' (set to 'Selected Fields'), and 'Time Zone' (set to '(GMT-05:00) (US) Central Time'). Below the time zone is a note: '(Time Zone affects all entered and displayed times)'. There is also a 'Time Frame' dropdown set to 'Since Yesterday'. A checkbox for 'Send E-mail Notification To: randy.craig@clearspancloud.com' is unchecked, while 'Attach CDR Records' is checked. The 'Attachment File Name' field contains the text: 'CDRRecords_{Enterprise}_{Group}_{Department}_{Id}_{Time}.csv'. Below this is a 'Retrieve File Name' field with the same text and a note: '(Useful tags for File Names: {Id}, {Enterprise}, {Group}, {Department}, {Time}, {StartTime}, {EndTime}, {Admin})'. The 'Report Version' is 'CDRQ-101'. A section for 'Enter CDR Record Search Criteria' includes a dropdown for '(All CDR Records)', a 'Contains:' field, and three orange buttons: '-', '+', and '('. At the bottom, there are two orange buttons: 'Start CDR Query' and 'Schedule CDR Query'. A final note at the bottom reads: '(CDR Query with Search on field prefixed with "*" and long time frame needs to be scheduled)'. The entire interface is enclosed in a blue border.

Figure 47 - CDR Query Page

You can select **Retrieve CDR Records** to open the results of the last query that was downloaded, if one exists in the system for this administrator. Or you can run a new query with the following steps.

3. Select the **Enterprise, Group**, and **Department** if applicable. The choices shown will vary depending on your access level.
4. For **CDR Format** select **Readable** or **Same as CDR Manager**, and for **CDR Fields**, select **All Fields** or **Same as CDR Manager**.
5. Adjust the **Time Zone** if necessary. The CDRs are created in the GMT time zone. Selecting your time zone will make the appropriate adjustments in the date and time fields that are displayed.
6. Choose a **Time Frame** to limit the query. The report is generated faster when it is limited to a specific time frame rather than All CDR Records. Select one of the following options:
 - Since Yesterday
 - Last 7 Days
 - Last 30 days
 - Previous Month
 - Last 2 Months
 - Last 3 Months
 - Last 6 Months
 - Last 12 Months
 - Week Before Last
 - Or select the Starting At, Ending At or Custom Dates option and enter the Time Frame ranges. The Time Frame ranges from the previous year and the current year.
7. Check the Notification box to send a notification to the E-mail address specified.
8. Check the Attachment box to receive a copy of the report in the E-mail.
9. Assign different file names to the Attachment File Name and the Retrieve File Name, if desired, or just use the default names. Customizing file names can help you set file name standardization for file name sorting or displays. See Tags for more information.
10. Use the Enter CDR Record Search Criteria fields to set the search parameters. Choose the type of CDR records to search, or leave the type set to All CDR Records, and enter the criteria for matching.
 - Click the button to add a search condition. Click the button to remove a search condition. For example, adjust the search criteria to look for activity on User Number 97 beginning at 3:12 pm on May 11, 2017. The query will look like the following.

CDR Query

Allows an administrator to search the Call Detail Reporting (CDR) records (creates a spreadsheet for download).

OK **Scheduling** **Customize**

CDR Query

Enterprise: (All Enterprises) ▾

Group: (All Groups) ▾

Department: (All Departments) ▾

CDR Format: Readable ▾

CDR Fields: Selected Fields ▾

Time Zone: (GMT-05:00) (US) Central Time ▾
(Time Zone affects all entered and displayed times)

Time Frame: Since Yesterday ▾

Send E-mail Notification To: randy.craig@clearspancloud.com

Attach CDR Records

Attachment File Name:

Retrieve File Name:

(Useful tags for File Names: {Id}, {Enterprise}, {Group}, {Department}, {Time}, {StartTime}, {EndTime}, {Admin})

Report Version: CDRQ-101

Enter CDR Record Search Criteria: (Search on field prefixed with '*' may take longer to run and may need to be scheduled)

July ▾

28 ▾

2023 ▾

* Answer Time ▾ After: ▾ 7 ▾ - + (

48 ▾

53 ▾

AM ▾

AND ▾ User Number ▾ Contains: ▾ 5432 ▾ - + ()

Figure 48 - CDR Query with Search Criteria

- Click **Start CDR Query** to run the report now and see the status at the bottom of the page or click **Schedule CDR Query** to run the report at a later time. The report starts running, or the report is queued.

Click **Refresh** while the report is running to see status updates.

After the report runs, the Results are shown at the bottom of the page. The Report Details indicate whether the report completed successfully or failed.

- Click **Retrieve CDR Records**. When prompted, click **Open** to open the report spreadsheet.

ID	Record Id	Record Id	Record Id	Date	Record Id	Record Ty	Enterprise	Group ID	Departme	User Num	Direction	Calling Nu	Called Nu	Start Time	User Time	Route	Network (Acce
1	Enterprise All Enterprises																
2	Groups: All Groups																
3	Departme All Departments																
4	Time Zone (GMT-06:00) (US) Central Time																
5	Time Fran Last 30 Days																
6																	
7	ID	Record Id	Record Id	Date	Record Id	Record Ty	Enterprise	Group ID	Departme	User Num	Direction	Calling Nu	Called Nu	Start Time	User Time	Route	Network (Acce
8		Start															
9	41816341	4314926	000AF757I	1/23/2017 15:46	0-060000	Interim	AastraCan	EM4550			+1-905-33: Terminati	+1-905-33: +1-905-33:		1/23/2017 15:46	0-050000	Group	BW1
10	41816343	4314927	000AF757I	1/23/2017 15:46	0-060000	Interim	AastraCan	EM4550			+1-905-33: Originatin	+1-905-33: +1-905-33:		1/23/2017 15:46	0-050000	Group	45a0
11	41816345	4314928	000AF757I	1/23/2017 15:46	0-060000	Normal	AastraCan	EM4550			+1-905-33: Terminati	+1-905-33: +1-905-33:		1/23/2017 15:46	0-050000	Group	BW1
12	41816347	4314929	000AF757I	1/23/2017 15:46	0-060000	Normal	AastraCan	EM4550			+1-905-33: Originatin	+1-905-33: +1-905-33:		1/23/2017 15:46	0-050000	Group	45a0
13	41816349	4314930	000AF757I	1/23/2017 15:46	0-060000	Interim	AastraCan	EM4550			+1-905-33: Terminati	+1-905-33: +1-905-33:		1/23/2017 15:46	0-050000	Group	BW1
14	41816351	4314931	000AF757I	1/23/2017 15:46	0-060000	Interim	AastraCan	EM4550			+1-905-33: Originatin	+1-905-33: +1-905-33:		1/23/2017 15:46	0-050000	Group	26d0
15	41816353	4314932	000AF757I	1/23/2017 15:46	0-060000	Normal	AastraCan	EM4550			+1-905-33: Terminati	+1-905-33: +1-905-33:		1/23/2017 15:46	0-050000	Group	BW1
16	41816355	4314933	000AF757I	1/23/2017 15:46	0-060000	Normal	AastraCan	EM4550			+1-905-33: Originatin	+1-905-33: +1-905-33:		1/23/2017 15:46	0-050000	Group	26d0
17	41816357	4314934	000AF757I	1/23/2017 15:46	0-060000	Normal	AastraCan	Ontario4			+1-905-33: Terminati	+1-905-33: +1-905-33:		1/23/2017 15:46	0-050000	Group	BW1
18	41816363	4314937	000AF757I	1/23/2017 15:46	0-060000	Normal	AastraCan	Ontario4			+1-905-33: Originatin	+1-905-33: +1-905-33:		1/23/2017 15:46	0-060000	Group	
19	41816365	4314938	000AF757I	1/23/2017 15:47	0-060000	Normal	AastraCan	Ontario4			+1-905-33: Originatin	+1-905-33: +1-905-33:		1/23/2017 15:47	0-060000	Group	
20	41816367	4314939	000AF757I	1/23/2017 15:47	0-060000	Interim	AastraCan	Ontario4			+1-905-33: Terminati	+1-905-33: +1-905-33:		1/23/2017 15:47	0-060000	Group	BW1

Figure 49 - CDR Query Report

The filename contains the date and time of the download. The top rows of the worksheet contain the Enterprise, Group, Department, Time Zone, and Time Frame. A header row labels each column. The very last row of the worksheet contains 'End'. The System Administrator can limit the maximum number of records that are processed and the maximum number of days that CDR records are stored.

CUSTOMIZING THE CDR QUERY DISPLAY

You can select which fields to include in the CDR query results. Selections made on this screen affect the display that is returned when a CDR query is run. The bulleted items at the top of the screen describe the customizations that you can make.

- From the CDR Query page, select **Customize**. The CDR Query Customize screen displays.

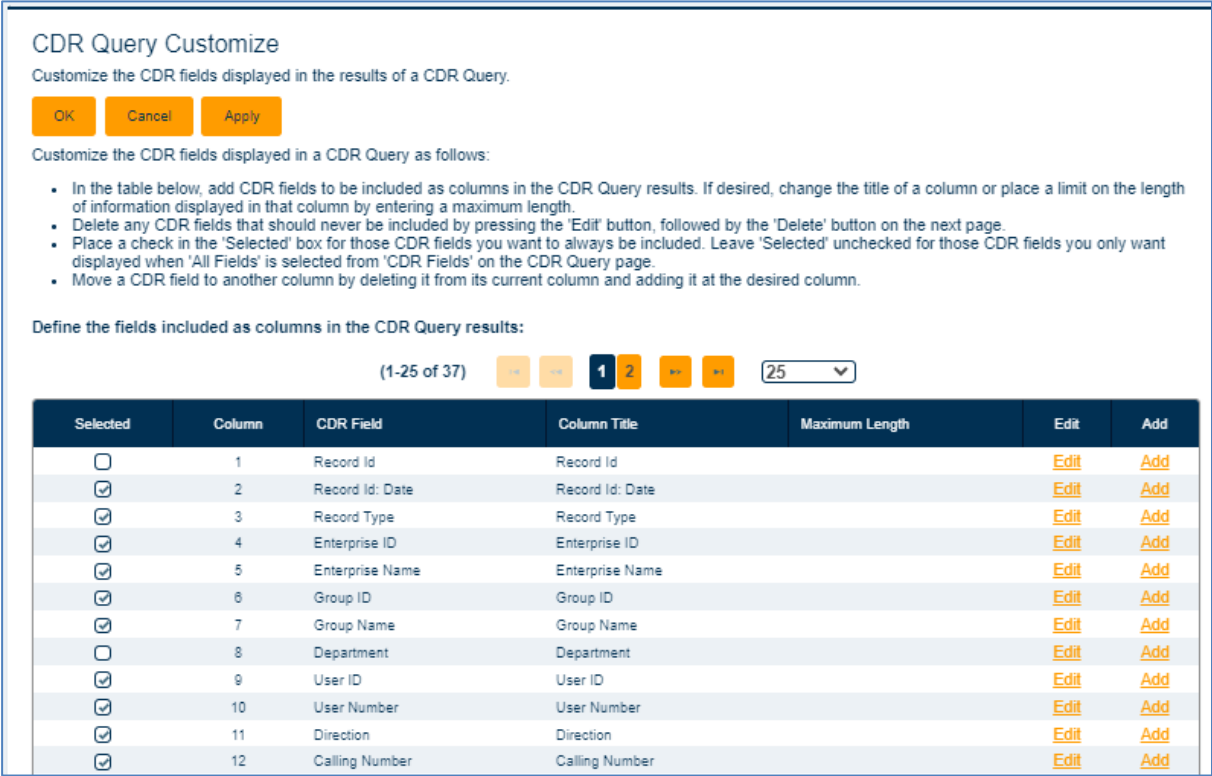


Figure 50 - CDR Query Customize Page

- 2. If you want to add a field to the CDR query display choices, click the Add link in the position where you want the field to appear. The CDR Query Customize: Column Add screen displays.

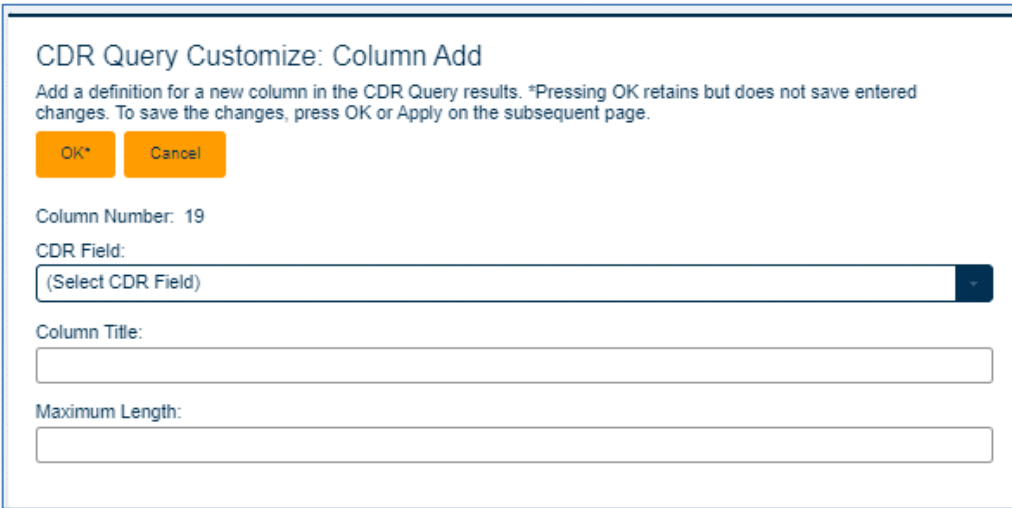


Figure 51 - CDR Query Customize: Column Add Page

- Column Number shows the position that this field will have in the display options.
- Select a CDR Field from the drop-down list. CDR Field is the only required value on this screen. For more information, see CDR Field Definitions used for CDR Query Displays.

- If desired, you can modify the Column Title text that will be displayed for this field's header.
- If desired, you can set a Maximum Length that limits the length of information displayed in that column. If no value is provided, the column width will allow all information to be displayed.
- As indicated by the asterisk, clicking OK retains your changes, but you must click Apply or OK on the subsequent page to save the changes permanently.

To edit a field in the CDR query display options, click **Edit** on the row of the field that you want to modify. The CDR Query Customize: Column Modify screen displays, and you can change the **CDR Field**, **Column Title**, and **Maximum Length** values. Click **Delete** to remove the field from any search result displays.

1. If you want to move a CDR Field to another position, delete it from its current position and add it back at the desired location.
2. Click **OK** when you are done making changes.
3. On the CDR Query page, you can change the **Query Options**. Use the **Query Options** drop-down menu to choose whether to query using the standard CDR Manager output (**Same as CDR Manager**), or to "Readable." Use the **CDR Fields** drop-down menu to choose whether to query **All Fields**, **Selected Fields**, or the **Same as CDR Manager**.

CDR FIELD DEFINITIONS USED FOR CDR QUERY DISPLAYS

The following table provides, in alphabetic order, the CDR Fields that may be used to display CDR Query results. A description and an example data of each field are included in the table.

CDR FIELD	DESCRIPTION	EXAMPLE DATA	CDR MANAGER POSITION
Access Call ID	This field is present when the Application Server reaches a Clearspan user's device. It records the SIP Call ID that allowed the Application Server to make the connection to the device. For originating CDRs, it records the SIP Call ID of the incoming SIP INVITE. For terminating CDRs, it records the SIP Call ID of the outgoing SIP INVITE.	1477660951@192.168.8.7	14
Account Code	The account code, if dialed.	657485	22
Answer Indicator	"Yes", "No" or "Yes-PostRedirection". The latter means the call was answered but at a post-redirection location (such as voice mail or a call forward destination) rather than at the user's phone.	Yes	15
Answer Time	The time when the two-way media connection is established between the user and the other party. This happens when the terminating endpoint answers the call. Answer Time is presented in GMT time zone.	4/12/2013 7:36:41 AM	16
Authorization Code	The authorization code, if dialed.	657485	23
Call Duration	The time between when the destination answers the call until the call is terminated (originator or destination hangs up).	0:23:44	
Called Number	For originating CDRs, this is the result of the Application Server translations of dialed digits. Identical to the dialed digits if pre-translations have no effect. For terminating CDRs, this is the number of the user generating the CDR.	+1-976-333-1040	9
Calling Number	Calling party's number. Always reflects the actual calling party, even when redirection occurs. Provided as an E.164 number unless the calling party has only an extension provisioned.	+1-520-555-1212	8
CDR Version	Version of the CDR content. Not included by default but can be added.	19.3	0

CDR FIELD	DESCRIPTION	EXAMPLE DATA	CDR MANAGER POSITION
Codec	The first choice in the codec list negotiated during call setup. For multi-media calls, a list of codecs (space separated) is provided, reporting the first codec choice for each media. This field is omitted if the call is released before the codec negotiation is completed. This field is present when the codec changes (in Interim CDRs) and when a call ends (in Normal CDRs, and only if a codec is present).	G722	30
Default Encoding	The default system encoding (or character set) used by the Application Server; depends on the locale of the system. Not included by default but can be added.	ISO-8859-1	N/A
Department	The user's department name.	Facilities	5
Dialed Digits	Digits as dialed by the user, before pre-translations (e.g. feature access codes and outside access codes before dialing a number). When pre-translations have no effect, this field contains the same data as Called Number. This field is used only for originating CDRs.	*66	19
Direction	"Originating" or "Terminating"	Terminating	7
Enterprise	The Enterprise name.	XYZCompany	2
Group	The user's Group name.	Montreal	4
Location	This field contains the Line/Port of the originating or terminating device in the call.	9726991997@txasdev91.net	27
Location Type	This corresponds to the device type of the location. Possible values are "Primary Device", "Shared Call Appearance", "BroadWorks Anywhere", "BroadWorks Mobility", "Executive Assistant" or "Flexible Seating Guest".	Primary Device	28
Network Call ID	For non-intra-group calls: This field is omitted for intra-group calls. For originating CDRs, it is the SIP Call ID of the outgoing SIP INVITE. For terminating CDRs, it is the SIP Call ID of the incoming SIP INVITE. This field is omitted for network calls sent out over non-SIP routes.	419313903203201022546@20.20.20.17	13
Network Call Type	For intra-group calls, this field is omitted. For non-intra-group-calls, this field captures the call type identified by the Network Server and returned in the 302 response. This field can only be reported in originating CDRs and is always omitted for terminating CDRs. It is also omitted if the Network Server does not return a call type in the 302 response.	TO	20
Network Translated Number	This field captures the result of the translations of the called Number by the Network Server, as returned in the user part of the contact within the 302 response. This field is only provided in CDRs of originating,		26

CDR FIELD	DESCRIPTION	EXAMPLE DATA	CDR MANAGER POSITION
	non-intra-group calls.		
Primary Device Line Port	Primary Device Line Port	9722221027.primary@labval.mitel.com	38
Record Id	This field is comprised of four other fields: Event Counter, System Id, Date and System Time Zone. Together these fields uniquely identify the CDR. Not included by default but can be added.	0001519204 001A644DEAC2 20130412140724.625 1-50000	1
Record Id: Date	The timestamp when the CDR is created. This timestamp is presented in the GMT time zone.	12/2/2013 7:36	N/A
Record Type	"Start", "End", "Long Duration", "Normal", "Interim" or "Failover"	Start	3
Redirecting Number	When the call has been redirected one or more times, this field reports the last redirecting number. This value is the same as User Number in an originating CDR generated for a Clearspan user initiating a redirection (call forward, transfer, simultaneous, etc.) The format follows the same rules as those for Calling Number.	+1-333-111-1534	24
Redirecting Reason	Redirection Reason for the Redirecting Number	deflection	25
Release Time	The time when the call is released. This time should correspond to the moment the call is released by the system and not necessarily when one party hangs up, since this does not always mean the call is released. Release Time is presented in the GMT time zone.	4/12/2013 7:36:41 AM	17
Releasing Party	Indicates which party released the call first. Values can be "local", "remote" or "none". "Local" is used when the local user (for which the call is generated) has released the call first and "remote" is used when the far-end party releases the call first. "None" is used when the call has not been released but a partial CDR is generated because of an Application Server shut down or force lock or because of a session audit failure.	Local	21
Route	Set to "Group" for non-distributed intra-group calls. Set to "Enterprise" for non-distributed Application Server enterprise calls (calls between two users of the same enterprise, where the enterprise is defined on the Application Server). For network calls: For originating CDRs, it is the host portion of the request-URI of the outgoing SIP INVITE, for which a proper response is received. NOTE 1: If the caller releases before a proper response is received, this field is populated with "unconfirmed". NOTE 2: Proper response includes the second 302 Moved Temporarily if use3xxAsRouteConfirmationForAccounting is set to "true". Otherwise, the 302 response is not considered as a proper response for route	192.168.3.2	12

CDR FIELD	DESCRIPTION	EXAMPLE DATA	CDR MANAGER POSITION
	<p>confirmation.</p> <p>For terminating CDRs, it is the host portion of the caller's identity taken from the appropriate header of the incoming INVITE.</p> <p>If the host portion is not present (in case of a tel-url), the route is set to "unavailable".</p> <p>Network calls that originate and terminate on the same Application Server (spiraling) generate two independent call detail records and the route is set as described here, thus showing the Application Server itself as the route.</p>		
Start Time	The time when the address is sent to or received from the system. Start Time is presented in GMT time zone.	12/2/2013 7:37:10 AM	10
Termination Cause	<p>Code capturing what action caused the call release. The following causes are used by the Application Server.</p> <p>001 – Unassigned number (user not found)</p> <p>003 – No route to destination (request failure or unavailable failure)</p> <p>016 – Normal 017 – User busy</p> <p>19 – User alerted, no answer</p> <p>20 – User not available (for example, SIP phone not registered)</p> <p>21 – Call rejected (forbidden or global failure)</p> <p>027 – Destination out of order (server request failure)</p> <p>031 – Network disconnect (Normal unspecified)</p> <p>041 – Temporary failure 086 – Call Cleared</p> <p>111 – Protocol error (unknown release code)</p> <p>041 – is used when a CDR is generated, although the actual call may still be active (as a result of an audit that timed out, because the application was force locked or due to a graceful shutdown of the Application Server)</p> <p>086 – is used when a call is forced to release as a result of the Kill or Release command of the diagnostic tool in the CLI interface</p> <p>019 – is used when a call is torn down by the Application Server because it has reached the "Maximum Call Timeout for Answered Calls"</p> <p>031 – is used when a call is torn down by the Application Server because it has reached the "Maximum Call Time for Answered Calls"</p>	Normal (016)	18
Total Duration	<p>For an originating call record, the time between when the originator begins to place the call until the call is terminated (originator or destination hangs up).</p> <p>For a terminating call record, the time between when the destination first receives the call until the call is terminated (originator or destination hangs up).</p>	0:23:44	
User ID	The login ID (including the domain) of the user generating (accountable for) this CDR. The userId field identifies the same user as that reported in the User Number field. Always present except in some failover-type CDRs	John.doe@company.com	31

CDR FIELD	DESCRIPTION	EXAMPLE DATA	CDR MANAGER POSITION
	when a network party hangs up.		
User Number	The E.164 number of the user generating this CDR or the extension if this user has no national number.	+1-976-333-1040	6
User Time Zone	The time zone of the users (an offset from GMT). The format is 0 (standard time) or 1 (daylight savings time), followed by + or -, followed by the 6-digit offset (HHMMSS). The offset is adjusted for daylight savings. The User Time Zone is the one that was effective at the beginning of the call.	0-40000	11
Virtual On-Net Call Type	The name of the Virtual On-Net Call Type used to identify calls to and from the Virtual Extension.	VONType1	29

CONFIGURING CDR FILE HOSTS

You can use CDR Manager Host Configuration to display and configure the list of hosts where CDR files are sent by the CDR Manager using FTP.

1. From the main menu, select **Reporting** and then **CDR Manager Host Configuration**. The CDR Manager Host Configuration screen displays. The Enterprises shown may vary depending on your access level.
2. Click **CDR Record Format** to view the record layout of the CDR Fields. This format is used for all files output by OpEasy (via transfer to an FTP host location or optionally may be used via Download request from the CDR Query screen). The format is not adjustable and is shown in the following figure.

Clearspan CDR Record Format
Displays the CDR fields contained in each CDR record output by Clearspan.

OK

Clearspan CDR Record Format

(1-33 of 33) [Navigation icons] 1 [Navigation icons] 50 [Dropdown arrow]

CDR Field Number	CDR Field
1	Record Id
2	Enterprise ID
3	Record Type
4	Group ID
5	Department
6	User Number
7	Direction
8	Calling Number
9	Called Number
10	Start Time
11	User Time Zone
12	Route
13	Network Call ID
14	Access Call ID
15	Answer Indicator
16	Answer Time
17	Release Time
18	Termination Cause
19	Dialed Digits
20	Network Call Type
21	Releasing Party
22	Account Code
23	Authorization Code
24	Redirecting Number
25	Redirecting Reason
26	Network Translated Number
27	Location
28	Location Type
29	Virtual On-Net Call Type
30	Codec
31	User ID
32	Primary Device Line Port
33	Account ID

Figure 52 - Clearspan CDR Record Format

As shown in the **CDR Field Number** column, there are 33 fields used by OpEasy for each CDR record; the **CDR Field** column identifies the content of each field. Click **OK** to exit the Clearspan CDR Record Format page.

3. Select the **Add Host** button as shown in the following figure to add another FTP host for Clearspan CDR Files or Raw Clearspan CDR Files.

CDR Manager Host Configuration

Display and configure the list of hosts where CDR files are FTPed by the CDR Manager.

Clearspan CDR Files

CDR Manager Host Configuration: Clearspan CDR Files

Enterprise ID	Enterprise Name	Enable FTP	Host	User	File Path	All Fields	Zip FTP File	Send Status File	Transport	Edit
Ravipati	Kirana's Enterprise, Inc	No	10.79.135.57	billing	/	All	Zip	Yes	FTP	Edit
Ravipati	Kirana's Enterprise, Inc	No	10.79.135.57	opeasy	/	All		Yes	FTP	Edit
SystemValidation	System Validation	No	10.79.135.57	opeasy	/home/opeasy/tb20_cdrs		Zip	No	SFTP	Edit

- End of Hosts -

Raw Clearspan CDR Files

CDR Manager Host Configuration: Raw Clearspan CDR Files

Enable FTP	Host	User	File Path	Zip FTP File	Send Status File	Transport	Edit
No	10.79.135.57	billing	/	Zip	No	FTP	Edit
No	10.79.135.57	opeasy	/		Yes	FTP	Edit
No	172.20.209.49	billing	/		No	FTP	Edit
No	172.20.209.49	billing	/	Zip	No	FTP	Edit
No	172.20.209.49	billings	/	Zip	No	FTP	Edit
No	172.20.209.49	opeasy	/home/opeasy/tb20_cdrs		Yes	SFTP	Edit
No	172.20.209.49	opeasy	/home/opeasy/tb20_cdrs	Zip	Yes	SFTP	Edit
No	172.20.209.49	opeasy	/home/opeasy/tb20_raw_cdrs	Zip	Yes	SFTP	Edit
No	172.20.209.50	billing	/		No	FTP	Edit
No	PlanoLabPC1.mitel.com	CDRAdmin	/	Zip	No	FTP	Edit
No	PlanoLabPC1.mitel.com	RawCDRAdmin	/		No	FTP	Edit

Figure 53 - CDR Manager Host Configuration

The Clearspan CDR Files: Host Add/Modify screen displays.

Clearspan CDR Files: Host Add
Add a host where Clearspan CDR files will be FTPed by the CDR Manager. You can add multiple hosts by pressing Apply for each host.

OK Cancel Apply Check Destination

Enterprise
Enterprise: (Select Enterprise) ▾

FTP Destination
 Enable FTP
* Host Name / IP Address:

* User:

* Enter Password:

* Confirm Password:

File Path:

Transport: FTP SFTP
 Zip FTP File
 Send Status File
 Include all CDR Fields

Figure 54 - Clearspan CDR Files: Host Add

4. Select the **Enterprise** if necessary.
5. The **Enable FTP** check box exists in CDR Manager Host Configuration and checked by default, uncheck the **Enable FTP** check box if you want to exclude the enterprise from receiving CDR FTPs.
6. Enter the Host Name/IP Address, User name and Password, and File Path.
7. Check Zip FTP File if you want the query results to be compressed into a zip file.
8. Select the Transport protocol: FTP or Secure FTP (SFTP). SFTP requires an SFTP server and supports the use of an SSH key, which eliminates the need for a password.
9. Check **Send Status File** to send a CDR information file along with each CDR record file. The CDR information file has a ".txt" extension and is sent with the ".csv" record in a Zip file.
10. Check **Include all CDR Fields** only if you want the CDR Manager to forward all files for the specified Enterprise to the FTP Destination as they are received from the system. This produces a report with 414 fields, the report does not include column headings. For more information, refer to the *BroadWorks Accounting Call Detail Record Interface Specification*. The Date/Time fields in the report is displayed in the yyyyymmddhhiiss.x GMT format.
11. Click **Apply** or **OK**. The new FTP Host appears in the list on the CDR Manager Host Configuration screen.

CDR RESULTS EXAMPLE

The “csv” CDR data is saved to the machine named ‘cwc_chumley’ in a zip file. The file format is as follows:

- The first record contains column headers for the CSV file.
- The second record contains the CDR Version (17.4) and Encoding Type (ISO-8859-1):
version=17.4 encoding=ISO-8859-1
- The third record gives the Record Identifier in column 1 (with an imbedded start time for the period of 2013-04-11 08:05:00) and ‘Start’ as the Record Type in column 3:
0001408208001A644DEAC220130411080500.1291-050000,,Start
- The fourth record begins the actual CDR. The column layout for the Enterprise specific CDR files will always match the order of the 25 columns that are defined via the CDR Record Format display, and may look like the following:

```
0000007184001A644DEAC220130401140157.3571-050000,Maytown,
Normal,ParallelRemote2,Phones
(ParallelRemote2),+19763334117,Terminating,+1976333411
6,+19763334117,20130401140157.357,1-050000,Group,,BW09
0157363010413-802653887@10.70.100.5,Yes,20130401140159
.097,20130401140500.647,016,,,local,,,,,
```

- The last row gives the Record Identifier in column 1 (with an imbedded stop time for the period of 2013-04-11 09:05:00) and ‘End’ as the Record Type in column 3:
0001437009001A644DEAC220130411090500.1031-050000,,End

The “txt” CDR Information File includes the count of CDR records sent in the CDR data file. For example, a CDR information file with contents “CDR_Record_Count=32” indicates that 32 records were sent in the CDR data file. Any line beginning with a “#” character is meant for human readability and should be ignored when machine read.

PROVISIONING LOG QUERY

The Provisioning Log Query searches and returns information about administrator operations that affect or change either the OpEasy database or Clearspan Application Server (AS) database. Certain other OpEasy actions or events are logged as well, such as starting or scheduling an Import, Export, Report, or CDR query. Logins, logouts, and login failures can be queried to monitor security.

Each logged change includes the command, selection fields, and other related fields.

The feature is accessible when the Provisioning Log is licensed and the corresponding privileges have been granted for a System Administrator, Solution Reseller, Enterprise Administrator, or Group Administrator. Department Administrators have no access to this functionality.

RUNNING A PROVISIONING LOG QUERY

You can use Provisioning Log Queries to search the log of provisioning commands and display or download the results.

- 1. From the main menu, click **Reporting**.
- 2. Select **Provisioning Query**. The **Provisioning Log Query** screen displays.

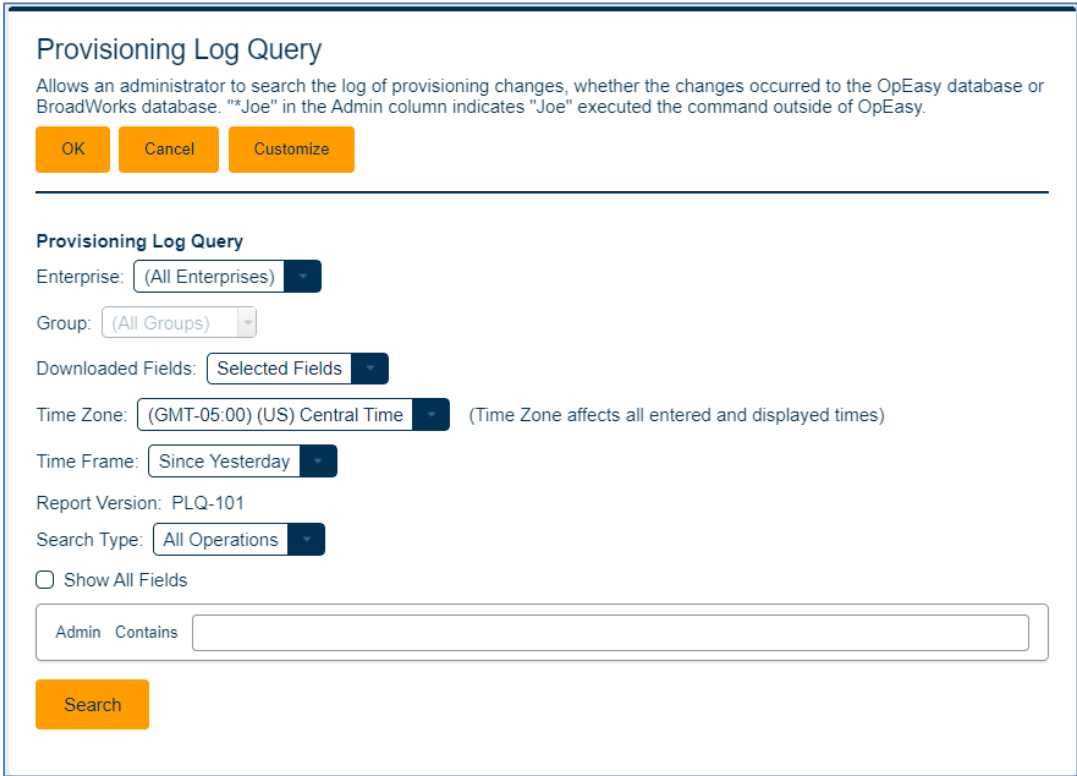


Figure 55 - Provisioning Log Query Page

- 3. Select the **Enterprise** and **Group**.

4. Adjust the **Time Zone** if necessary.
5. Select a **Time Frame** from the following options:



Note: The Provisioning Log Query is generated faster when it is limited to a specific time frame rather than selecting the **Entire History** option from the **Time Frame** drop-box.

- Since Yesterday
- Last 7 Days
- Last 30 days
- Last 2 Months
- Last 3 Months
- Last 6 Months
- Last 12 Months
- Starting At
- Ending At
- Custom Dates
- Entire History (Slower)

Or select the Starting At, Ending At or Custom Dates option and enter the Time Frame ranges.

6. Select a Search Type.
7. Select the Download Options.
8. Select a Show All Fields if you wish to show all columns of data, even those that have not specifically been marked to display on the Customize screen.
9. Use the Search Type fields to set the search parameters.
10. Click Search. The results are returned.

Provisioning Log Query
 Allows an administrator to search the log of provisioning changes, whether the changes occurred to the OpEasy database or BroadWorks database. ""Joe" in the Admin column indicates "Joe" executed the command outside of OpEasy.

Provisioning Log Query

Enterprise: SystemValidation -- System Validation

Group: JazzTest -- JazzTest

Downloaded Fields: Selected Fields

Time Zone: (GMT-05:00) (US) Central Time (Time Zone affects all entered and displayed times)

Time Frame: Since Yesterday

Report Version: PLQ-101

Search Type: All Operations

Show All Fields

Admin Contains:

Admin Field: * indicates not an OpEasy Admin

Provisioning Log Query

View	Time	Entry Type	Admin	OpEasy Login Level	Command (without version)	Enterprise ID	Enterprise Name	Group ID	Group Name	Device Name	User ID
View	07/31/2023 02:20:30 AM	Clearspan	*autotest		ServiceProviderAccessDeviceModify	SystemValidation	System Validation			CSBridge-POC	
View	07/31/2023 08:46:21 AM	Clearspan	viru	Super User	UserAdd	SystemValidation	System Validation	JazzTest	JazzTest		viru_testing@hosp.cslab.clearspancloud
View	07/31/2023 08:46:21 AM	Clearspan	viru	Super User	UserSharedCallAppearanceModify	SystemValidation	System Validation	JazzTest	JazzTest		viru_testing@hosp.cslab.clearspancloud

Figure 56 - Provisioning Log Query Search Results

- To change which fields are displayed in the Provisioning Log Query results, click the **Customize** button and follow the instructions on the screen.
- If you start to change the search criteria, ***** From the Previous Search ***** appears on the screen to indicate that the search criteria no longer matches the results shown. When you click the **Search** button again, the results will be updated to match the new criteria.
- Select Next Page > or < Previous Page to move through the records. To change the number of results per page, click Customize. Click << Pages >> to move through the pages of results. By default, a page consists of 25 messages.
- Click Download Search Results on the Provisioning Log Query page to open or save a Comma Separated Values (.csv) file of the search results.

The following figure shows a file that was downloaded with “As Displayed” settings and opened in Excel; it could also be opened in WordPad or Notepad in which case the columns would appear as comma separated values.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Enterprise	Moorehouse															
2	Groups:	All Groups															
3	Time Zone:	(GMT-05:00) (US) Central Time															
4	Start Time	05/10/2017 12:00:00 AM															
5	End Time:	End of log															
6	Search Type:	All Operations															
7	Search Criteria:	Admin Contains: ""															
8	Date:	05/11/2017 15:18:35															
9	Version:	PLQ-101															
10																	
11	Time	Entry Type	Admin	OpEasy Login Level	Command	Enterprise ID	Enterprise Name	Group ID	Group Name	Device Name	User ID	Phone Number	Phone Classification	Template	Template	User Profile	
12	05/10/201	OpEasy	vmoore.e	Enterprise	P-UserPro	Moorehouse	Moorehouse	Moorehouse	Moorehouse							6869i Testers	
13	05/10/201	Clearspan	vmoore.e	Enterprise	UserModify	Moorehouse	Moorehouse	Moorehouse	Moorehouse			sheron.johnson@moorehouse.com					
14	05/10/201	Clearspan	vmoore.e	Enterprise	UserVoice	Moorehouse	Moorehouse	Moorehouse	Moorehouse			sheron.johnson@moorehouse.com					
15	05/10/201	Clearspan	vmoore.e	Enterprise	UserVoice	Moorehouse	Moorehouse	Moorehouse	Moorehouse			sheron.johnson@moorehouse.com					
16	05/10/201	Clearspan	vmoore.e	Enterprise	UserVoice	Moorehouse	Moorehouse	Moorehouse	Moorehouse			sheron.johnson@moorehouse.com					
17	05/10/201	Clearspan	vmoore.e	Enterprise	GroupDn	Moorehouse	Moorehouse	Moorehouse	Moorehouse								
18	05/10/201	Clearspan	vmoore.e	Enterprise	UserModify	Moorehouse	Moorehouse	Moorehouse	Moorehouse			sheron.johnson@moorehouse.com					
19	05/10/201	Clearspan	vmoore.e	Enterprise	GroupDn	Moorehouse	Moorehouse	Moorehouse	Moorehouse								
20	05/10/201	OpEasy	vmoore.e	Enterprise	GroupDn	Moorehouse	Moorehouse	Moorehouse	Moorehouse								

Figure 57 - Provisioning Log Query Download File

CUSTOMIZING THE PROVISIONING LOG QUERY DISPLAY

You can select which fields to include in the Provisioning Log Query results. Selections made on this screen affect the display that is returned when an OCIR query is run. The bulleted items at the top of the screen describe the customizations that you can make.

1. From the Provisioning Log Query page, select **Customize**. The Provisioning Log Query Customize screen displays.
2. Place a check in the **Display** box for each message that you want to display in the results of the query.
 - Checking **Show All Fields** on the Provisioning Log Query page shows all of the fields listed on the Provisioning Log Query Customize screen, even the ones not checked.
 - If you will never want to see a particular field, delete it rather than leaving it unchecked.
 - Use the **Display All Fields** check box to check or uncheck all individual rows at once.
3. Enter a value for **Query Results Page Size** to set the number of rows per page that are returned by a query.
4. If you want to add a field to the query display choices, click the **Add** link in the position where you want the field to appear. The Query Customize: Column Add screen displays.
 - **Column Number** shows the position that this field will have in the display options.
 - Select a **Query Field** from the drop-down list.
 - If desired, you can modify the Column Title text that will be displayed for this field's header.
 - If desired, you can set a Maximum Length that limits the length of information displayed in that column. If no value is provided, the column width will allow all information to be displayed.
 - As indicated by the asterisk, clicking OK retains your changes, but you must click Apply
 - or OK on the subsequent page to save the changes permanently.
5. To edit a field in the Provisioning Log Query display options, click Edit on the row of the field that you want to modify. The Provisioning Log Query Customize: Column Modify screen displays where you can change a column title or set its maximum length. To remove a field from the display options, click Delete. If you want to move a field to another position, delete it from its current position and add it back at the desired location.
6. Click OK when you are done making changes.

PROVISIONING ELEMENTS USED FOR PROVISIONING LOG QUERY DISPLAYS

The following table provides the operations and actions that may be used to display Provisioning Log Query results. A description and an example data of each logged operation are included in the table.

MESSAGE	DESCRIPTION	EXAMPLE DATA
Admin	Login Name of administrator who executed the command, who may be an OpEasy administrator, an OpEasy process, a BroadWorks administrator, or a BroadWorks process. OpEasy administrator Login Names have no special marking. However, an OpEasy process is enclosed in parenthesis, such as "(CSInterface)". If the administrator is NOT an OpEasy administrator, a star (*) precedes the Login Name, such as "*Jim", "*973331001@tb20ro.aastra.com", or "*XS localhost Admin*". "*XS localhost Admin*" identifies a BroadWorks process.	"Jim"
Altered	Passwords were suppressed.	
Clearspan Portal Login Level	BroadWorks Login Level of an administrator using the Clearspan Portal	"User"
Command	Either a BroadWorks OCI operation, an OpEasy database operation, or OpEasy action. For a BroadWorks OCI operation, command contains the word "Request" and some contain a version/service pack number (like "17Sp4"). The full form is saved, but the "Request17Sp4" may not be displayed. For an OpEasy database operation or OpEasy action, command is in the form: <OpEasy Application>-<OpEasy UI Page>-<Action>. Examples: "O-OpEasyLogout-OpEasySessionTimeout", "P-User-Add", "P-Import-Start".	"UserAddRequest17Sp4"
Device Name	Combined with Enterprise and Group uniquely identifies the device that a command works on.	"Mitel6867i-9762221073"
Enterprise Id	Enterprise identifier	"AutoTest"
Entry Type	Type of Provisioning Log entry: "Clearspan" for a change to the BroadWorks database (OCI command). "OpEasy" for a change to the OpEasy database or an OpEasy action (login, logout, etc.).	"Clearspan"
Group Id	Group identifier	"Group_1"
ID	Log entry identifier	"28193213"
Is OpEasy Admin	Administrator is an OpEasy Administrator: Yes / No	"Yes"
OCI Command	Full OCI message content.	<command xsi:type="UserServiceAssignListRequest" xmlns=""> <userId>alan.jones@domain.com </userId> <servicePackName>All</servicePackName> </command>
OpEasyAdminName	Administrator Name for the OpEasy administrator identified by the above Admin.	"Jimmy Johnson"
OpEasyLoginLevel	OpEasy Login Level of the above Admin. One of the following: "Super User", "System Administrator", "Solution Reseller", "Enterprise Administrator", "Group Administrator", or "Department Administrator".	"Enterprise Administrator"
Record ID	Sequence number (added by OpEasy)	"507903"

MESSAGE	DESCRIPTION	EXAMPLE DATA
Reporting Host	IP Address of device reporting command	"10.70.100.5"
Time	Date and Time command was logged (usually within seconds of execution). Saved as number of milliseconds since midnight GMT, 1-1-1970. Usually displayed in "MM/DD/YYYY hh/mm/ss AM" format – adjusted to selected time-zone.	"1389802461785" (01/15/2014 10:14:21 AM)
User Id, Service User Id, new UserId	Uniquely identifies the User entity the command works on. Depending on the command type this field may be received as a User Identifier, a Service User Identifier or in a User Id change – the new user identifier.	"9762221073@test.aastra.com"
Warning Message	Warning message issued when processing command. Used for both logged Clearspan operations and logged OpEasy operations. For OpEasy, primarily used in Login related entries.	
User Message Fields		
Address Line 1	First line of postal address	"5850 Granite Parkway"
Address Line 2	Second line of postal address	"Suite 600"
Agent ACD State	ACD agent state	"Available", "Wrap-up"
Agent User Id	ACD agent User Id	"Testing03@cctestesting.aastra.com"
Alias	SIP Alias	"Tester08a@labval.aastra.com"
Calling-Line-IdFirst Name, Calling-Line-IdLast Name	First and Last name usually displayed on the destination phone when this user calls.	"Fred Jones"
Calling-Line-Id Phone Number	Phone number usually displayed on destination phone when this user calls.	"9725551008"
City	Postal address city	"Plano"
Country	Postal address country	"USA"
Department	Identifies department user belongs to.	"Marketing"
Description	Description of entity.	"Lobby Phone", "Pizza Speed Dial"
Device Level	Category of endpoint, device, trunk Group, Music on hold etc.	"Group", "Enterprise", "Service Provider"
Email Address	User's e-mail address.	"Fred.Jones@cctestesting.com"
Extension	User's extension (within group)	"2356"
First Name, Last Name	User's or administrator's first and last name	"Fred, Jones"
Group Mail Server Email Address	E-mail address of group Mail Server	"Server@cctestesting.com"
Group Mail Server User Id	User Id on Group Mail Server	"FJones"
Key	AutoAttendant menu key (0-9#*).	"7"
Language	Language used for admin, service definitions, etc	"English"
List URI	List of URI's used for BLF	"Test6865i@labval.aastra.com"

MESSAGE	DESCRIPTION	EXAMPLE DATA
Mobile Phone Number	User's mobile phone number	"9725551212"
Name	Name of just about anything	"TestHuntGroup", "Department302"
Network Class Of Service	Name of network class of service.	"No Restrictions", "Local Only"
New Service Pack Name	New name to give to a Service Pack.	"Business Services 2"
Pager Phone Number	User's page phone number	"9725555555"
Phone Number	User's full phone number	"9725551086"
Service Name	Name of a Broadsoft service.	"Call Pickup", "Voice Messaging Group"
Service Pack Name	Name of a Service Pack	"Business Services"
Skill Level	Agent skill level	"1"
State Or Province	Postal Address State or Province	"Texas"
Task Name	Name of Service Pack Migration Task or Trunk Group User Creation task.	"Service Migration 1"
Time Zone	Time-zone associated with an entity. User, Service Instance, Group, etc.	"America/Chicago", "US/Central"
Transfer Phone Number	Voice messaging or Call Center number or transfer to.	"9725551083"
Type	Auto-Attendant type	"Standard", "Advanced"
Unauthorized	Service Pack Authorization	"true"
Use Phone Message Waiting Indicator	Voice Messaging	"true"
Device Message Fields		
Device Access Context	Device Management Access Context (path to configuration files)	"dms"
Device Access Net Address	Device management Server network address	"tb20ews.us.aastra.com"
Device Access Port	Device Management file access port (HTTP, HTTPS port)	"80", "443"
Device Access Protocol	Device Management file access protocol	"Http", "Https"
Device Type	Device type for SIP device, File Server, etc.	"Mitel_6757i", "Clearspan"
Line Port	Individual network address for a line, usually URI.	"9725221007@labval.com", "music@tb20hq.testlab.com"
MAC Address	Media Access Control address. Usually unique identifier for network resident device. Sometime used as auto-install ID (e.g. as extension).	"00085d3f12fe", "0000001068"
MAC Based File Authentication	Device Type uses DMS Mac Based File Authentication.	"true"

MESSAGE	DESCRIPTION	EXAMPLE DATA
MAC In Non Request URI	Device Type Option	"true"
Net Address	Network address of various access devices	"10.70.102.66"
Outbound Proxy Server Net Address	Access device Outbound Proxy address	"tb20hq.aastra.com"
Physical Location	Device location	"Fifth Floor", "Engineering Building"
Port	Device Port Address – various uses	"5060"
Protocol	Device Protocol	"SIP 2.0"
Registration Capable	Device Type registration capable.	"true"
Requires MWI Subscription	Device Type requires MWI subscription	
Serial Number	Access device serial number	"1234567890-1234567890"
Tag Name	Name of Device Custom Tag, or System Custom Tag	"%SBC_ADDRESS%", "WEB_SERVER%"
Tag Set Name	Name of tag set	"Polycom-Tags"
Tag Value	Value of a defined tag	"192.168.3.2", "EMS.mitel.com"
Transport Protocol	Device transport protocol	"TCP", "UDP"
Trunk Mode	Trunk mode	"User"
Use Http Digest Authentication	Device type flag.	"true"
Username	User name – usually for file or system access.	"clearspan", "972521087@tb20ro.aastra.com"
OpEasy-Specific Fields		
Affected Admin	OpEasy Login Name of an OpEasy administrator. Used when identifying an administrator whose OpEasy login settings have been changed or the administrator has been added, deleted, logged out, unlocked, or disabled/enabled. Other uses include identifying the OpEasy administrator that initiated a ScheduledServices request (Import, Export, Report, etc.).	"akbar"
Affected Admin Login Level	OpEasy Login Level of the above Affected Admin. One of the following: "Super User", "System Administrator", "Solution Reseller", "Enterprise Administrator", "Group Administrator", or "Department Administrator".	"Group Administrator"
Affected Admin Name	Administrator Name of the above Affected Admin.	"Tony Akbar"
Authentication Type Tag	When Single Sign-On (SSO) is in use on the Clearspan system, this is an Authentication Tag being added, modified, or deleted via Administrative Tools User Authentication Management.	"COODT"
Conference Server Address Name	Name of a Conference Server Address being added, modified, or deleted. These addresses are used in OpEasy templates.	"Polycom TB20RO"

MESSAGE	DESCRIPTION	EXAMPLE DATA
EGW Name	Name of an affected Emergency Gateway Manager (EGW) by OpEasy Emergency Gateway Manager application.	"Centralized-EGW"
EMS Address Name	Name of an EMS Address being added, modified, or deleted. These addresses are used in OpEasy templates.	"EMS1 Public"
Host Name	Name of a Host being added, modified, or deleted. The Host is currently only used when configuring the CDR Manager via Reporting CDR CDR Manager Host Configuration.	"Aastra Canada"
HTTP Session ID	ID of the HTTP Session. This is provided when an OpEasy administrator is logged out due to a Session Timeout.	"10582A18B75B4713DD04E5B77C97EF6E"
Login Failure Reason	Reason description for an OpEasy login failure.	"Invalid Login Name"
	One of the following reasons: "Invalid Login Name", "Invalid Password", "Must Login using Single Sign-On (SSO)", "Login Name In Use", "Session ID In Use", "Login Name and Session ID In Use", "Administrator Account Locked", "Administrator Account Disabled", "Internal Error", "Unlicensed Enterprise", "Trial License Expired", or "Management Port Required".	
Login Session ID	ID of the Login Session. This is provided when an OpEasy administrator is logged out due to a Session Timeout.	"3342"
MOH Profile Name	Name of a Music On Hold (MOH) Profile being added, modified, or deleted.	"Elevator Music"
MOH Profile Type	Type of referenced Music On Hold (MOH) Profile: Group or User	"Group"
OpEasy Page	Screen Name of the currently displayed OpEasy page. This is provided when an OpEasy administrator is logged out due to a Session Timeout.	"Troubleshooting Phones"
Phone Classification	Classification of the associated phone device as used within the OpEasy templates. Mitel (Aastra) phones are "SIP Phones". For Clearspan Communicator/CS Engage/Clearspan Mobile/Tablet devices, can be "Clearspan Communicator – Desktop", "Clearspan Communicator – Desktop (Skype for Business)", "Clearspan Communicator - Mobile", "Clearspan Communicator - Tablet", "Connect - Mobile".	"SIP Phones"
Phone Manufacturer	Manufacturer of the associated phone device: Mitel (Aastra), Polycom, Generic, AudioCodes, etc.	"Polycom"
Scheduled Task	Name of a task that is being or has been scheduled for processing by OpEasy's ScheduledServices. For Provisioning, can be "Import: Basic", "Import: Advanced", "Import: System", "Import: Enterprise", "Import: Group", "Export: Advanced", "Export: System", "Export: Enterprise", or "Export: Group". For Reporting, can be "Inventory Report", "License & Optional Services Report", "Enterprise Usage Report", "Edge Device Utilization Report", "System License Report", "System Information Report", "System XML Report", or "CDR Query".	"Inventory Report"
Scheduling Request ID	ID number of a task scheduled for processing by OpEasy's ScheduledServices.	"281918"

MESSAGE	DESCRIPTION	EXAMPLE DATA
Scheduling Results ID	ID number of the results from a task scheduled for processing by OpEasy's ScheduledServices.	"281982"
SMDI Proxy Channel ID	ID of an SNMDI Proxy Channel being added, modified, or deleted.	"5"
Speed Dial 100 List	Name of a Speed Dial 100 List being added, modified, or deleted.	"Management Speed Numbers"
Speed Dial 8 List	Name of a Speed Dial 8 List being added, modified, or deleted.	"Standard Speed Numbers"
Spreadsheet File	Name of a spreadsheet file being Imported by OpEasy.	"ClearspanImportAdvanced_BusinessUnit.xlsx"
Template Level	Level of the OpEasy template assigned to an associated phone device: System, Enterprise, or Group	"Group"
Template Name	Name of the OpEasy template assigned to an associated phone device. For the default template, the name is "<Default>".	"Mitel 6869i – Manager Phone"
Terminal Server Name	Name of the BroadWorks Terminal Server for an SMDI Proxy Channel being added, modified, or deleted.	"Main Terminal Server"
User Profile	Name of a User Profile that is being added, modified, or deleted.	"Employees"

PHONE APPLICATION LOG QUERY

The Phone Application Log Query searches event messages in the Phone Application log. You can display or download the selected events. This query allows you to monitor a device type conversion process, and it contains Call Mark events from other functionality.

1. From the main menu, click **Reporting**.
2. Select **Phone Log Query**. The Phone Application Log Query screen displays.
3. Select an **Enterprise** and **Group**.
4. Choose the **Time Frame** within to search.
5. Use the **Phone Application Log Search** fields to set the search parameters.
6. Click **Search**. The results are returned.

The screenshot shows the 'Phone Application Log Query' interface. At the top, there are 'OK' and 'Cancel' buttons. Below that, the title 'Phone Application Log Query' is followed by the instruction 'Search and display the events generated by Phone Applications.' The search filters include: Enterprise: (All Enterprises), Group: (All Groups), Time Frame: Last 7 Days, and Report Version: PALQ-101. A search bar contains '(All Events)' and a 'Search' button. Below the search bar are navigation buttons: '<< << 40 Pages < Previous Page Next Page > >> 40 Pages >> Download Search Results'. The main section is titled 'Phone Application Log' and contains a table with the following data:

Event Timestamp	Phone App Name	Phone App Event	Event Severity	Failure Reason	Phone MAC Address	Phone Device Name	Phone Device Level	Active Line/Port	Remote IP Address	Failure Reason Details
2023/07/26 18:57:30	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/26 19:57:30	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/26 20:57:31	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/26 21:57:32	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/26 22:57:34	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/26 23:57:36	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/27 00:57:38	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/27 01:57:39	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/27 02:57:41	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/27 03:57:41	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/27 04:57:42	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	
2023/07/27 05:57:42	CiscoConfig	CiscoConfig_NoChangeRequired	INFO		00727827a3d6	Cisco8851DMS-9723330015	Group		10.79.7.41	

Figure 58 - Phone Application Log Query

7. Select **Next Page >** or **< Previous Page** to move through the records. Click **<< Pages >>** to move through the pages of results.
8. Click **Download Search Results** to open or save a Comma Separated Values (.csv) file of the search results.

APPENDIX: CHANGE HISTORY

This section lists changes made to each of the OpEasy Reports by OpEasy release, beginning with OpEasy 4.7. Similarly, changes made to downloadable logs for CDR, Provisioning Log, and Phone Application Log are identified.

OPEASY REPORTS

ADMINISTRATOR REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (AR-104)		No Changes
OpEasy 23.2 (AR-104)		Weak Password column (F) added. "Yes" indicates a weak password match, 'blank' indicates no weak password match, " –" (double-dashes) indicates no weak password audit executed.
OpEasy 22.3 (AR-103)	Column O	Used for OpEasy API Authentication column has been added. Indicates if that the administrator is used only for OpEasy API authentication.
OpEasy 22.2 (AR-102)	Column R	Enterprise Account Administrator column has been added. Indicates if an Enterprise administrator can add/modify other Enterprise administrators for the enterprise.
OpEasy 21.1 (AR-101)		New Report

EDGE DEVICE UTILIZATION REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (EDUR-102)		No Changes
OpEasy 4.10 (EDUR-102)	Columns J-K	Template Level and Template Name columns have been swapped in the report, and now are in the order: Template Name (column J) and Template Level (column K).
OpEasy 4.9 (EDUR-101)	--	Report version added.
OpEasy 4.7	--	Enterprise now displayed as "Enterprise ID -- Enterprise Name".
--	Cell B2	Group now displayed as "Group ID – Group Name".
--	Cell B3	Single Enterprise column replaced by two columns: Enterprise ID and corresponding Enterprise Name .
--	Columns E-F	Single Group column replaced by two columns: Group ID and corresponding Group Name .
--	Columns G-H	

ENTERPRISE USAGE REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (EUR-110)		No changes
OpEasy 22.2 (EUR-110)		Enhanced Call Logs column has been removed
OpEasy 21.2 (EUR-109)	Enterprise Usage	Clearspan Bridge Assigned Port Count - Count of assigned Clearspan Bridge ports per enterprise
OpEasy 21.1 (EUR-108)	Enterprise Usage	MS Teams Client - Count of MS Teams Clients per enterprise.
Enterprise Usage	Column X (new)	Grandstream Phones – contains the count of Grandstream phones in the enterprise.
Enterprise Usage	Column R (new)	

EXTRA SETTINGS AUDIT REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (ESAR-102)		No Changes
OpEasy 21.1 (ESAR-101)		No Changes

INVENTORY REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (IR-106)		No changes
OpEasy 23.1 (IR-106)		
Phone Devices	Column G (new)	SUS – an X indicates that the device is Suspended
OpEasy 22.1 (IR-105)		
Users	Column P (new)	Title – User title
OpEasy 21.1 (IR-103)		
Users	Column H (new)	User Create Date - Contains the date and time that a user was created
Users	Column R (new)	Address Location – Contains the address of the user
Phone Devices	Column C (new)	Device Create Date - Contains the date and time that a device was created.
OpEasy 20.2 (IR-103)		
Users	Column I	Column Header Text changed from MS to SU
	Column T	Column Header Text changed from MS to SD
Phone Devices	Column E	Column Header Text changed from MS to SU
	Column K	Column Header Text changed from MS to SD
OpEasy 4.10 (IR-102)		
(All Tabs)	Columns C, E, F, O (Users tab) Column L (Phone Devices tab)	Normalize phone numbers so that they appear in the report the same as they appear in the OpEasy UI. For example, North American national numbers (+1-xxxxxxx) are displayed as “xxx-xxx-xxxx” and appear in the report that way.

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
Users	Column E (new)	Alternate Numbers (Phone Number (Extension)) - List all of the Alternate Numbers configured for the user, each separated by a <Return>. Both the phone number and extension of the Alternate Numbers are reported (if they exist).
Users	Column X (new)	Template Level – Contains the level (Enterprise, or Group) of the template identified in Template Name column (column W).
Users	Column AA (new)	Encrypted - Column marked with “X” if any of the phone devices associated with the user use encryption.
Phone Devices	Column R (new)	Template Level – Contains the level (Enterprise, or Group) of the template identified in Template Name column (column Q).
Phone Devices	Column U (new)	Encrypted - Column marked with “X” if the phone device uses encryption.
<hr/>		
OpEasy 4.9 (IR-101)		
(All Tabs)	Cell B6	Report version added.
OpEasy 4.7		
(All Tabs)	Cell B2	Enterprise now displayed as “Enterprise ID – Enterprise Name”.
(All Tabs)	Cell B3	Group now displayed as “Group ID – Group Name”.
Users	Columns I-J	Single Group column replaced by two columns: Group ID and corresponding Group Name.
Phone Devices	Columns M-N	Single Group column replaced by two columns: Group ID and corresponding Group Name.

LICENSE & OPTIONAL SERVICES REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (LOSR-107)		
No changes		
OpEasy 22.2 (LOSR-107)		
Premium Users	Column E (New)	Added Billing Bundle Name column
OpEasy 22.1 SP1 (LOSR-107)		
Premium Users	Column E (New)	Added Billing Bundle Name column
OpEasy 21.1 (LOSR-106)		
Basic Users	Column I (new)	VM Transcription (Mutare) - An 'X' in this column indicates that VM transcription (Mutare) is enabled for the user.
Premium Users	Column H (new)	VM Transcription (Mutare) - An 'X' in this column indicates that VM transcription (Mutare) is enabled for the user.
Basic Users	Column J (new)	ERS Enabled - An 'X' in this column indicates that ERS is enabled for this user.
Premium Users	Column J (new)	ERS Enabled - An 'X' in this column indicates that ERS is enabled for this user.
Basic Trunk Users	Column H (new)	ERS Enabled - An 'X' in this column indicates that ERS is enabled for this user.
Business Trunk Users	Column H (new)	ERS Enabled - An 'X' in this column indicates that ERS is enabled for this user.
Basic Users	Column I (new)	An 'X' in this column indicates that ERS is enabled for the user.
Premium Users	Column I (new)	An 'X' in this column indicates that ERS is enabled for the user.
Basic Trunk Users	Column H (new)	An 'X' in this column indicates that ERS is enabled for the user.
Business Trunk Users	Column H (new)	An 'X' in this column indicates that ERS is enabled for the user.
OpEasy 20.2 (LOSR-104)		
Basic Users	Column F	Column Header Text changed from MS to SU
Premium Users	Column F	Column Header Text changed from MS to SU

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
Basic Trunk Users	Column E	Column Header Text changed from MS to SU
Business Trunk Users	Column E	Column Header Text changed from MS to SU
VM only Users	Column E	Column Header Text changed from MS to SU
No License Users	Column F	Column Header Text changed from MS to SU
Optional Services	Column D	Column Header Text changed from “ Mitel Support Total ” to “ Support User Total ”
	Column E	Column Header Text changed from “ Group Totals (excluding Mitel Support) ” to “ Group Totals (Excluding Support Users) ”
Optional Service Users	Column I	Column Header Text changed from MS to SU
	Column L(New)	Department – User’s department
<hr/>		
OpEasy 19.2 (LOSR-104)		
System Resources	Column A	Section Header Text changed from “ System Resource ” to “ Enterprise Resources ”
System Resources	Column A	Section Header Text changed from “ Group ID ” to “ Group ” (Group Resources)
System Resources	Column A	New Section Header Group (Trunk Group Resources) – contains the provisioned Trunk Channel values (Max Active Calls Allowed) for each Trunk Group within each group in the enterprise.
System Resources	Column E	Group (Group Resources) column header text changed from “ Trunk Channel ” to “ General Trunk Channel ”
<hr/>		
OpEasy 19.1 (LOSR-103)		
Optional Service Users	Column F (New)	Account ID – Contains the account ID of the user
<hr/>		
OpEasy 4.10 (LOSR-102)		
(All Tabs)	Basic Users tab: Columns J, Q Premium Users tab: Columns I, Q Basic Trunk Users tab: Columns H, N Business Trunk Users tab: Columns J, P VMOnly Users tab: Columns G, N	Normalize phone numbers so that they appear in the report the same as they appear in the OpEasy UI. For example, North American national numbers (+1-xxxxxxx) are displayed as “xxx-xxx-xxxx” and appear in the report that way.

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
Basic Users	No License Users tab: Columns I, P Virtual On-Net Extensions tab: Column C Column S (new)	Encrypted - Column marked with "X" if any of the phone devices associated with the user use encryption.
Premium Users	Column S (new)	Encrypted - Column marked with "X" if any of the phone devices associated with the user use encryption.
OpEasy 4.9 (LOSR-101) (All Tabs)	Cell B6	Report version added.
OpEasy 4.7 (All Tabs)	Cell B2	Enterprise now displayed as "Enterprise ID – Enterprise Name".
(All Tabs)	Cell B3	Group now displayed as "Group ID – Group Name".
Basic Users	Columns M-N	Single Group column replaced by two columns: Group ID and corresponding Group Name.
Premium Users	Columns M-N	Single Group column replaced by two columns: Group ID and corresponding Group Name.
Basic Trunk Users	Columns J-K	Single Group column replaced by two columns: Group ID and corresponding Group Name.
Business Trunk Users	Columns L-M	Single Group column replaced by two columns: Group ID and corresponding Group Name.
VMOnly Users	Columns J-K	Single Group column replaced by two columns: Group ID and corresponding Group Name.
No License Users	Columns L-M	Single Group column replaced by two columns: Group ID and corresponding Group Name.
Optional Services	Rows 25-27	Collaborate – Audio, Collaborate – Video, and Collaborate – Sharing services added as new rows.
Optional Service Users	Columns I-J	Single Group column replaced by two columns: Group ID and corresponding Group Name. Rows added for Collaborate – Audio, Collaborate – Video, and Collaborate – Sharing services when assigned to users.
System Resources	Columns A-C	Single Group column replaced by two columns: Group ID and corresponding Group Name.

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
Virtual On-Net Extensions	Columns F-G	Single Group column replaced by two columns: Group ID and corresponding Group Name.

REGISTRATION REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (RR-102)		No Changes
OpEasy 20.2 (RR-102)		No Changes
OpEasy 4.9 (RR-101) New in OpEasy 4.9.		

SYSTEM INFORMATION REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (SIR-101)		No Changes
OpEasy 21.1 (SIR-101)		No Changes

SYSTEM LICENSE REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (SLR-102)		No Changes
OpEasy 21.1 (SLR-102)		No Changes

SYSTEM USER AND SERVICES REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (SUSR-102)		No Changes
OpEasy 21.1 (SUSR-102)		No Changes

USER INFORMATION REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (UIR-101)		No changes
OpEasy 21.1 (UIR-101)		New Report

VOICE MAIL AUDIT REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (VMAR-102)		No Changes
OpEasy 21.1 (VMAR-102)		New Report

VOICE MAIL USAGE REPORT

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (VMUR-102)		No Changes
OpEasy 21.1 (VMUR-102)		New Report

OPEASY LOGS

This section lists changes to the CDR, Provisioning Log, and Phone Applications Logs provided via query and then downloaded (or emailed).

CDR QUERY

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (CDRQ-101)		No changes
OpEasy 19.2 (CDRQ-105)	(Customized)	Account ID – Account ID assigned to the originating user. (New Column)
	(Customized)	Primary Device Line Port – Line port of the originating caller. (New Column)
OpEasy 4.9 (CDRQ-101)	Cell B7	Report version added.
OpEasy 4.7	Cell B1	Enterprise now displayed as “Enterprise ID – Enterprise Name”.
	Cell B2	Group now displayed as “Group ID – Group Name”.
	(Customized)	Single Enterprise column replaced by two columns: Enterprise ID and corresponding Enterprise Name . For existing administrators, Enterprise Name may not be displayed until added via CDR Query customization.
	(Customized)	Single Group column replaced by two columns: Group ID and corresponding Group Name . For existing administrators, Group Name may not be displayed until added via CDR Query customization.

PHONE APPLICATION LOG

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (PALQ-101)		No changes
OpEasy 4.9 (PALQ-101)	Cell B6	Date added.
	Cell B7	Report version added.
OpEasy 4.7	Column M-N	Single AutoInstall: Existing Device Enterprise column replaced by two columns: AutoInstall: Existing Device Enterprise ID and corresponding AutoInstall: Existing Device Enterprise Name .
	Column O-P	Single AutoInstall: Existing Device Group column replaced by two columns: AutoInstall: Existing Device Group ID and corresponding AutoInstall: Existing Device Group Name .
	Column S-T	Single AutoInstall: New Device Enterprise column replaced by two columns: AutoInstall: New Device Enterprise ID and corresponding AutoInstall: New Device Enterprise Name .
	Column U-V	Single AutoInstall: New Device Group column replaced by two columns: AutoInstall: New Device Group ID and corresponding AutoInstall: New Device Group Name .

PROVISIONING LOG

REPORT TAB	ROW / COLUMN	DESCRIPTION OF CHANGE
OpEasy 23.3 (PLQ-101)		No Changes
OpEasy 4.9 (PLQ-101)	Cell B8	Date added.
	Cell B9	Report version added.
OpEasy 4.7	(Customized)	Single Enterprise column replaced by two columns: Enterprise ID and corresponding Enterprise Name . For existing administrators, Enterprise Name may not be displayed until added via CDR Query customization.
	(Customized)	Single Group column replaced by two columns: Group ID and corresponding Group Name . For existing administrators, Group Name may not be displayed until added via CDR Query customization.
	Last Row	If the query times out, the last row now displays "Error: Search timed out. Searched through [date timestamp]". If no timeout error occurred, the last line of the CSV file contains "End".