

cc: Survey Administration Guide, v4.5 R3

February 2012

Reference Guide

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Note: Applicable non-disclosure agreements must be in force for authorization.

	Revision History						
Revision	Change Description	Author	Effective Date				
0	Initial draft based on 3.0 documentation and updates from Tassniyom.	JThomas	2011-9-28				
1	Added Technical Overview, Requirements, SIP/VoIP Configuration, AudioCodes Configuration, PBX Configuration, and cc: Survey server installation.	JThomas	2011-9-29				
2	Updates from Tarne Tassinyom review. First release to Install and Support staffs.	JThomas	2011-10-19				
3	Updated the Install the Server section specifying .exes that need to be run. Info from Tassinyom email to Hersey. Fixed 'Shoretel" typo on page 10.	JThomas	2012-02-03				

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Introduction

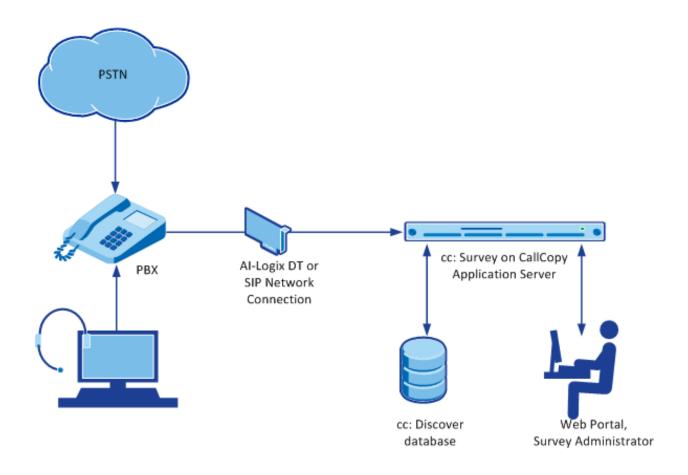
This document explains the customer-premise based version of CallCopy's cc: Survey module. The document is for system administrators, survey administrators, and report users. It covers

- Equipment configuration for TDM
- Survey engine administration
- Survey form design and creation
- Reporting

Note: For information on CallCopy's cc: Survey service, contact your CallCopy representative. That service provides all the functionality of the customer-premise based version, but CallCopy hosts and manages the equipment and data. Users are provided access to the surveys and reporting.

Product Technical Overview

This diagram illustrates the cc: Survey components and interactions.



Component	Function
	cc: Survey can be setup to handle calls two ways:
Callers via PSTN or Agents	 A telephone number can be setup and provided to the public. Callers dial the number, and the PBX directs the call to the survey engine. Agents can transfer callers to the survey engine via the PBX.
	A unique DNIS is created on the PBX for each survey. The PBX transfers calls from agents or toll-free numbers to the appropriate DNIS and survey.
РВХ	For each call, the PBX can send the survey engine the
	DNISCaller number or Agent/Extension number as an ANI
Al-Logix DT or SIP	For a TDM network, cc: Survey connects to the PBX/ACD via a T1 trunk. This setup requires an Al-Logix DT voice board.
SIP	For a VoIP network, cc: Survey supports SIP communications.
	cc: Survey consists of the survey engine that executes the survey forms and audio files, records respondent's input and call information to the database, and records respondents' voice comments to WAV files.
cc: Survey	The directories for the survey form, audio prompt, and verbal response files are located on this machine in most installations, although they can be located on a different machine.
	Survey and cc: Discover can be hosted by the same machine or separate machines. Survey can also be deployed without cc: Discover.
	Administrators, system administrators, and managers use the Web Portal to
cc: Discover Web Portal	 Create and manage survey forms. Configure and manage the server and users' permissions. Review survey results, reports, and respondents' audio responses.
cc: Discover Database	Call information and respondents' input and responses are recorded in this database as survey records. Reports are generated from these records.

Requirements

PBX

VoIP/SIP Supported PBXs

These PBXs are supported:

- ShoreTel
- Cisco
- Avaya
- Asterisk

TDM/ISDN Supported PBXs

All PBXs are supported but require an Al-Logix DT voice board.

Hardware, Software, and Licensing

Hardware and software requirements vary by PBX. Some PBXs do require licensing for SIP endpoints.

CallCopy

cc: Survey can be deployed with CallCopy's cc: Discover. For that deployment scenario, the requirements for that system and those stated here must be met. See the *cc: Discover Installation Guide* for additional requirements information.

Hardware

Hardware requirements vary depending on system configurations and usage requirements. Specifications are determined by the CallCopy Sales Engineering team during the sales process. For TDM/ISDN PBXs, the following items are specifically required:

AudioCodes DT3209 (single span) T1 terminate board.

Software

This software is required:

- CallCopy cc: Discover Web Portal and database, v4.3 and higher
- AudioCodes SmartWORKS v5.2 or higher

Licensing

Contact your CallCopy representative for licensing information.

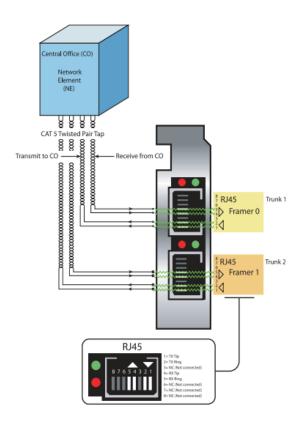
AudioCodes Configuration

This chapter is only for users who will connect to the cc: Survey server via a TDM/ISDN PRI T-1 trunk. CallCopy uses AudioCodes Al-Logix DT-series boards to provide terminate connections to the customer PBX.

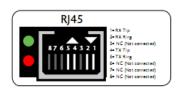
This chapter assumes that AudioCodes' SmartWORKS software has been installed.

Example Wiring

An example wiring diagram appears below. Note that the T1 might need to be connected via a cross-over cable if connecting to a PBX or ACD. For more information on wiring concerns, please reference the *AudioCodes SmartWORKS DT Quick Install* document.



NOTE: A crossover cable is not required when installing a DT3209TE or a DT6409TE



Board Configuration

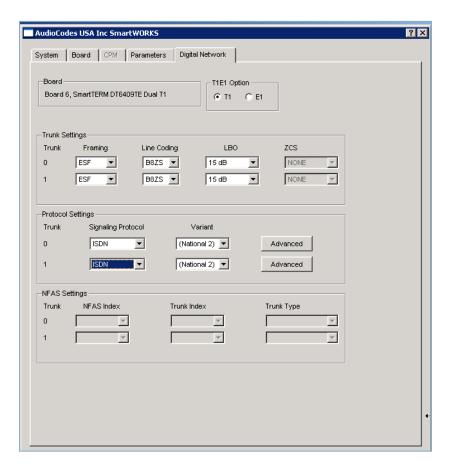
The board settings have to match those on the customers' PBX. See section *Example PBX Configurations*.

A T1 deployed with a PRI layer is preferred for speed of connectivity.

To configure the SmartWORKS board, follow these steps:

- 1. Open the SmartControl Panel Applet located in the Control Panel.
- 2. On the **Board** tab of the window, verify the desired board number is selected. Confirm that the TDM Encoding setting is µ–Law.
- 3. Click the **Digital Network** tab. On this tab, the following Trunk Settings must be configured:
 - Framing: ESF
 - Line Coding: B8ZS
- 4. Configure these Protocol Settings:
 - Signaling Protocol:
 - Variant: National 2 (NI2)

This screenshot shows the configuration of a T1. The screenshot is for a board serving two T1s. Most cc: Survey systems will have only a single span available.



Verifying Board Service

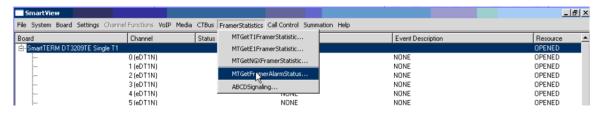
Proper operation of the board can be verified using the AudioCodes SmartView software that was installed with the SmartWORKS package. To open SmartView, from the Start menu select **Programs > Al-Logix > SmartWORKS > SmartView**.

From the menu bar, select **System > MTSysStartup**. This loads the driver, opens the board, and all channels.

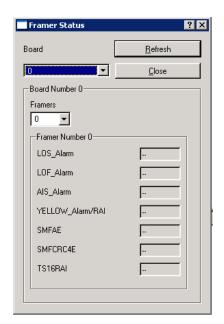
At this point the system is set up to operate and capture events. To verify the board is in service, alarm states need to be checked. You can use these states to verify that the T1 layer is configured and connected cleanly to the CPE.

From the menu bar, select FramerStatistics > MTGetT1/E1FramerStatistic.

The following alarm screen is initiated:



The following alarm screen is initiated. Any alarm value of greater than is indicative of wiring or configuration issue. Any alarm value of greater than 0 (or --) is indicative of wiring or configuration issue. Reference the *AudioCodes SmartWORKS DT Quick Install* document for troubleshooting.



PBX Configuration

See your PBX documentation for specific steps to perform the tasks mentioned in this section.

Configure VoIP/SIP Endpoints

This section is only for customers who are using VoIP networks and SIP to communicate with the cc: Survey server.

SIP trunk endpoints must be configured on the PBX to direct calls to the Survey server.

Below are sample SIP station configurations from an Asterisk PBX:

- type = peer
- host = (server IP address)
- username = (extension)
- secret = (password)
- dtmfmode = rfc2833
- insecure = very
- context = from-sip

Note: Some of the CallCopy integration documents may contain useful information on SIP trunk configuration.

Configure DNIS and ANI

For both VoIP/SIP and TDM/ISDN networks, the following PBX configurations must be set:

- A unique DNIS for each survey.
- Call routing to direct both direct calls (i.e., 1-800 calls from customers) and forwarded calls to the cc: Survey engine.
- A dial plan to pass the DNIS and the ANI (i.e., the originating caller or the transferring agent's PBX number -- either the Agent or the Extension) to the Survey engine.

Install and Configure cc: Survey

This section explains the tasks for installing cc: Survey.

Windows Server Tasks

Perform these tasks on the Windows server hosting cc: Survey.

Install the Server

The cc: Survey server is included with the base cc: Discover install package. Run the installer and select Survey as a feature to be installed. For more information, see the cc: Discover Installation Guide.

cc: Survey (cc_SurveyController.IVR.exe) and Logger (logger.exe) need to run in a user session. For Survey, no other .exes are needed. As an option, MSConfig can be used to have the user auto login and start cc: Survey.

Check INI Configuration

cc: Survey initialization settings are stored in the Settings.ini file used by the cc: Discover database. These settings **must** be configured for the proper operation of the server. The file is located in the base folder where the cc: Discover software was installed.

These are the configuration settings:

[surveys]

NumberOfSipChannels	Number of SIP channels.
NumberOfAudiocodesChannels	Number of voice board channels.
SIPEndpointPBXAddress	Endpoint IP address for the PBX.
OverrideInterfaceIP	IP address for SIP traffic to communicate to if the server has multiple IP addresses
RemotePort	Port that the PBX is listening for SIP on.

SurveyTransportType Possible values: UDP or TCP

MaximumDigitLengthForAPrompt Maximum number of digits the survey will expect to

collect.

PutANIInDigitString This is used if the PBX is not passing ANI/Survey ID

in the digit string. Possible values: Y or N.

SurveyEngineType All non-legacy survey servers should be

CCSURVEYENGINE. Possible values:

CCSURVEYENGINE or SOAP.

the question must be repeated. Possible values: Y or

N.

Install and Configure cc: Survey

DigitTimeOut Length of time Survey waits if the respondent has to

enter digits. Possible values: an integer representing

milliseconds (i.e., 3000 is 3 seconds)

SoapURL Only used by the legacy SOAP engine.

SoapWSDL Only used by the legacy SOAP engine.

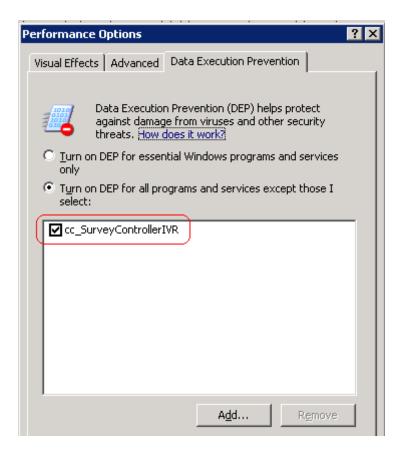
Add Survey Controller as an Allowed Application

Windows' Data Execution Prevention (DEP) setting helps protect against viruses and other security threats. The Survey Controller (cc_SurveyControllerIVR.exe) must be added to the DEP setting in order to perform remote data execution.

If this setting is NOT set, the IVR will respond with an "Access Violation" message on the respondent's phone, and the violation will also be logged in the CCSurvey-*.log files where * is the channel number.

Perform these steps on the Windows server:

- 1. Go to Control Panel > System > Advanced > Performance Settings > Data Execution Prevention.
- 2. Click Add.
- Navigate to the folder where the survey software was installed and select cc_SurveyControllerIVR.exe. Click OK. (If you are prompted to insert a disk, click Cancel and continue with this step.)



Default Files

These files are added to the server during the installation process. For the standard installation, they are located here: c:\Program Files\CallCopy\Recorder\Prompts.

- Invalid_Response.wav This file runs when a respondent enters an invalid response and if the RepeatQuestionAfterInvalid INI file option is enabled.
- A_Serious_Error_Has_Occurred_Goodbye.wav This file runs when an unknown error occurs when the survey is being taken.
- A_Valid_Option_Was_Not_Selected_Goodbye.wav This file runs when the DNIS selected by the agent does not match a survey.

Security

Permissions

Users must be granted the permissions to view, edit, and administer surveys. See the *cc: Discover Administration Manual* for further information.

These components need these permissions setup:

Install and Configure cc: Survey

- IIS account running cc: Discover Web Portal Read/Write permissions to the Audio Prompt Upload Directory and the Audio Recording Directory.
- Survey Module Read permission to the Audio Prompt Upload Directory. Write permission to the Audio Recording Directory.
- Reporting server Read permission to the Audio Recording Directory if respondents are allowed to leave audio responses to questions.

The install program set permissions needed for the database and other CallCopy modules.

Auditing

cc: Survey relies on cc: Discover's auditing function. No specific Survey-related actions or data are tracked.

Encryption

The audio prompt and audio response recordings are not encrypted. Typically, surveys should not provide respondents sensitive information or ask them to provide sensitive information.

Archiving

cc: Survey's audio files are not archived.

Survey Administration

Manage DNIS Values

A DNIS is a unique identifier that the phone system (PBX) sends to the survey application. The DNIS allows specific surveys to be associated with specific dialed numbers (DNIS). Using this methodology one survey engine can support an infinite number of unique surveys, each playing their own messages and asking for their own responses.

Add/Edit/Delete Values

Follow these steps to add DNIS values:

- 1. Log into the cc: Discover Web Portal and click Administration > Add-Ons > Surveys > DNIS List.
- 2. Click Add.
- 3. Enter a DNIS value and Comment value. The comment can be a client name or some explanation of how the DNIS will be used in the survey work.
- 4. Click the floppy disk icon to save the record.

Values can be edited or deleted by clicking the pencil and red X icons.

Import Multiple Values

Multiple DNIS values can be added at one time using a CSV file. For example, all the DNIS values used by your phones can be entered. This action avoids the repetitive work of entering values each time one or more is needed for a survey. Surveys are not applied to calls received through a DNIS until that DNIS is assigned to a survey form.

Entries in the CSV file must fit this format: DNIS, Comment. Each entry should be on a separate line. A CSV can also be created in an Excel spreadsheet. Some equipment export DNIS data as a file.

After creating the CSV file, follow these steps to import the DNIS values:

- 1. Log into the cc: Discover Web Portal and click Administration > Add-Ons > Surveys > DNIS List.
- 2. Click Import.
- 3. Browse to the location of the CSV file. Select it and click OK.
- 4. If the first row in the CSV file is NOT a header (i.e., it is a DNIS/Comment value), clear the File contains a header row option.
- 5. Click Upload File. Review the records that are ready for importing. If any of the records are not correct, click Cancel. Edit the file and repeat the import. Otherwise, go to the next step.
- 6. If the records are correct, click Import. The DNIS values appear as records in the list.

Specify Survey Audio Directory Settings

cc: Survey requires these two directories:

- Audio Prompt Upload Directory This is where messages and prompts are stored on the server's hard drive.
- Audio Recording Directory This is the location on the server's hard drive array where customer feedback recordings are stored.

The application needs these permissions to the directories.

Follow these steps to specify the settings:

- 1. Log into the cc: Discover Web Portal and click Administration > Add-Ons > Surveys > Survey Settings.
- 2. Enter full path names for both directories.
- 3. Click Save. The settings will be saved if the directory paths are correct, the directories exist, and the application has Create/Write permission for both directories.

Survey Forms

The Survey Form Editor enables you to create new surveys and edit existing ones.

To create a survey form, you must perform the tasks explained in this section.

Specify Survey Information

- 1. Log into the cc: Discover Web Portal and click Surveys > Form Editor.
- 2. Enter a Survey Name. This name appears in reports. For ease of use, form names should be unique and describe the survey.
- 3. Enter a Description.
- 4. Enter Min/Max Percentage Thresholds. Any survey whose score is below the minimum percentage is defined as "Negative." Any survey whose score is above the maximum percentage is defined as "Positive." Any score between the minimum and maximum thresholds is reported as "Neutral." These values appear on the Survey Summary and Survey Overview Reports.
- Select a Recording Format. This is the format of customer feedback messages that are recorded by the customer when completing a survey. The only supported format is GSM, which is a highly compressed WAV format.
 - Note: The Recording Path (Audio Recording Directory) and Upload Path (Audio Prompt Upload Directory) are specified on the Administration Survey Settings page. The Web Portal automatically creates a new folder for each survey. The folder is numbered according to the number of survey forms created (i.e., the tenth survey is placed in a folder number '10').
- 6. In the Available DNIS field, select the number whose calls will be directed to this survey. Click the top arrow to move the number to the Attached DNIS field.

Add a Section

The survey form is divided into sections consisting of one or more questions. A survey has to have at least one section, and all questions can be placed in that section. Sections can be an easy way to organize longer surveys. Sections do not affect how respondents experience the survey or the reporting of survey answers.

Follow these steps to add a section:

- 1. Click Add New Section.
- 2. Enter a section title.

Use the buttons to move sections and questions up or down or to delete them.

Create a Question

Follow these steps to create a question:

- 1. Click Add New Question.
- 2. In the Question #X Text box, enter the text of the question. This text is displayed as a label in the reporting engine. This text should correspond to the language within the recorded audio file associated with the question for consistency and future troubleshooting.
- 3. Select a Question Type. See the specific question types below for additional information.
- 4. Click Upload Audio File and navigate to the file with the question. This is the location of the recording audio file stored on the survey application survey's hard drive structure. These files can be copied to the server locations manually if you have access to the server's drive array.
 - Note: The preferred audio format for recorded audio prompts is mu-law 8K mono (G.711) WAV for VoIP based surveys and Linear 16 bit PCM, signed for T1 based surveys. Formatting audio properly ensures good quality playback of audio.
- 5. (Optional) Select the Mark Survey Complete option. This value marks a survey as being complete. You can require certain questions to be responded to in order for the data to be presented within reporting. For example, if you have a 5 question survey, and completing Question 4 marks the survey as "complete," the customer could hang up and not complete Question 5, yet the survey would still display the data within reporting. Question 5 would be scored as 0 out of the possible points for Question 5, in this example. Any survey not reaching Question 4 would be marked as "incomplete."
- 6. (Optional) Clear the Show-in-Reporting option. Use this option if you do not want this question included within the reporting values, such as greetings, closings, or transitions without responses. Otherwise, this question will display with no data responses.

Note: Response Type is currently not used by audio based surveys. This is reserved for future use within web browser based surveys.

Note: Possible Points is auto-calculated based on the highest response defined on the list of responses to questions of the type "Present Question and Wait for Result".

Type: Present Question and Wait for Result

This type can present

- A question and wait for touch-tone input. In this use, the audio file must state each possible response
 and corresponding touch-tone input value. Questions of this type usually need at least two responses.
- Information, such as instructions or a greeting, and advance automatically after a wait period configured in the server.

The following values are available for defining specific responses:

- Text -- Label of the response as it appears on reports.
- Point Value -- Value of the specific response selected. (Optional)
- DTMF -- This is the touch-tone input value for the response. Each DTMF field for a question must have a unique value.

• Next Question – After you have created other questions, you can return to set this option. You can select the next question presented in the survey based on the particular response.

Type: Collect Customer Information

This type allows the customer to leave detailed feedback in the form of a voice recording.

If you wish the customer to continue on with other survey questions after leaving verbal feedback, specify within the question audio file to press the "Pound or hash" sign to end the recording (#). This tone instructs the survey engine to continue processing the survey.

The survey recorder will continue recording until the respondent either hangs up or pushes the pound sign (#).

You have to set a Default Next Question. To do so, you have to create additional questions and then return to setting this option.

The voice recordings can be listened to from reports. The files can be accessed from the Audio Recording Directory.

Type: Collect Digits

This type is used to collect a specific digit string to be stored within the database. This is useful for collecting a customer ID or transaction number. The survey recorder advances when the respondent pushes the pound sign (#) or the wait period is reached.

Type: End Survey

Include this question/item at the end of a survey. After the audio file has executed, they survey session is ended, and the call is automatically disconnected.

Type: Threshold Branch

A Threshold Branch is not a question. It enables you to direct respondents to specific questions based on the cumulative score of earlier responses. Respondents do not know that they are being directed based on their responses, and no audio file has to be loaded for this type. Typically, you don't include a Mark Survey Complete option here unless you want to end the survey.

For this question type, these fields are available:

- Negative Percentage Threshold Surveys with a current percentage (current accumulated points/current total possible points) below this value are considered negative.
- Positive Percentage Threshold Surveys with a current percentage above this value are considered positive.
- Negative Next Question Next question for surveys that are currently negative.
- Neutral Next Question Next question for surveys that are between the Negative and Positive Thresholds.
- Positive Next Question Next question for surveys that are currently positive.

Save/Export/Delete Survey Forms

The Survey Form Editor allows you to

- Save This option saves and closes the form. After it is saved, the form appears in the Form Manager list.
- Save Draft The form is saved and appears in the Form Manager list as 'In Progress'.
- Delete Do not delete forms. If they are not needed, disable them on the Form Manager page.
- Export This option exports the form as an XML file. It can be imported on the Form Manager page.

cc: Survey auto-saves the form while you work with it. The Save Draft and Save options identify any missing required field data.

Survey Forms Management

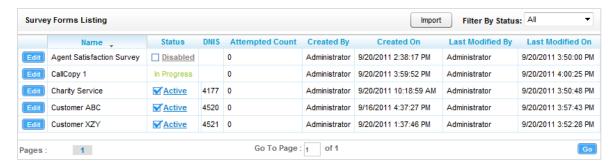
To see all existing forms in the Web Portal, click Surveys > Form Manager.

Select one of the options from the Filter By Status menu:

- All
- Active Surveys that are currently used.
- Disabled Surveys that are not currently used but can be made active.
- In Progress Surveys that require additional editing before they can be used.

From the Survey Form Listing, you can

- Click Edit to open the survey from in the editor.
- Change a form's status by selecting or clearing its Active/Disabled option.



The Attempted Count value indicates the number of respondents who have started the survey form.

The Import button can be used to load XML files and use them as Survey Forms. The files must be formatted exactly as those created using the Form Editor. Custom forms are not supported.

Reports

(See the cc: Discover Reporting Guide for additional information about the Reporting tab's functions.)

Survey reports can be accessed through the cc: Discover Web Portal. On the Reporting tab, click Printable Reports > Survey Reporting.

The Survey Reporting page lists the types of reports that can be created. The Date Created column shows the date that the template for the report type was created in the system.

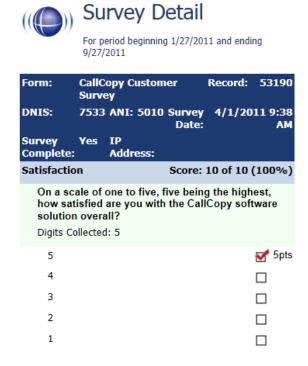
Reporting Criteria

You can use these criteria to specify the data included in a report. The criteria available vary by report.

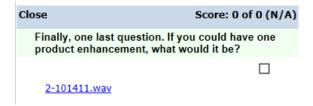
- Start/End Date Searched calls will have occurred during this date range.
- Record ID This is the survey database record ID.
- Surveys/Form ID One, multiple, or all survey forms can be selected.
- Survey Complete Surveys are either Complete or Incomplete based on whether the respondent reached a question that had the Mark Survey Complete option selected.
- ANI This is the respondent's telephone number. (Note: If the respondent was manually redirected to the survey by an agent, this number may not be accurate, depending on telephony equipment.)
- DNIS This is the number associated with the survey.

Survey Detail

This report shows one or more survey taker's complete responses.



If respondents left a voice message for a question, a link to the message file appears in the report. (Note: IP Address is not used at this time.)



Survey Overview

For each survey form in a time period, the report calculates the shown categories. Positive, Negative, and Neutral ranges are defined on the Survey Form specific information. If a survey form does not have any responses, it does not appear on the report.



Survey Overview

For period beginning Thursday, January 27, 2011 and ending Tuesday, September 27, 2011 $\,$

Name	Count	Complete	Incomplete	Positive	Negative	Neutral
CallCopy Customer Survey	12	11 (91.7%)	1 (8.3%)	4 (33.3%)	2 (16.7%)	4 (33.3%)

Survey Overview - 9/27/2011

CallCopy Recorder Reporting Service Page 1 of 1

Survey Summary

For each survey form in a time period, calculates these categories. If a survey form does not have any responses, it does not appear on the report.

- Score Total score of the survey responses and the total maximum possible score of a survey. The
 maximum possible score on a survey can vary based on the questions that a respondent is asked to
 answer. For example, one respondent may be asked to answer five questions with a total of 50
 points. Another respondent, based on his/her answers, will be directed through seven questions with
 a total of 70 points. This fact must be considered when designing surveys.
- Average Percentage (%) (Sum of each response's score)/((Sum of the possible score for each form)/Number of responses)



Survey Summary

For period beginning Thursday, January 27, 2011 and ending Tuesday, September 27, 2011

Name	Count	Complete	Incomplete	Positive	Negative	Neutral		Avg %
CallCopy Customer Survey	12	11 (91.7%)	1 (8.3%)	4 (33.3%)	2 (16.7%)	4 (33.3%)	76 of 90	80.8%

Survey Summary - 9/27/2011

CallCopy Recorder Reporting Service

Page 1 of 1

Example PBX Configurations

This section outlines *example* PBX configurations for T1s and trunk groups. This is not an inclusive list and CallCopy makes no guarantees that these configurations will work in your scenario. Please consult your PBX support or vendor for specific questions regarding your installation.

AVAYA

DS1 Circuit Pack

```
CC Avaya: display ds1 01v3 (page 2) 10/27/2008 5:29:20 PM

DS1 CIRCUIT PACK

ESF DATA LINK OPTIONS

Network Management Protocol: tabs
Send ANSI-T1.403 One-Second Performance Reports? n
Far-end CSU Address: b
```

Trunk Group Configuration

```
CC Avaya: display trunk-group 10 (page 3) 10/27/2008 5:28:47 PM
TRUNK FEATURES
            ACA Assignment? n Measured. n Maintenance Tests.

Internal Alert? n Maintenance Tests.

Data Restriction? n NCA-TSC Trunk Member:

Send Name: y Send Calling Number:
                                                   Measured: \underline{\text{none}} Wideband Support? \underline{\text{n}} maintenance Tests? \underline{\text{y}}
                                                                          Send Calling Number: y
               # Outpulsing? n Format: public UUI IE Treatment: service-provider
   Suppress # Outpulsing? n
 Outgoing Channel ID Encoding: preferred
                                                                  Replace Restricted Numbers? n
                                                                Replace Unavailable Numbers? n
                                                                  Send Connected Number: y Hold/Unhold Notifications? n
Network Call Redirection: none
                 Send UUI IE? \overline{\underline{y}}
                                                              Modify Tandem Calling Number? \overline{\underline{n}}
                   Send UCID? y
 Send Codeset 6/7 LAI IE? y
                                                                      Ds1 Echo Cancellation? n
                                                        US NI Delayed Calling Name Update? \underline{n}
                                      Network (Japan) Needs Connect Before Disconnect? n
                                                                           Apply Local Ringback? n
```

```
CC Avaya: display trunk-group 10 (page 2) 10/27/2008 5:28:47 PM

Group Type: isdn

TRUNK PARAMETERS

Codeset to Send Display: 6 Codeset to Send National IEs: 6 Charge Advice: none
Supplementary Service Protocol: a Digit Handling (in/out): enbloc/enbloc

Trunk Hunt: cyclical

Incoming Calling Number - Delete: Insert: Format:

Bit Rate: 1200 Synchronization: async Duplex: full

Disconnect Supervision - In? y Out? n

Answer Supervision Timeout: 0
```

eOn eQueue

The following screenshots layout trunk configurations on an eOn eQueue.

T1 Line Assignment

```
Add Change Delete
                                             Print Quit
                    Port [01.15.01 ]
                                          Name [PRI TEST 1.15.1 ]
Number [E1750101]
 Line Info 1 [
 Type [TRUNK] COS [1 ]
                                Group [1
                                                    CallZone [ ]
                                                         ] VAN Grp [
Msg Lamp [O
 Port Class [4
                     T1 Class [5
                                       Password [
      Lamp [O
                     Aux Lamp [O
                                    ] Lamp Type [O ]
 Port Comm. [
 Hotline/Direct In Number
 Ring no Answer default
                                FORWARDS
             Busy [
                              Active [N ]
                                                         Internal ? [N ]
                                           Delay [ ]
              RNA [
                              Active [N ]
        All Calls [
 Forward Setup Allowed
                          Internal [N ] External [N
                                                           F1 = HELP
Find an assignment
```

T1 Class

```
Rev:7.00.00-b01 equeue-a
ind Next Back Add Change Delete
                                             Print Quit
     T1 Index
                                      [ISDN W/D NETWORK ]
     Name
                                      [ESF ]
[B8ZS ]
     Protocol (ESF/D4/TR8)
     Zero Suppression (AMI/B8Z)
     Default CSU (P/S)
     ISDN Signaling (Y/N)
     Clear D-Channel (Y/N)
     Maintenance Channel Format (0/1)
     Network or User (N/U)
                                      [N]
     Line Build Out
                                                          F1 = HELP
Find an assignment
```

Port Class

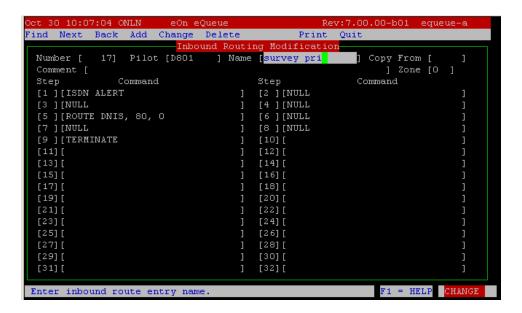
```
ind Next Back Add Change Delete
                                           Print Quit
   Port Class No. [ 4] Name [ISDN B CHANNEL ] Type [ 14]
   Pad Value 1000 Rx [ 0] Tx [ 0] 2000 [ 0]
   Shelf Parameters :
   Inbound Setup
                             Outbound Setup
                                              Release Protocol
                       [N ]
                            Tx Ring [N ]
Rx Ack [N ]
Rx Ans [N ]
   Rx Ring
                                              Can't be Released
   Tx Ack
                                              Re-Seize Guard Timer [
   Decoder
                             Tx Blck [N ]
   No Answer on CONNECT [N ]
   Electr. Set [N ]
                        Can Sup Inbound
                                          [Y]
                                                     Nailed
                                                                  [N]
                        Can Sup Outbound
   Aux Line
              [N]
Find an assignment
                                                         F1 = HELP
```

ISDN Group

ISDN Parameter

```
30 10:05:05 ONLN
                                                Rev:7.00.00-b01 equeue-a
                                           Print Quit
Find Next Back Add Change Delete
                             [NI SERV EXPL CH ]
    Number [
                     Name
    Protocol Variant
                                   [NIS]
    Implicit Channel Identifier
                                   [N ]
    Release vs Disconnect
                                   [N]
     Trunk Release (Transfer)
                                   [N]
    Protocol Test Mode
                                   [N ]
    UUI Option
    QSIG Name Delivery
                                   [N]
    QSIG
          Trunk Release (Forward)
                                   [N]
     QSIG
          Message Waiting
                                   [N ]
    Default Values :
                                     DNIS Plan
    DNIS Type
    ANI Type
                                     ANI Plan
                                     Bearer
Find an assignment
                                                        F1 = HELP
```

Hotline



Nortel

The following are sample configurations from a Nortel Option 11, LD screen 22:

```
CTYP MSDL
DNUM 8
PORT 1
DES CC_SVY
USR PRI
DCHL 19
OTBF 32
PARM RS422 DTE
DRAT 64KC
CLOK EXT
IFC NI2
 ISDN_MCNT 300
CLID OPT0
CO_TYPE STD
SIDE NET
CNEG 1
RLS ID 25
RCAP COLP NDS
T310 120
T200 3
T203 10
N200 3
N201 260
K 7
BSERV NO
```

About CallCopy

CallCopy, a leading provider of innovative call recording and contact center solutions, is dedicated to ensuring the highest standards of customer and employee satisfaction. The award-winning, enterprise-proven cc: Discover suite delivers advanced call recording, screen capture, quality management, speech analytics, performance management, customer survey and workforce management capabilities to organizations of all sizes and industries across the globe.

CallCopy empowers these organizations to gather business intelligence, which is leveraged to maximize operational performance, reduce liability, achieve regulatory compliance and increase customer satisfaction.

For more information, visit www.callcopy.com.