

# UPTIVITY SURVEYS TDM ADMINISTRATION GUIDE, V<sub>5.4</sub>

April 2014

Reference Guide

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

Revision History		
Revision	Change Description	Effective Date
0	Added ini setting: RepeatQuestionDigit=# Controls which digit the caller can press to repeat the question. If no digit is set, the default is #.	2014-04-30

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# **Table of Contents**

Introduction	6
Product Technical Overview	
Requirements	9
PBX	9
TDM/ISDN Supported PBXs	9
Hardware, Software, and Licensing	9
Uptivity	9
Hardware	9
Software	9
Licensing	9
Performance Guidelines	10
Survey Call Linking	10
AudioCodes Configuration	11
Wiring Example	11
Configure the Al-Logix Board	12
Verify Board Service	13
PBX Configuration	14
Configure DNIS and ANI	14
Configure UCID for Survey Call Linking	14
Install and Configure Uptivity Surveys	16
Windows Server Tasks	16
Install the Server	16
Register Service	16
Check INI Configuration	17
Add Survey Controller as an Allowed Application	18
Install Default Files	18
Web Portal Tasks	19
Add the Application to the Discover Service Manager	19
Enable Survey Score Column in Call Lists	19

Survey Call Linking (Optional)	19
Install the Surveys TSAPI Script	19
Update the Settings.ini File	20
Post-Survey Call Linker (Optional)	21
Check INI Configuration	22
Register Service	23
Add the Application to the Discover Service Manager	23
Security	24
Permissions	24
Auditing	24
Encryption	24
Archiving	24
Surveys Administration	25
Manage DNIS Values	25
Add/Edit/Delete Values	25
Import Multiple Values	25
Specify Surveys Audio Directory Settings	26
Manage Surveys	26
Create Survey	27
Add a Section	28
Add a Question	28
Question Types	30
Threshold Branch Example	31
Search Attempted Surveys (Form Search)	32
Reports	33
Reporting Criteria	33
Survey Detail	34
Survey Detail Summary	35
Survey Overview	35
Survey Summary	36
Survey Summary by Agent	37

Survey Summary by Question	38
Survey Summary by Response	39
PBX Configuration Examples	41
AVAYA	41
DS1 Circuit Pack	41
Trunk Group Configuration	42
Vector Programming/Automatic Transfer	44
eOn eQueue	46
T1 Line Assignment	46
T1 Class	46
Port Class	47
ISDN Group	47
ISDN Parameter	48
Hotline	48
Nortel	49
About Uptivity	50

# Introduction

This document is for Uptivity Surveys system administrators, supervisors, and managers, and assumes a basic level of familiarity with Discover, the PBX integration in use, the Windows OS, and the network in place at the customer site. It explains the customer-premise based version of Uptivity Surveys with TDM and covers:

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

#### Notes

Discover allows administrators to customize field names and terminology in the Web Portal to fit your unique environment. Therefore, screen examples and field names used in this manual may differ from those seen in your implementation.

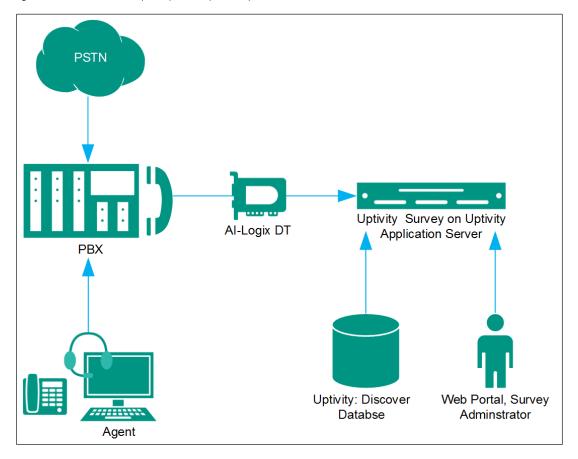
Prior to v<sub>5.4</sub> of the Discover Software Suite, Uptivity Surveys was known as cc: Survey.

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

6

# **Product Technical Overview**

This diagram illustrates the Uptivity Surveys components and interactions.



Component	Function
Callers via PSTN or Agents	<ul> <li>Surveys can be set up to handle calls three ways:</li> <li>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.</li> <li>Agents can transfer callers to the survey engine via the PBX.</li> <li>Agents can terminate a call and caller is automatically transferred to the survey. This option is dependent on PBX capabilities and configuration.</li> </ul>
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.  For each call, the PBX can send the survey engine the:  DNIS  Caller number or Agent/Extension number as an ANI
Al-Logix DT	For a TDM network, Surveys connects to the PBX/ACD via a T1 trunk. This setup requires an Al-Logix DT voice board.
Uptivity Surveys	Surveys consists of the survey engine that executes the survey forms and audio files, records respondent input and call information to the database, and records respondent voice comments to WAV files.  The directories for the survey form, audio prompts, and verbal response files are located on this machine in most installations, although they can be located on a different machine.  Surveys and Discover can be hosted by the same machine or separate machines. Surveys can also be deployed without Discover call recording.
Discover Web Portal	<ul> <li>Administrators, system administrators, and managers use the Web Portal to</li> <li>Create and manage survey forms.</li> <li>Configure and manage the server and user permissions.</li> <li>Review survey results, reports, and respondent audio responses.</li> </ul>
Discover Database	Call information and respondent input and responses are recorded in this database as survey records. Reports are generated from these records.

# Requirements

#### **PBX**

### **TDM/ISDN Supported PBXs**

All PBXs are supported but require an Al-Logix DT voice board. For feature restrictions, see Survey Call Linking.

#### Hardware, Software, and Licensing

Hardware and software requirements vary by PBX.

# **Uptivity**

Surveys can be deployed with Discover by Uptivity on the same machine, on a separate machine, or as a standalone product (i.e., no call recording). See the *Discover by Uptivity Requirements* for additional requirements information.

#### Hardware

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

AudioCodes DT6409 (dual-span) T1 terminate board. Only one of the ports is used. This is a full-height, full-length card, so the customer-supplied server must be able to accommodate it.

#### **Software**

This guide covers:

Discover by Uptivity, v5.4

This integration requires the following software:

• AudioCodes SmartWORKS v5.2 or higher

#### Licensing

Contact your Uptivity representative for licensing information.

#### **Performance Guidelines**

The following are general performance guidelines for this product.

- Only one PBX can use the Surveys server
- A dedicated Surveys server can safely handle 240 channels. The number of channels is limited by the number of voice boards supported by the server hardware.
- One survey channel should be considered the same as one concurrent recording when calculating server
  performance and capacity needs. The number of survey channels needed varies based on length of survey,
  acceptance rate, caller engagement, whether callers leave audio messages, etc.

#### **Survey Call Linking**

This feature is supported only for installations using Avaya TSAPI and TDM trunks.

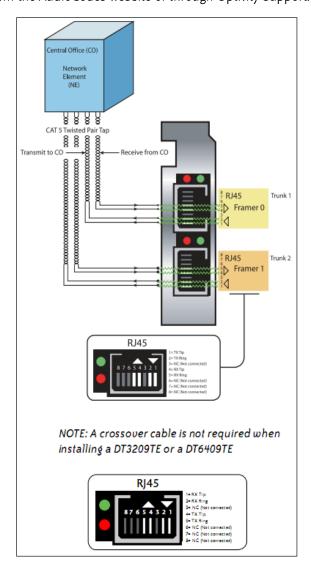
# **AudioCodes Configuration**

Uptivity uses AudioCodes Al-Logix DT-series boards to provide terminate connections to the customer PBX.

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

# Wiring Example

A wiring diagram example 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 AudioCodes documentation, available from the AudioCodes website or through Uptivity Support.



# **Configure the Al-Logix Board**

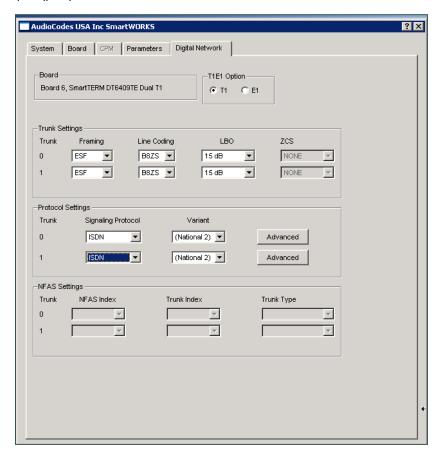
The board settings must match those on your PBX. For details, see PBX Configuration Examples.

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

To configure the SmartWORKS board:

- 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 and confirm the TDM Encoding setting is  $\mu$ -Law.
- 3. Click the Digital Network tab.
- 4. Under Framing, select ESF from the drop-down list.
- 5. Under Line Coding, select B8ZS from the drop-down list
- 6. Under Signaling Protocol, select ISDN from the drop-down list.
- 7. Under Variant, select National 2 (NI2) from the drop-down list.

This screenshot shows the configuration of a T1 on a dual-port board serving two T1s. Most Surveys systems will have only a single span (port) available.



# **Verify 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 > AI-Logix > SmartWORKS > SmartView**.

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

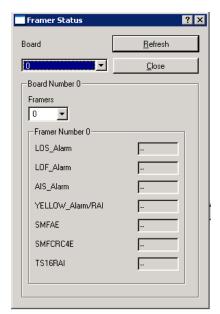
At this point the system is set up to operate and capture events. To verify the board is in service, alarm states should be checked. You can use these states to verify that the T1 layer is configured and connected cleanly to the CPE.

To view alarm states:

Click Framer Statistics and select MTGetFramerAlarmStatus.



The following alarm screen is initiated. Any alarm value of greater than 0 (or --) is indicative of a wiring or configuration issue. Refer to AudioCodes documentation, available from the AudioCodes website or through Uptivity Support, for troubleshooting.



# **PBX Configuration**

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

# **Configure DNIS and ANI**

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 Surveys 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 Surveys engine.

# **Configure UCID for Survey Call Linking**

Note This section applies only in Avaya TSAPI environments.

In order for survey call linking to work properly, the Avaya CM must be configured to send UCID to the Uptivity core so that it is captured on every call. This can be set up from the CM console. To configure this:

- 1. Log into the CM.
- 2. Run the following command: change system-parameters features
- 3. Browse to and set the following settings to Y:
  - Create Universal Call ID (UCID)?

```
change system-parameters features
                                                                 Page
                                                                        5 of 19
                        FEATURE-RELATED SYSTEM PARAMETERS
SYSTEM PRINTER PARAMETERS
  Endpoint:
                          Lines Per Page: 60
SYSTEM-VIDE PARAMETERS
                                      Switch Hame: CallCopy
            Energency Extension Forwarding (min): 10
          Enable Inter-Gatevay Alternate Routing? y
                                                      IGAR Over IP Trunks: skip
Enable Dial Plan Transparency in Survivable Mode? <u>n</u>
                              COR to Use for DPT: station
MALICIOUS CALL TRACE PARAMETERS
               Apply HCT Varning Tone? n
                                            MCT Voice Recorder Trunk Group:
      Delay Sending RELease (seconds): 0
SEND ALL CALLS OPTIONS
     Send All Calls Applies to: station
                                            Auto Inspect on Send All Calls? n
              Preserve previous AUX Work button states after deactivation? n
UNIVERSAL CALL ID
     Create Universal Call ID (UCID)? U
                                            UCID Network Node ID: 4
```

Send UCID to ASAI?

```
change system-parameters features
                                                                Page 13 of 19
                        FEATURE-RELATED SYSTEM PARAMETERS
 CALL CENTER MISCELLANEOUS
           Callr-info Display Tiner (sec): 10
                         Clear Callr-info: next-call
        Allow Ringer-off with Auto-Answer? n
    Reporting For PC Non-Predictive Calls? n
            Agent/Caller Disconnect Tones? n
          Interruptible Aux Notification Timer (sec): 3
             Zip Tone Burst for Callmaster Endpoints: double
  ASAI
            Copy ASAI UUI During Conference/Transfer? n
        Call Classification After Answer Supervision? u
                                  Send UCID to ASAI? u
          For ASAI Send DTMF Tone to vall uriginatory u
```

4. Save the changes.

# **Install and Configure Uptivity Surveys**

This section explains the tasks for installing Surveys. Surveys **must** be deployed on the server where the AI-Logix board and AudioCodes SmartWorks software were installed. This can be:

- On the same machine as Discover Only the instructions in this section are needed.
- On a separate machine from Discover
  - Complete the instructions in this section.
  - Install the Discover Logger service (Logger.exe) and CometDaemon.
  - On the Discover Web Portal machine, create a new Server Node and CometDaemon entry for the Surveys machine.
  - Add the Surveys machine and both the Logger and Surveys to the Service Manager in the Web Portal.
- Without call recording Complete the Discover installation, skipping tasks for call recording.

Check the Discover by Uptivity Installation Guide and Discover by Uptivity Administration Manual for instructions on the above tasks.

#### Windows Server Tasks

Perform these tasks on the Windows server hosting Surveys.

#### Install the Server

The Surveys server is included with the base Discover install package. Run the installer and select Base Installation. For more information, see the *Discover by Uptivity Installation Guide*.

#### **Register Service**

To ensure normal survey operations, the survey engine should be registered as a service on the Windows server:

Open a Command Prompt window on the Windows server. Change to the Recorder directory and run the following command:

```
cc_SurveyControllerIVR.exe -install
```

If successful, a dialog box will appear and display the message "Service installed successfully."

# **Check INI Configuration**

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

These are the configuration settings:

[surveys]	Description
NumberOfAudiocodesChannels=	Number of voice board channels. Required for TDM.
MaximumDigitLengthForAPrompt=1	Maximum number of digits the survey will expect to collect. Optional setting, used when you want to be able to have answers that are more than one digit.
PutANIInDigitString=	Optional setting, used when the PBX isn't sending an ANI*DNIS string, it is only sending a DNIS string. Possible values: Y or N.
SurveyEngineType=	All non-legacy Surveys servers should be CCSURVEYENGINE.  Possible values: CCSURVEYENGINE or SOAP. Optional for current versions, it defaults to CCSURVEYENGINE if not set.
RepeatQuestionAfterInvalid=N	Used if there is an Invalid_Response file setup and the question must be repeated. Possible values: Y or N. Optional setting, used when you want to repeat the question when an invalid digit is pressed.
RepeatQuestionDigit=#	Controls which digit the caller can press to repeat the question. If no digit is set, the default is #.
DigitTimeOut=3000	Length of time Surveys waits if the respondent has to enter digits.  Possible values: an integer representing milliseconds (i.e., 3000 is 3 seconds). Optional setting, used when you want to increase the time the survey waits to collect digits on the collect digit survey type.
SoapURL=	This setting has been deprecated; only required for legacy SOAP engine.
SoapWSDL=	This setting has been deprecated; only required for 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.

To configure this setting:

- 1. Go to Control Panel > System > Advanced > Performance Settings > Data Execution Prevention.
- Click Add.
- 3. 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.



#### **Install Default Files**

Default files are available from the Uptivity installation team. Manually create the Prompts folder in the Recorder directory and copy the default files into it.

#### **Web Portal Tasks**

#### Add the Application to the Discover Service Manager

To add the service to the Service Manager:

- 1. Click the Discover **Administration** tab and expand **Tools** in the left navigation menu.
- 2. Click Service Manager.
- 3. Expand the Server Node and click **Add Application**.
- 4. Under Application, enter the name of the service: CallCopySurveyControllerService.
- 5. Select Yes from the drop-down list under Auto-Restart.
- 6. Click Save.

**Note** Discover normally requires that the Application Name be entered as an exact match for the corresponding EXE file. This service is an exception to that rule.

#### **Enable Survey Score Column in Call Lists**

This task can be performed as part of the Surveys installation or by each user according to their preferences.

- 1. Log into Discover.
- 2. Click the Web Player tab and then click the Call List sub-tab.
- 3. Click **Settings** in the upper-right corner.
- 4. Under Other Columns, select the check box for Survey Score.
- 5. Click Save.

# **Survey Call Linking (Optional)**

**Note** This feature currently works only with TDM Surveys installations in Avaya TSAPI environments that have been configured to send UCID to the Discover Core for every call.

## **Install the Surveys TSAPI Script**

- Browse to the directory containing cc\_SurveyControllerIVR.exe, typically C:\Program Files
  (x86)\CallCopy\Recordings.
- 2. Create a **Scripts** folder in that directory.
- 3. Obtain the correct script file from Development and copy it to the **Scripts** folder.

#### **Update the Settings.ini File**

1. Locate a transfer to Surveys in the Avaya TSAPI channel events log. You should see the trunk identifier (trunkGroup\_#=#) in the message. Refer to the example below.

2. Add the following entries to the settings.ini file (in C:\Program Files (x86)\CallCopy). The "AvayaTsapi" settings must be the same as those set on the Avaya TSAPI CTI module of the Discover Core that is recording the calls being transferred.

[settings]	
modules=	Value should be <b>AvayaTsapi</b> .
[AvayaTsapi]	
Servername=	Refer to customer's TSAPI CTI module settings.
serverusername=	Refer to customer's TSAPI CTI module settings.
serverpassword=	Refer to customer's TSAPI CTI module settings.
tsversion=	Refer to customer's TSAPI CTI module settings.
privatedatatype=	Refer to customer's TSAPI CTI module settings.
vdns=	VDN(s) used to transfer calls to the IVR; if more than one, separate them with a comma.
groups=	Add any hunt groups in order to get agent logins; if more than one, separate them with a comma
[scripting]	
recordingmatchcolumn=	Set to match the column being used to store UCID, which is required to link surveys. The default column for TSAPI is user8.

[Surveys]	Settings for the IVR, the channel settings alter what number the board is treated as. This way we can match TSAPI info to the board and channel from IVR.
NumberOfAudiocodesChannels=	Customer should provide the number of audio channels they are using.
PutANIInDigitString=	Should be set to Y.
ChannelOBoardTrunk= Channel1BoardTrunk=	Defined in the first step in this section. Enter the corresponding value for each channel. If there are multiple trunks, you will need to find the identifier for that trunk and repeat this sequence for the channels that relate to that trunk.

# **Post-Survey Call Linker (Optional)**

Post-Survey Linker is an additional means of linking call records and surveys. Linking is done after the call is recorded and the survey is completed. You can use Post-Survey Linker if:

- Linking was not performed when the survey service was first used.
- The survey service could not complete the linking because the process was interrupted while the survey was being done.
- The call recording record was not written to the Uptivity database when the survey was completed. The Surveys engine has to link the agent to the survey. Surveys always adds the agent to the survey record. If the recording is not yet written to the database the Surveys engine cannot link the records.

Post-Survey Linker will attempt to link all surveys in the database that have the required data values. The time for this initial processing depends on the number of surveys in the database. The performance impact is minimal and can be controlled by INI file settings. Once the Linker has checked a survey, it will not check the survey again.

The Linker should be used as a supplemental, not primary, means of linking. The Surveys service uses CTI data that assures most surveys/calls will be linked accurately. That CTI data is not available to the Linker service. In addition, the Linker service is slower than the Surveys service. Actual performance is system dependent.

No conflicts will occur if both survey linking and Post-Survey Linker are run on the same machine. Linker does not try to link surveys that are already linked to a recording.

For Post-Survey linker to work:

- Customers must understand the CTI data their ACD/PBX provides for the call and survey records. Not all CTI integrations provide the necessary data.
- The call recording script must be updated to remove all hyphens from the ANI values.

Post-Survey linker does not have to run on the same machine as the Surveys engine but should for ease of administration.

#### **Check INI Configuration**

Post-Survey Linker initialization settings are stored in the PostSurveyLinker.ini file. These settings **must** be configured for the proper operation of the service. The file is located in C:\Program Files (x86)\CallCopy\Recorder\PostSurveyLinker.

You must configure at least one linking method. You can use all methods, and you can use multiple instances of a method. The Linker uses the first method that matches a survey/call records' data. Therefore, methods should be entered in the INI file from most preferred to least preferred.

These methods can be used:

• SurveyStartTimeAndMatchColumnToSurveyANI: Matches survey start time/call record end time and a configured Match column from the Recordings table. It must match both settings to link. For example, if the survey starts five seconds after the call end and the threshold is set to 10, but the matchColumn value doesn't produce a match, the survey and call are not linked. The opposite is also true: if the column matches but the time threshold is not valid, no linking will occur. The settings required for this method are:

```
recordingTimeTolerance=10
matchColumn=
```

• SurveyStartTimeAndAgentID: Matches survey start time/call record end time and Agent ID. The setting required for this method is:

```
recordingTimeTolerance=10
```

The suggested time tolerance is 10 seconds. Post-Survey Linker will search plus-or-minus by this value. For example, if the tolerance is set to 10 seconds, Linker will search for surveys to link that have start times within ten seconds before or ten seconds after the end of the call. The wider the range, the less accurate the results may be. Also, if the server running the Surveys module is not time-synched to the server running Discover, or is in another time zone entirely, linking will be difficult if not impossible. The match column can be any column from the call recordings table. The suggested column is Device ID or ANI.

These are the configuration settings:

[postSurveyLinker]	
maxSurveysReturned=	Limits the number of records queried from the database. Looks for oldest records first and tracks the last record checked. This check persists through any shutdowns. Value is stored in a local file which can be deleted if you want to re-run Post-Survey Linker.
Period=	Frequency (in minutes) that Linker checks for survey records.

linkMethods=	Number of link method entries in the ini file. If this value is less than the number of configured methods, some methods will not be used. For example, if this value is two and three methods are configured, only the first two will be used.	
[linkMethod_0]		
type=	Possible value: one of the linking methods	
	Method settings.	
[linkMethod_X]		
type=	Possible value: one of the linking methods	
	Method settings.	

#### **Register Service**

To ensure normal operations, Post-Survey Linker should be registered as a service on the Windows server:

Open a Command Prompt window on the Windows server. Change to the CallCopy Recorder\PostSurveyLinker directory and run the following command:

```
postSurveyLinker.exe -svcinst -autostart
```

If successful, the Command Prompt window will display the message "Service Installed."

# Add the Application to the Discover Service Manager

To add the service to the Service Manager:

- 1. Click the Discover **Administration** tab and expand **Tools** in the left navigation menu.
- 2. Click Service Manager.
- 3. Expand the Server Node and click **Add Application**.
- 4. Under **Application**, enter the name of the service: postSurveyLinker.exe.
- 5. Select Yes from the drop-down list under Auto-Restart.
- 6. Click Save.

# **Security**

#### **Permissions**

Users must be granted permissions to work with surveys. See the "Permissions Definitions" section of the *Discover by Uptivity Administration Manual* for further information.

**Note** Group permissions are not enforced by Surveys. A user who has access to Surveys reports can see survey results for any agent.

These components need these permissions setup:

- IIS account running Discover Web Portal Read/Write permissions to the Audio Prompt Upload Directory and the Audio Recording Directory. If Surveys is installed on a **separate machine** from Web Portal, the IIS account must be a service account with explicit read/write access to the prompts and recordings directories on the Surveys server.
- Surveys 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 Uptivity modules.

#### **Auditing**

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

## **Encryption**

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

## **Archiving**

Audio files used and created by Surveys are not archived.

# **Surveys Administration**

# Manage DNIS Values

A DNIS is a unique identifier that the phone system (PBX) sends to Surveys. 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

To add DNIS values:

- 1. Log into the Discover Web Portal.
- 2. Click the Administration tab and then click the Add-Ons sub-tab.
- 3. Expand Surveys in the left navigation menu and click DNIS List.
- 4. Click Add.
- 5. On the new line, enter values under **DNIS** and **Comment**. The comment can be a client name or some explanation of how the DNIS will be used in the survey work.
- 6. Click the 🔲 icon to save.

Values can be edited by clicking the 

✓ icon or deleted by clicking the 

× icon.

#### **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 be created in an Excel spreadsheet. Some telephony equipment will export DNIS data as a file.

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

- 1. Log into the Discover Web Portal.
- 2. Click the Administration tab and then click the Add-Ons sub-tab.
- 3. Expand Surveys in the left navigation menu and click DNIS List.
- 4. Click Import.
- 5. Browse to the location of the CSV file, select it and click **OK**.
- 6. 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 check box.
- 7. 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.
- 8. If the records are correct, click Import. The DNIS values appear as records in the list.

# **Specify Surveys Audio Directory Settings**

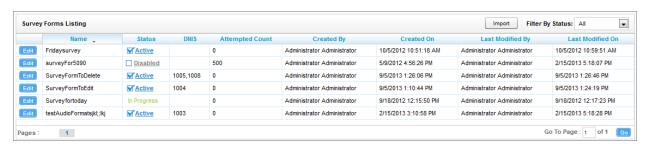
Surveys requires these two directories, and the application must have Create/Write permission for both:

- 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.

#### To specify these directories:

- Create the directories in the file system (for example, C:\SurveyPrompts). Discover does not require specific names for these directories.
- 2. Log into the Discover Web Portal and click the **Administration** tab, then click the **Add-Ons** sub-tab.
- 3. Expand Surveys in the left navigation menu and click Survey Settings.
- 4. Enter full path names for both directories.
- 5. Set the Survey Audio Format to T1.
- 6. Click Save.

# **Manage Surveys**



Click the **Surveys** tab in the Discover Web Portal. This tab will only be available if you have been assigned at least one of the survey-related permissions. For more information about permissions, see the "Permissions Definitions" section in the *Discover by Uptivity Administration Manual*.

If you have permission to edit surveys, **Manage Surveys** will be available. Clicking this selection will display a list of surveys in your system, as shown above, and enables you to do the following tasks.

- The default view shows all active surveys in the system. You can alter this view by using the Filter by Status drop-down. The choices available are All, Active, Disabled, and In Progress.
- To edit the survey delivery information or survey form content, click the **Edit** button to the left of the survey name. This will launch the **Survey Editor**. For details, see <u>Create Survey</u>.
- To quickly change the status of a survey from Disabled to Active (or vice versa), click the check box in the Status column. Survey status can also be changed in the Survey Editor.
- 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.

## **Create Survey**

**Create Survey** will be available if you have permission to edit surveys. Uptivity recommends creating survey questions, responses, and actions on paper before trying to create the form. Be sure to allow for these special circumstances:

- Invalid Responses: You can record a WAV file called Invalid\_Response and place it in the Prompts folder in the same directory as the Surveys executable. When Surveys is configured with the Repeat Question After Invalid setting as Yes, this file will play and the question will repeat whenever the caller enters a digit that is not in your list of valid responses. For related information, see <a href="Check INI Configuration">Check INI Configuration</a>.
- Question Repeats: Sometimes callers may simply want to have a question repeated. You can accomplish this by instructing them to enter a digit that is not on your list of valid responses, which will force them into the Invalid Response protocol. Be sure that your recorded Invalid\_Response message takes both scenarios into account so that callers are not confused.

To build your survey in the application:

- 1. Click the **Surveys** tab.
- 2. Click Create Survey in the left navigation menu. The Survey Editor will appear.
- 3. Enter a **Survey Name**. This name appears in reports. Best practice is to create form names that are unique and descriptive of the survey. You may also wish to include a version number.
- 4. Enter a **Description** if desired.
- 5. Enter the Min Percentage Threshold and Max Percentage Threshold. 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.
- 6. Select a **Recording Format**. The Surveys module supports questions that allow the customer to record a verbal answer. This item allows you to select the file format for these recordings. The only supported format is GSM, which is a highly compressed WAV format.
  - **Note** For more information on the storage location for these recordings, see <u>Specify Surveys Audio</u> <u>Directory Settings</u>. A new folder is automatically created for each survey. Folders are numbered according to the number of survey forms created (i.e., the tenth survey is placed in a folder numbered '10').
- 7. In the **Available DNIS** field, select the number(s) from which calls will be directed to this survey. You can select multiple consecutive numbers by shift-clicking, or multiple non-consecutive numbers by CTRL-clicking. Click to move the number to the **Attached DNIS** field. Similarly, you can click to remove numbers from the **Attached DNIS** field.

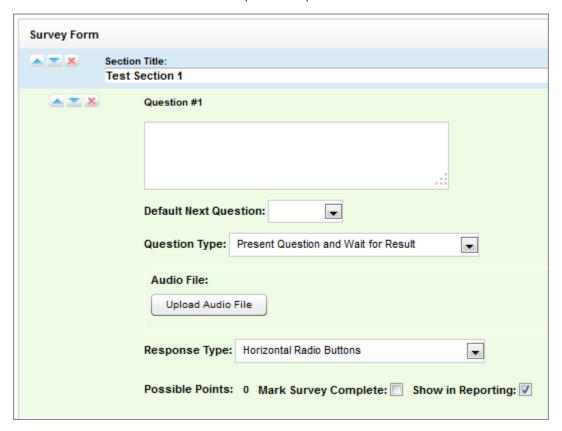
Survey content is organized by section, question and response. A survey must have at least one section, and all questions can be placed in that section. Using multiple sections can help you organize longer surveys.

#### Add a Section

To create or add a section in the Survey Editor:

- 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.



## Add a Question

To add a question in the Survey Editor:

- 1. Click Add New Question.
- 2. Enter the text of the question in the text box. Your entry should be the text within the question's recorded audio file for consistency and future troubleshooting.
- 3. **Default Next Question** allows you to specify the next question that will be presented in the survey.
- 4. Select a **Question Type**. For additional information about question types and corresponding response options, see <u>Question Types</u>.

- 5. 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 location manually if you have access to the server's drive array. The supported formats are:
  - WAV container encoded in GSM, u-Law or PCM16
  - VOX 8k/6k
  - AU container encoded in u-Law
  - CSA mono/stereo

During upload to the site, they will be converted to one of the following formats:

Survey Type	T1-Based
Bit rate	128kbps
Audio sample size	16-bit (Linear)
Channels	ı (mono)
Audio sample rate	8kHz
Audio format	PCM

- 6. **Response Type** is not used by audio-based surveys. This is reserved for future use within web browser-based surveys.
- 7. (Optional) Check the Mark Survey Complete check box. 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."
- 8. (Optional) Clear the **Show-in-Reporting** check box if you do not want this question included within the reporting values. Since the system considers greetings, closings, or transitions without responses to be "questions", it might be appropriate to clear this check box for these items. Otherwise, this question will display with no data responses.

**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**.

- 9. Select from the buttons at the top of the Survey Editor:
  - Export: Exports the survey form as an XML file.
  - **Delete:** Removes in-progress forms while you're working on them. Do NOT delete forms that have been used; disable them using the **Form Manager** instead.
  - Save Draft: saves your form and lists it as "In-Progress" in the Form Manager.
  - Save: saves and closes the form, after which it will appear in the Form Manager.

**Note** Surveys auto-saves the form while you work with it. The **Save Draft** and **Save** options identify any missing required field data.

# **Question Types**

Question Type	Used To:	Response Values	
Present Question and Wait for Result	<ol> <li>Convey greeting, closing, instructions or other information, and automatically advance after a wait period (defined at the time of installation in the cc_surveylvrFX.ini file)</li> <li>Present a question and wait for touch-tone input</li> </ol>	<ol> <li>Response Text: enter the text of the response</li> <li>Point Value (optional)</li> <li>DTMF: touch-tone input value for response (e.g. 1 for Yes, 2 for No, etc.); each response must have a unique DTMF value</li> <li>Next Question: allows you to direct the survey based on response (e.g. Yes leads to Question 3, No to Question 4)</li> </ol>	
Collect Customer Information	Allow the customer to leave detailed feedback in the form of a recording. Recording length is bound only by available disk space. Recording continues until customer disconnects or presses "#" as instructed in your question audio file. Voice recordings are playable from within reports, and/or can be accessed from the Audio Recording Directory.		
Collect Digits	Allow the customer to leave a string of numeric values (e.g. transaction number, customer ID) using his/her touch-tone keypad. Survey advances when the caller presses "#" as instructed in your question audio file, or after the wait period (defined at time of installation in the cc_surveylvrFX.ini file)		
End Survey	Convey closing message. Call automatically disconnects after execution of this audio file.		
Threshold Branch	Direct respondents to specific questions based on cumulative score of earlier responses. Requires no audio file. Transparent to caller. Typically not appropriate for the Mark Survey Complete option. An example of this type of question and the associated logic is shown below.	<ol> <li>Negative Percentage Threshold: surveys with current percentage below this value are negative (current accumulated points/current total possible points)</li> <li>Positive Percentage Threshold: surveys with current percentage above this value are positive (current accumulated points/current total possible points)</li> <li>Negative Next Question: next question for surveys at negative threshold</li> <li>Neutral Next Question: next question for surveys between thresholds</li> <li>Positive Next Question: next question for surveys at positive threshold</li> </ol>	

## **Threshold Branch Example**

In this example, the survey is designed so that, if the technician's technical skills were not satisfactory, the caller is asked to leave verbal feedback and the survey ends immediately thereafter (see first screenshot). If the technician's technical skills were satisfactory, the caller is presented with another question prior to the survey's conclusion (see second screenshot).

Technical Skills		Score: 0 of 5 (0%)			
Were you comfortable with your technician's knowledge of the application?	Press 1 for ye	es. Press 2 for no.			
Digits Collected: 2					
Yes No	.□ . <b>-2</b> Opts	Negative answer; caller asked to leave verbal			
Allow verbal feedback if dissatisfied with technical knowledge.		comments. Final			
Digits Collected: 2		question is not presented.			
	. 🗆	presented.			
We're sorry that your experience with our technical support was less than satisfactory. At the tone, please record a detailed voice message regarding how we could have done better. Press the pound or number sign to stop recording.					
1-110934.wav	. 🗆				
Was your issue resolved within a satisfactory period of time? Press 1 for yes. Press 2 for no.					
Yes	. 🗆 📈				
No	. 🗆				

Technical Skills	5	Score: 1	10 of 10 (100%)			
Were you comfortable with your technician's knowledge of the application?	Press 1	for yes.	Press 2 for no.			
Digits Collected: 1						
Yes	. <del>W</del>	5pts	Positive Answer			
No	. 🗆		leads to			
Allow verbal feedback if dissatisfied with technical knowledge.			presentation of additional			
Digits Collected: 1			question			
	. 🗆					
We're sorry that your experience with our technical support was less than satisfactory. At the tone, please record a detailed voice message regarding how we could have done better. Press the pound or number sign to stop recording.						
	. 🗆					
Was your issue resolved within a satisfactory period of time? Press 1 for yes. Press 2 for no.						
Digits Collected: 1		1				
Yes	. <del>T</del>	5pts				
No	. 🗆					
Conclusion		Sco	ore: 0 of 0 (N/A)			
Thank you for participating in our Post-Support Survey. We appreciate your feedback.						
	. 🗆					

# **Search Attempted Surveys (Form Search)**



Click the **Surveys** tab in the Discover Web Portal. This tab will only be available if you have been assigned at least one of the survey-related permissions. For more information about permissions, see the "Permissions Definitions" section in the *Discover by Uptivity Administration Manual*.

If you have permission to view surveys, Form Search will be available. Clicking this selection will allow you to search for surveys which have been offered and wholly or partially completed. You can refine your search based on one or more of the following:

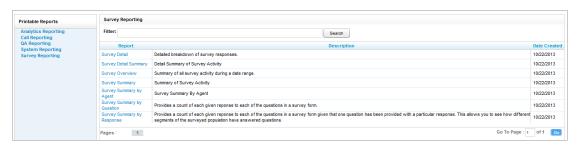
- Survey: This is the name of the survey.
- Start Date: Click on the calendar icon to set the start date for your search period.
- End Date: Click on the calendar icon to set the end date for your search period.
- **Record ID**: Each attempted survey is assigned a unique identification number by the system. If you know this number, you can search for a specific survey by entering that ID number here.
- DNIS: In the DNIS field, enter the number(s) attached to the survey.
- ANI: To limit your search to surveys delivered to a specific caller, enter the ANI (CallerID) information here. Availability of ANI information is dependent on your telephony system. If the caller is manually transferred to the survey by an agent, the ANI may not reflect the original CallerID.
- IP Address: This field is reserved for future functionality.
- Agent Name: To limit your search to surveys associated with a specific agent, enter the agent's name here.

# **Reports**

Surveys reports can be accessed, and ad hoc reports created, through the Discover Web Portal. You must have appropriate permissions for reporting. For more information on permissions, see the "Permissions Definitions" section in the Discover by Uptivity Administration Manual. For more information on ad hoc reports, see the Discover by Uptivity Reporting Manual.

To access reports for Surveys:

 Click the Reporting tab, expand Printable Reports in the left navigation menu, and then click 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**

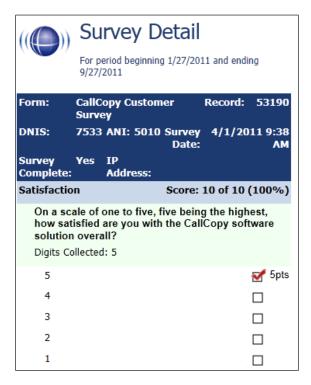
You can use these criteria to specify the data included in a report. The criteria available vary by report.

- Start Date: Click on the calendar icon to set the start date for your search period.
- End Date: Click on the calendar icon to set the end date for your search period.
- Agent: One or all agents can be selected from the drop-down list.
- **Record ID**: Each attempted survey is assigned a unique identification number by the system. If you know this number, you can search for a specific survey by entering that ID number here.
- Surveys/Forms/Form ID: One, multiple, or all survey forms can be selected from the list provided.
- Survey Complete: Surveys are either Complete or Incomplete based on whether the respondent reached a question that had the Mark Survey Complete option selected. You can limit your search to Complete, Incomplete, or Any using the drop-down list.
- ANI: To limit your report to surveys delivered to a specific caller, enter the ANI (CallerID) information here.
  - **Note** If the respondent was manually redirected to the survey by an agent, the ANI may not accurately reflect the respondent's number, depending on your telephony equipment.
- DNIS: Surveys can be configured so that customers receive different surveys based on the number they call
  to reach you (DNIS). To limit your report to surveys delivered via a specific DNIS, enter that information
  here.
- Question ID: To limit your report to a specific question, select from the list provided. This list is populated only after you have selected a survey for the report.

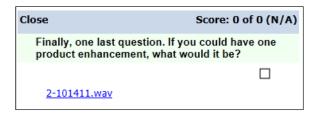
# **Survey Detail**

This report shows complete responses for one or more survey respondent(s) and also provides information about the respondent, such as DNIS and ANI.

Note IP Address is not used at this time.

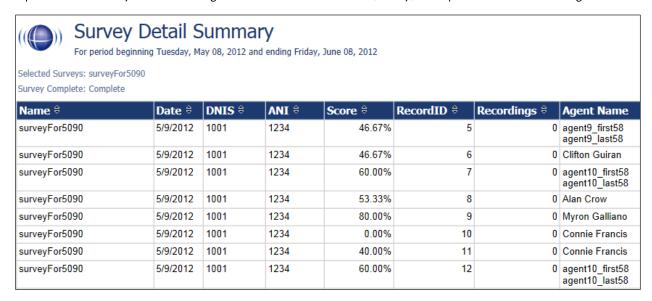


If respondents left a voice message for a question, a link to the message file appears in the report.



# **Survey Detail Summary**

This report lists all survey responses that match the search criteria. Click a survey to open the Survey Detail report for that survey. The Recordings column shows the number, if any, of respondent voice recordings.



# **Survey Overview**

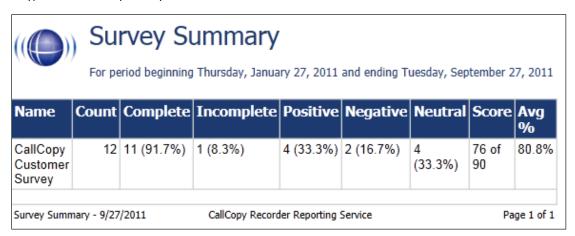
For each survey form in a time period, the report calculates the shown categories. Positive, Negative, and Neutral ranges are defined on the Survey Form specific information. If a survey form does not have any responses, it does not appear on the report.

	Su	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 Overv	riew - 9/27	/2011 (	CallCopy Recorder R Service	eporting		Page 1 of 1	

# **Survey Summary**

This report calculates the shown categories for all surveys in a time period, and displays them on a per-survey basis. 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 by Agent**

This report allows you to select a set of agents over a specific date range, and displays the number of surveys completed for each agent, given survey score, total possible points, percentage overall score, and totals for each column.

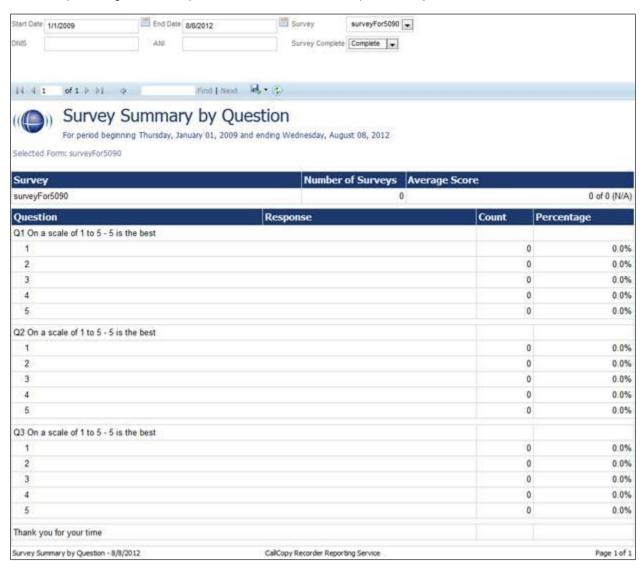
The Report Type option determines how results are broken down and displayed:

- Agent: Lists total scores for all forms by agent as shown below.
- Form: For each agent, shows scores by form and the total scores for all forms.
- Section: Shows scores for each section on the form.
- Question: Shows scores for each question in each section on each form.



# **Survey Summary by Question**

This report provides a count of each given response to each of the questions in a survey form. You can select a date range, the survey form to evaluate, DNIS/ANI numbers, and survey completion status. For each form evaluated, the generated report displays the number of surveys completed and average score, followed by counts and score percentages for each question in the form. The Survey field is required.



# **Survey Summary by Response**

This report helps you identify the relationship between a response to one question and the responses to other questions. This allows you to see how different segments of the surveyed population have answered questions. This report works well with surveys where one question addresses a respondent's overall opinion of a product or service, and follow-up questions elicit the reasons or factors for that overall opinion.

Example: Car Satisfaction Survey – Customers who purchased any new car within the last year are surveyed. One question asks them to rate their overall satisfaction with their car on a scale of 1 to 5, with 5 being the highest satisfaction. Additional questions ask how many times they have taken the car for repairs, the price of the car, the size of the car, the car's miles-per-gallon rate, and whether the car was the customer's first choice. Assume that these are the results:

#### Report 1: Question 1: Satisfaction rating: 1

- Question 2 -- Number of times cars repaired: 1
- Question 3 Was this car your first choice?: No

#### Report 1: Question 1: Satisfaction rating: 5

- Question 2 -- Number of times cars repaired: 1
- Question 3 Was this car your first choice?: Yes

Given these results, it appears that satisfaction with a car purchase is determined by whether or not the customer was able to purchase their first choice. A customer may have wanted a \$35,000 car but had to settle for a \$20,000 car, which affected the satisfaction rating.

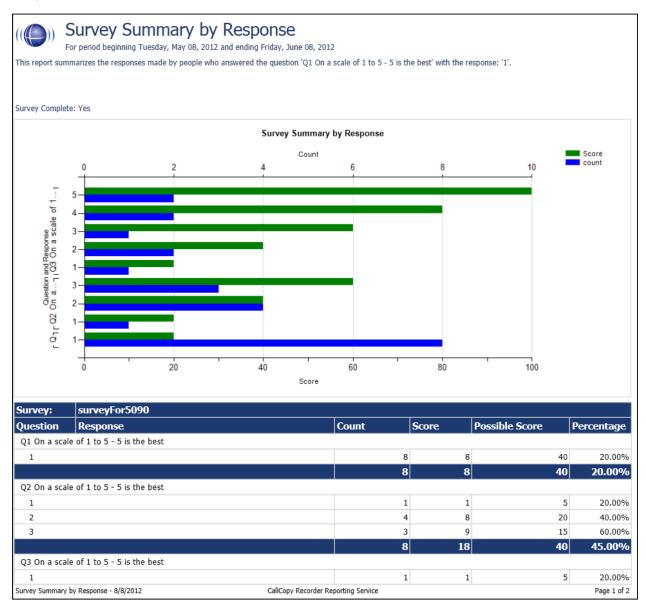
Multiple versions of this report may need to be created in order to identify the relationships between a question's responses and the responses on the other questions. In other words, if Question 1 has four possible responses, and that question is used as the overall or control question, then a report should be run for each response.

Survey, Question ID, and Response are required fields. The result fields are:

- Count: Number of respondents who selected a response.
- Score: Actual total points for a response. If a response was worth two points and three respondents selected it, the Score would be six.
- Possible Score: Number of response options multiplied by the point value for a response.
- Percentage: Score / Possible Score

#### Reports

If no respondents selected a response to a question, the response option does not appear on the report. For example, if no respondents selected response 2 to a question, the report shows numbers for responses 1, 3, 4, and 5.



# **PBX Configuration Examples**

This section outlines PBX configuration examples for T1s and trunk groups. This is **not** an inclusive list and Uptivity 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 1) 10/27/2008 5:29:20 PM

DS1 CIRCUIT PACK

Location:
Bit Rate: 1.544
Line Coding: b8zs
Line Compensation:
Signaling Mode: isdn-pri
Connect: pbx
TN-C7 Long Timers? n
Interworking Message: PROGress
Interface Companding: mulaw
Tdle Code: Till11111
DCP/Analog Bearer Capability: 3.1kHz

Slip Detection: Y
Echo Cancellation: Y
EC Direction: inward
EC Configuration: 4

DS1 CIRCUIT PACK

Name: * Survey Trunk b8zs
Ess 
Country Frotocol: b8zs
Ess 
Country Protocol: 1
PROGress
Protocol Version: b
CRC? n
T303 Timer(sec): 4

Block Progress Indicator? n
EC Configuration: 4

Block Progress Indicator? n
```

```
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
         Send Name: y Send Calling Number 2 Send EMU Visitor CPN? n
          # Outpulsing? n Format: public preferred 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? y
                                          Modify Tandem Calling Number? n
             Send UCID? y
Send Codeset 6/7 LAI IE? y
                                                 Ds1 Echo Cancellation? n
                                       US NI Delayed Calling Name Update? 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

Trunk Hunt: cyclical

Incoming Calling Number - Delete: Insert: Format:

Bit Rate: 1200 Synchronization: async Duplex: full

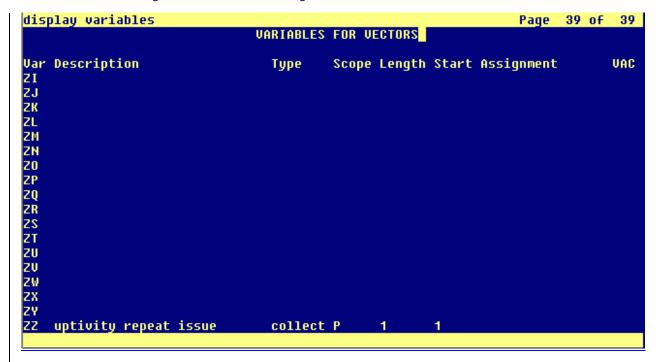
Disconnect Supervision Timeout: 0 Out? n
```

## **Vector Programming/Automatic Transfer**

Vectors are needed to direct calls to agents and to the survey engine. Vector programming depends on if the agent transfers the caller to the survey by dialing a number or if the caller is automatically transferred when the agent disconnects the call. This example is one possible way to program vectors for automatic transfers.

If callers are automatically transferred to the survey engine when the agent disconnects, a looping scenario can occur. When the survey ends, the call is redirected to the ACD, which then redirects it back to the survey engine, causing a new survey to begin. A variable can be used to count the transfers and cause a disconnect after the survey ends.

The screen shown here gives the values for creating the variable.



The vector shown below is used to transfer the incoming call to the agent. Note that Variables must be enabled. The variable created earlier is set to 1. The VDN Return Destination is set to the vector or number that forwards the caller to the survey engine (not shown in this screen capture).

```
display vector 984
                                                                   Page
                                                                          1 of
                                   CALL VECTOR
    Number: 984
                              Name: Test CC Oueue
Multimedia? n
                    Attendant Vectoring? n
                                               Meet-me Conf? n
                                                                          Lock? n
     Basic? y
                EAS? y
                          G3V4 Enhanced? y
                                              ANI/II-Digits? y
                                                                  ASAI Routing? y
 Prompting? y
                LAI? y
                        G3V4 Adv Route? y
                                              CINFO? y
                                                         BSR? y
                                                                   Holidays? y
 Variables? y
                3.0 Enhanced? y
        Test Call Copy and Survey
01 #
02 set
                                 ADD
                ZZ
                        = none
03 queue-to
                skill 12
                            pri 1
04 wait-time
                60 secs hearing music
05 announcement 01221
06 wait-time
                90 secs hearing music
                               if unconditionally
07 goto step
08 stop
89
10
11
12
```

The vector shown below routes the caller to the survey engine and increments the variable. If the variable is greater than 1 (i.e., the user has been directed to the survey before), the caller is disconnected.

```
display vector 99
                                                                  Page
                                                                          1 of
                                                                                 6
                                   CALL VECTOR
    Number: 99
                              Name: Survey Return
Multimedia? n
                    Attendant Vectoring? n
                                              Meet-me Conf? n
                                                                          Lock? n
     Basic? y
                EAS? y
                          G3V4 Enhanced? y
                                              ANI/II-Digits? y
                                                                 ASAI Routing? u
                LAI? y
                        G3V4 Adv Route? y
                                             CINFO? y
 Prompting? y
                                                         BSR? y
                                                                  Holidays? y
                3.0 Enhanced? y
 Variables? y
        Return Destination For Appointment Center Survey
                    secs hearing silence
02 wait-time
                1
  qoto step
                ó
                                 ZZ
04 set
                ZZ
                        = ZZ
                                 ADD
                                          with cov n if unconditionally
05 route-to
                number 09650
06 disconnect
                after announcement none
07 stop
98
09
10
11
12
```

## eOn eQueue

The following screenshots layout trunk configurations on an eOn eQueue.

## **T1 Line Assignment**

```
Add Change Delete
                                             Print Quit
Number [E1750101]
                    Port [01.15.01 ]
                                          Name [PRI TEST 1.15.1 ]
 Line Info 1 [
 Type [TRUNK]
                                                    CallZone [
               cos [1
                                Group [1
 Port Class [4
                     T1 Class [5
                                    ] Password [
                                                         ] VAN Grp
                     Aux Lamp [O
                                    ] Lamp Type [O ]
                                                           Msg Lamp [O
      Lamp [O
 Port Comm. [
                               [D801
 Hotline/Direct In Number
 Ring no Answer default
                                FORWARDS
                              Active [N ]
                                                         Internal ? [N ]
                                           Delay [
              RNA [
                              Active [N ]
         All Calls [
                                           Active [N
                          Internal [N ]
 Forward Setup Allowed
                                         External [N
                                                           F1 = HELP
Find an assignment
```

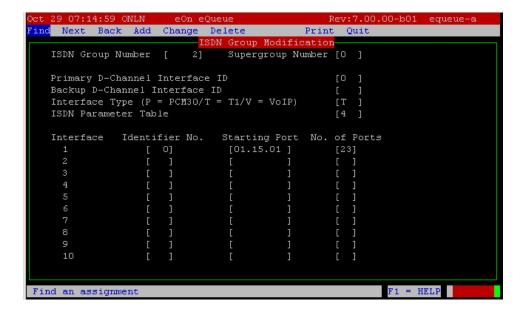
### T<sub>1</sub> Class

```
Print Quit
 nd Next Back Add Change Delete
     T1 Index
                                      [ISDN W/D NETWORK ]
     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)
                                      [0]
     Network or User (N/U)
                                      [N]
     Line Build Out
Find an assignment
                                                            F1 = HELP
```

#### **Port Class**

```
29 08:12:39 ONLN
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
  Rx Ring
                            Tx Ring [N ]
                                            Can't be Released
                      [N]
                            Rx Ack [N ]
Rx Ans [N ]
  Tx Ack
                      [N]
  Tx Ans
                      [Y]
                            Tx Blck [N ]
  No Answer on CONNECT [N ]
  Electr. Set [N ]
                       Can Sup Inbound
                                                   Nailed
                                                                [N]
  Aux Line [N ]
                       Can Sup Outbound [Y]
Find an assignment
```

## **ISDN** Group



#### **ISDN** Parameter

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

### Hotline

```
Find Next Back Add Change Delete
                                                         Print
                                                                  Quit
               17] Pilot [D801
                                       ] Name [survey pri
 Number [
                                                                        Copy From [
  Comment [
                                                                           ] Zone [0 ]
  Step
                   Command
                                                Step
                                                                     Command
  [1 ][ISDN ALERT
[3 ][NULL
                                                [2 ][NULL
[4 ][NULL
[6 ][NULL
  [5 ][ROUTE DNIS, 80, 0
 [7 ][NULL
[9 ][TERMINATE
[11][
                                                [8 ][NULL
[10][
[12][
                                                [14][
[16][
  [15][
  [17][
                                                [18][
                                                 [22][
  [21][
  [23][
                                                [24][
  [25][
                                                [26] [
[28] [
  [27] [
[29] [
                                                [30][
  [31][
 Enter inbound route entry name.
                                                                           F1 = HELP CHANGE
```

## **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
```

Uptivity Surveys TDM Administration Guide, v5.4

# **About Uptivity**

What boosts the bottom line for any company with a contact center? How about getting the best that every agent can deliver from their first day on the job and constantly optimizing contact center management and performance? Only Uptivity gives you the tools you need to continuously improve every aspect of each step of every agent's life cycle and enhance customer satisfaction. You get exactly what you need thanks to a modern, integrated, and easy-to-use suite of tools that offers a unified system for performance management, workforce management, speech analytics, and call recording. Unparalleled customer service and support from our in-house staff combine with a better bundle for a better value, and a lower total cost of ownership.

Headquartered in Columbus, Ohio, and on the Web at www.uptivity.com.