

## Avaya Solution & Interoperability Test Lab

# **Application Notes for Pridis Calacsy with Avaya Communication Manager – Issue 1.0**

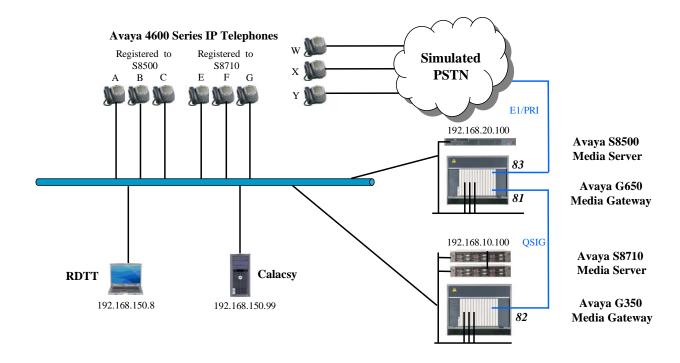
#### **Abstract**

These Application Notes describe the compliance testing done with Avaya Communication Manager and Pridis Calacsy. Calacsy collects Call Detail Records (CDRs) from Avaya Communication Manager and creates telephone usage reports.

Information in these Application Notes has been obtained through compliance testing and additional technical discussions. Testing was conducted via the Developer *Connection* Program at the Avaya Solution and Interoperability Test Lab.

#### 1. Introduction

Pridis Calacsy is a PC-based application, which collects and evaluates Call Detail Records (CDRs) from Avaya Communication Manager running on Avaya Media Servers via an IP network. Pridis Calacsy can simultaneously collect records from multiple Avaya Communication Manager running on Avaya Media Servers. Pridis Calacsy can generate reports containing statistics on the usage resources, such as trunks and individual stations.



**Figure 1: Pridis Calacsy Test Configuration** 

**Figure 1** shows the test configuration used for compliance testing. The following is a brief description of the components:

- The Pridis Calacsy system in the above diagram collects CDRs from the Avaya S8500 and Avaya S8710 Media Servers.
- The Avaya Reliable Data Transport Tool (RDTT) running on the laptop also collects CDRs from the Avaya S8500 and Avaya S8710 Media Servers and serves as means of verifying the correct transmission of CDRs.
- The Avaya S8500 and S8710 Media Servers are connected via an E1 QSIG trunk.
- The Avaya S8500 Media Server is connected to the simulated PSTN via an E1 primary rate trunk.
- The two-digit numbers shown on trunk connections are the Trunk Access Code (TAC) values for those trunks, which appear in CDR records for traffic over those trunks.
- Avaya 4600 series IP telephones A-C are registered to the Avaya S8500 Media Server.

- Avaya 4600 series IP telephones E-G are registered to the Avaya S8710 Media Server.
- Telephones W-Y simulate external telephones connected to the PSTN.

## 2. Equipment and Software Validated

## 2.1. Avaya \$8710/G650

Component	Version
	Avaya
Avaya S8710 Media Server / Avaya G650	Communication
Media Gateway	Manager R3.1
	R013x.01.0.628.6
Avaya TN2312BP IPSI interface	HW11/FW030
Avaya TN799DP C-LAN interface	HW01/FW017
Avaya TN2302AP IP Media Processor	HW20/FW110
	Avaya
Avaya S8500 Media Server / Avaya G650	Communication
Media Gateway	Manager R3.1
	R013x.01.0.628.6
Avaya TN2312BP IPSI interface	HW11/FW030
Avaya TN799DP C-LAN interface	HW01/FW017
Avaya TN2302AP IP Media Processor	HW20/FW110
Avaya 4620 IP Telephones	2.3
Avaya Reliable Data Transport Tool	2.1
Pridis Calacsy	5.1
Pridis Calacsy OS: Microsoft Windows XP	2003, SP2

## 3. Configuration and Administration

Configuration was done using the System Access Terminal (SAT).

## 3.1. Configuration of Avaya Communication Manager on Avaya S8500 Media Server

## 3.1.1. Configuration of Avaya Communication Manager on Avaya S8500 Media Server

#### 3.1.2. IP Names/Addresses

Use the "change node-names ip" command to add the address of "calacsy" and the "laptop" on which runs the RDDT program to the list of IP name and address.

The IP address of the "clan" interface is required to configure Pridis Calacsy, as shown in the "LAN setup" window of the "Calacsy Pro Config" configuration program described in section 3.2 of this document. The "calacsy" parameter is the IP address of the Calacsy server. The "laptop" parameter is the IP address of the laptop PC that is used to run the Avaya RDDT program.

change node-na	mes ip		Page 1 of 1
	IP I	NODE NAMES	
Name	IP Address	Name	IP Address
clan	192.168.20 .6		
default	0 .0 .0 .0		
gateway	192.168.20 .254		
ipsi	192.168.20 .5		
medpro	192.168.20 .7		
procr	192.168.20 .100		
calacsy	192.168.150.99		
laptop	192.168.150.8		

#### 3.1.2.1 CDR IP Services

Use the "change ip-services" command to define CDR services for both Pridis Calacsy and the Avaya RDDT test program.

Define a service type of "CDR1" for Calacsy, which corresponds to the "Primary Output Endpoint" defined in the "system-parameters cdr" screen described in section 3.1.1.3 of this document. Specify a "Local Node" name of "clan" so that CDR reports will be sent to via the CLAN interface. Specify a "Remote Node" of "calacsy" which corresponds to the name, which was assigned to Calacsy's IP address in section 3.1.1.1 of this document. Specify a "Remote Port" value of "9001", which corresponds to the "Port" value in the "Lan setup" screen described in section 3.2 of this document.

Define a service type of "CDR2" for Calacsy, which corresponds to the "Secondary Output Endpoint" defined in the "system-parameters cdr" screen described in section 3.1.1.3 of this document. Specify a "Local Node" name of "clan" so that CDR reports will be sent to Pridis Calacsy via the CLAN interface. Specify a "Remote Node" of "laptop" which corresponds to the name, which was assigned to IP address of the PC, which runs the RDDT program in section 3.1.1.1 of this document. Specify a "Remote Port" value of "9001", which corresponds to the "Port" value which is read by the RDDT tool.

change ip-	services				Page	1 of	3	
Service Type CDR1 CDR2	Enabled	Local Node clan clan	IP SERVICES Local Port 0	Remote Node calacsy laptop	Remote Port 9001 9001			

Configure the interface to Calacsy to not use the "Reliable Protocol" feature. Configure the interface to the RDDT program to use the "Reliable Protocol" feature.

change ip-se	rvices				Page 3 of	4
Service Type	Reliable Protocol		LAYER TIMERS Session Connect Message Cntr	SPDU Cntr	Connectivity Timer	
CDR1 CDR2	n Y	30 30	3 3	3 3	60 60	

#### 3.1.2.2 CDR System Parameters

Use the "change system-parameters cdr" command to configure format and destinations for primary and secondary CDR output. Configure the output for both Calacsy (**cdr1**) and RDDT (**cdr2**) to use the "customized" format defined by page 2 of this command. Set the "Primary Output Endpoint" to go to Calacsy (cdr1). Configure the secondary CDR output to go to the RDDT program (cdr1).

```
change system-parameters cdr
                                                                             Page 1 of
                                 CDR SYSTEM PARAMETERS
Node Number (Local PBX ID): 2
                                                            CDR Date Format: day/month
      Primary Output Format: customized Primary Output Endpoint: cdr1
    Secondary Output Format: customized Secondary Output Endpoint: cdr2
           Use ISDN Layouts? n
       Use Enhanced Formats? n Condition Code 'T' For Redirected Calls? n
Modified Circuit ID Display? n
                                                     Remove # From Called Number? n
 Record Outgoing Calls Only? n

Suppress CDR for Ineffective Call Attempts? n

Disconnect Information in Place of FRL? n

Outg Trk Call Splitting? y

Outg Attd Call Record? y

Interworking Feat-flag? n
Force Entry of Acct Code for Calls Marked on Toll Analysis Form? n
                                         Calls to Hunt Group - Record: member-ext
Record Called Vector Directory Number Instead of Group or Member? n
  Inc Trk Call Splitting? y

Record Non-Call-Assoc TSC? n

Call Record Handling Option: warning
   Record Call-Assoc TSC? n Digits to Record for Outgoing Calls: dialed Privacy - Digits to Hide: 0 CDR Account Code Length: 15
```

Configure the "customized" format of the CDR records, which are to be written to both Pridis Calacsy and the Avaya RDDT program. This is the fixed format, which is required by Pridis Calacsy.

```
2 of 2
change system-parameters cdr
                                                  Page
                     CDR SYSTEM PARAMETERS
    Data Item - Length
                        Data Item - Length
                                             Data Item - Length
 1: date - 6 17: - - 2: time - 4 10:
                                         33:
34:
                                         35:
36:
                                         38:
                                          39:
                                         40:
                                         41:
                                          42:
                                          43:
                                          44:
                                          45:
                   30:
14:
                                          46:
15:
                                          47:
16:
                         Record length = 72
```

#### 3.1.2.3 Intra-Switch CDR Members

Use the "change intra-switch-cdr" command to specify the list of locally attached stations for which CDR records are to be generated. These are stations E, F, and G with extension 700102, 700112 and 700121 respectively.

change intra	-switch	ı-cdr			Page 1 of	2
		INTRA-S	SWITCH CDR			
Assigned Mem	bers:	3 of 1000	administered			
1: 700102	19:	37:	55:	73:	91:	
2: 700112	20:	38:	56:	74:	92:	
3: <b>700121</b>	21:	39:	57:	75:	93:	
4:	22:	40:	58:	76:	94:	
5:	23:	41:	59:	77:	95:	
6:	24:	42:	60:	78:	96:	
7:	25:	43:	61:	79:	97:	
8:	26:	44:	62:	80:	98:	
9:	27:	45:	63:	81:	99:	
10:	28:	46:	64:	82:	100:	
11:	29:	47:	65:	83:	101:	
12:	30:	48:	66:	84:	102:	
13:	31:	49:	67:	85:	103:	
14:	32:	50:	68:	86:	104:	
15:	33:	51:	69:	87:	105:	
16:	34:	52:	70:	88:	106:	
17:	35:	53:	71:	89:	107:	
18:	36:	54:	72:	90:	108:	

#### 3.1.2.4 Configure E1 interface to PSTN

Use the "add trunk-group" command to configure the E1/PRI interface, which is used to simulate the receipt of external calls. Specify a "CDR Reports" value of "r" so that CDR records include the ring time to answer or abandon for incoming calls that the trunk group originates. Use a unique "TAC" code for this trunk. This value is reported in CDR records generated for traffic on this trunk.

```
add trunk-group 2
                                                                                      1 of 20
                                                                              Page
                                       TRUNK GROUP
Group Number: 2 Group Type: isdn CDR Reports: r
Group Name: S8300 COR: 1 TN: 1 TAC:83
Direction: two-way Outgoing Display? y Carrier Medium: PRI/BRI
Dial Access? y Busy Threshold: 255 Night Service:
Queue Length: 0
Service Type: tie
                                           Auth Code? n
                                                                        TestCall ITC: rest
                             Far End Test Line No:
TestCall BCC: 4
TRUNK PARAMETERS
          Codeset to Send Display: 6 Codeset to Send National IEs: 6
         Max Message Size to Send: 260 Charge Advice: none
  Supplementary Service Protocol: a Digit Handling (in/out): overlap/overlap
        Digit Treatment:
                                                                            Digits:
                                                              QSIG Value-Added? n
              Trunk Hunt: cyclical
Incoming Calling Number - Delete: Insert: Format:

Bit Rate: 1200 Synchronization: async Duplex: full
                                                                            Duplex: full
 Disconnect Supervision - In? y Out? n
```

Enter "add signaling group j" command, where "j" is an available signaling group number. Set the "Trunk Group for Channel Selection" to the group created in the previous step.

```
Associated Signaling?: y
Primary D-channel: 001v216
Trunk Group for Channel Selection: Supplementary Service Protocol: a

Page 1 of 3

SIGNALLING GROUP

Group Type: isdn-pri
Max number of NCA TSC: 0
Max number of NCA TSC: 0
Trunk Group for NCA TSC: 0
Trunk Group for NCA TSC:
Network Call Transfer? n
```

Allocate sufficient channels to handle the anticipated traffic to be encountered by the trunk.

add trunk-group 2	Page 4 of 20
	TRUNK GROUP
	Administered Members (min/max): 1/30
GROUP MEMBER ASSIGNMENTS	Total Administered Members: 29
Port Code Sfx Name	Night Sig Grp
1: 01A0601 TN2464 C	2
2: 01A0602 TN2464 C	2
3: 01A0603 TN2464 C	2
4: 01A0604 TN2464 C	2
5: 01A0605 TN2464 C	2
6: 01A0606 TN2464 C	2
7: 01A0607 TN2464 C	2
8: 01A0608 TN2464 C	2
9: 01A0609 TN2464 C	2
10: 01A0610 TN2464 C	2
11: 01A0611 TN2464 C	2
12: 01A0612 TN2464 C	2
13: 01A0613 TN2464 C	2
14: 01A0614 TN2464 C	2
15: 01A0615 TN2464 C	2

#### 3.1.2.5 Configure E1 Interface to S8710

Use the "add trunk-group" command to configure the E1/PRI interface, which is used to connect to the S8710 via QSIG trunk. Specify a "CDR Reports" value of "r" so that CDR records include the ring time to answer or abandon for incoming calls that the trunk group originates. Use a unique "TAC" code for this trunk. This value is reported in CDR records generated for traffic on this trunk.

```
add trunk-group 1

TRUNK GROUP

Group Number: 1

Group Name: S8700

Direction: two-way
Dial Access? y

Queue Length: 0

Service Type: tie

Auth Code? n

TestCall BCC: 4

Page 1 of 21

CDR Reports: r

TN: 1

TAC: 81

Carrier Medium: PRI/BRI

Night Service:

Night Service:

TestCall BCC: 4
```

Enter "add signaling group j" command, where "j" is an available signaling group number. Set the "Trunk Group for Channel Selection" to the group created in the previous step.

```
add signalling-group 1

SIGNALLING GROUP

Group Number: 2

Associated Signaling?: y

Primary D-channel: 001v216

Trunk Group for Channel Selection: 1

Supplementary Service Protocol: a

SIGNALLING GROUP

Max number of NCA TSC: 0

Trunk Group for NCA TSC:

Xmobility/Wireless Type: NONE

Network Call Transfer? n
```

Allocate sufficient channels to handle the anticipated traffic to be encountered by the trunk.

```
5 of 21
add trunk-group 1
                                                                      Page
                                   TRUNK GROUP
                                      Administered Members (min/max):
                                                                              1/30
                                             Total Administered Members: 29
GROUP MEMBER ASSIGNMENTS
              Code Sfx Name
                                     Night
       Port
                                                        Sig Grp
  1: 01A0501 TN2464 C
  2: 01A0502 TN2464 C
                                                          1
  3: 01A0503 TN2464 C
                                                          1
  4: 01A0504 TN2464 C
5: 01A0505 TN2464 C
  6: 01A0506 TN2464 C
 7: 01A0507 TN2464 C
8: 01A0508 TN2464 C
                                                          1
 9: 01A0509 TN2464 C
                                                          1
10: 01A0510 TN2464 C
 11: 01A0511 TN2464 C
                                                           1
12: 01A0512 TN2464 C
                                                           1
13: 01A0513 TN2464 C
14: 01A0514 TN2464 C
15: 01A0515 TN2464 C
                                                           1
```

## 3.1.3. Configuration of Avaya Communication Manager on Avaya S8710 Media Server

### 3.1.3.1 IP Names/Addresses

Use the "change node-names ip" command to add the address of "calacsy" and the "laptop" on which the RDDT program is to be run to the list of IP name and address.

The IP address of the "clan" interface is required to configure Calacsy, as shown in the "LAN setup" window of the "Calacsy Pro Config" configuration program described in section 3.2 of this document.

change node-na	mes ip		Page 1 of 1	
	IP N	ODE NAMES		
Name	IP Address	Name	IP Address	
clan	192.168.10 .6			
default	0 .0 .0 .0			
gateway	192.168.10 .254			
ipsi	192.168.10 .5			
medpro	192.168.10 .7			
procr	192.168.10 .1			
server	192.168.10 .3			
ses	192.168.200.100			
calacsy	192.168.150.99			
laptop	192.168.150.8			

#### 3.1.3.2 CDR IP Services

Use the "change ip-services" command to define CDR services for both Pridis Calacsy and the Avaya RDDT test program.

Define a service type of "CDR1" for Calacsy, which corresponds to the "Primary Output Endpoint" defined in the "system-parameters cdr" screen described in section 3.1.2.3 of this document. Specify a "Local Node" name of "clan" so that CDR reports will be sent to Calacsy via the CLAN interface. Specify a "Remote Node" of "calacsy" which corresponds to the name which was assigned to Calacsy's IP address in section 3.1.2.1 of this document. Specify a "Remote Port" value of "9001", which corresponds to the "Port" value in the "Lan setup" screen described in section 3.2 of this document.

Define a service type of "CDR2" for Calacsy, which corresponds to the "Secondary Output Endpoint" defined in the "system-parameters cdr" screen described in section 3.1.2.3 of this document. Specify a "Local Node" name of "clan" so that CDR reports will be sent to via the Clan interface. Specify a "Remote Node" of "laptop" which corresponds to the name which was assigned to IP address of the PC which runs the RDDT program in section 3.1.2.1 of this document. Specify a "Remote Port" value of "9001", which corresponds to the "Port" value which is read by the RDDT tool.

change ip-s		Page	1 of	4					
Service Type	Enabled	Local Node	IP SERVICES Local Port	Remote Node	Remote Port				
AESVCS CDR1 CDR2	c]	lan lan lan	8765 <b>0</b> <b>0</b>	calacsy laptop	9001 9001				

Configure the interface to Pridis Calacsy to not use the "Reliable Protocol" feature. Configure the interface to the RDDT program to use the "Reliable Protocol" feature.

change ip-se	rvices			Page 3 of	4	
Service Type	Reliable Protocol		LAYER TIMERS Session Connect Message Cntr	SPDU Cntr	Connectivity Timer	
CDR1 CDR2	n y	30 30	3 3	3	60 60	

#### 3.1.3.3 CDR System Parameters

Use the "change system-parameters cdr" command to configure format and destinations for primary and secondary CDR output. Configure the output for both Calacsy (cdr1) and RDDT (cdr2) to use the "customized" format defined by page 2 of this command. Set the "Primary Output Endpoint" to go to Calacsy (cdr1). Configure the secondary CDR output to go to the RDDT program (cdr2).

```
change system-parameters cdr
                                                                      Page
                                                                              1 of
                                                                                      2
                              CDR SYSTEM PARAMETERS
Node Number (Local PBX ID): 1
                                                       CDR Date Format: day/month
      Primary Output Format: customized Primary Output Endpoint: cdr1
    Secondary Output Format: customized Secondary Output Endpoint: cdr2
          Use ISDN Layouts? n
       Use Enhanced Formats? n
                                     Condition Code 'T' For Redirected Calls? n
Modified Circuit ID Display? n
                                                 Remove # From Called Number? n
 Record Outgoing Calls Only? n

Suppress CDR for Ineffective Call Attempts? n

Disconnect Information in Place of FRL? n

Outg Trk Call Splitting? y

Outg Attd Call Record? y
                                                          Interworking Feat-flag? n
Force Entry of Acct Code for Calls Marked on Toll Analysis Form? n
                                      Calls to Hunt Group - Record: member-ext
Record Called Vector Directory Number Instead of Group or Member? n
     Inc Trk Call Splitting? y
                                                    Inc Attd Call Record? n
 Inc Trk Call Splitting? y Inc Attd Call Record? n
Record Non-Call-Assoc TSC? n Call Record Handling Option: warning
     Record Call-Assoc TSC? n Digits to Record for Outgoing Calls: dialed
   Privacy - Digits to Hide: 0
                                               CDR Account Code Length: 15
```

Configure the "customized" format of the CDR records, which are to be written to both Calacsy and the Avaya RDDT program. This is the fixed format, which is required by Calacsy.

```
change system-parameters cdr
                                                                                     2 of 2
                                                                             Page
                                 CDR SYSTEM PARAMETERS
 Data Item - Length

1: date - 6 17:
2: time - 4 18:
3: sec-dur
                                    Data Item - Length Data Item - Length - 33:
                                                               34:
                        - 5 19:
 3: sec-dur
4: cond-code
5: dialed-num
6: calling-num
7: in-trk-code
- 4 23:
- 4 24:
                                                               35:
                                                                36:
                                                               37:
                                                               38:
                                                               39:
40:
 7: in-cr. 8: code-used
                        - 4 25:
 9: duration
                                                               41:
10: in-crt-id
11: vdn
12: return
13:
                        - 3 26:
- 7 27:
                                                               42:
                                                                43:
                        - 1 28:
                                                               44:
                         - 29:
                                                               45:
                               30:
31:
                                                                46:
14:
15:
                                                               47:
16:
                                                               48:
                                  Record length = 72
```

#### 3.1.3.4 Intra-Switch CDR Members

Use the "change intra-switch-cdr" command to specify the list of locally attached stations for which CDR records are to be generated. These are stations A, B, and C with extensions 600103, 300132 and 600151.

Change intra	-switc	h-cdr				Page 1 of 2	
INTRA-SWITCH CDR							
Assigned Mem		3	of 1000	administered			
1: 600103	19:		37:	55:	73:	91:	
2: 600132	20:		38:	56:	74:	92:	
3: <b>600151</b>	21:		39:	57:	75:	93:	
4:	22:		40:	58:	76:	94:	
5:	23:		41:	59:	77:	95:	
6:	24:		42:	60:	78:	96:	
7:	25:		43:	61:	79:	97:	
8:	26:		44:	62:	80:	98:	
9:	27:		45:	63:	81:	99:	
10:	28:		46:	64:	82:	100:	
11:	29:		47:	65:	83:	101:	
12:	30:		48:	66:	84:	102:	
13:	31:		49:	67:	85:	103:	
14:	32:		50:	68:	86:	104:	
15:	33:		51:	69:	87:	105:	
16:	34:		52:	70:	88:	106:	
17:	35:		53:	71:	89:	107:	
18:	36:		54:	72:	90:	108:	

#### 3.1.3.5 Configure E1 interface to S8500

Use the "add trunk-group" command to configure the E1/PRI interface, which is to provide a QSIG trunk to the S8500. Specify a "CDR Reports" value of "r" so that CDR records include the ring time to answer or abandon for incoming calls that the trunk group originates. Use a unique "TAC" code for this trunk. This value is reported in CDR records generated for traffic on this trunk.

```
add trunk-group 1

TRUNK GROUP

Group Number: 1 Group Type: isdn CDR Reports: r
Group Name: S8500 COR: 1 TN: 1 TAC: 82
Direction: two-way Outgoing Display? y Carrier Medium: PRI/BRI
Dial Access? y Busy Threshold: 255 Night Service:
Queue Length: 0
Service Type: tie Auth Code? n TestCall ITC: rest

Far End Test Line No:

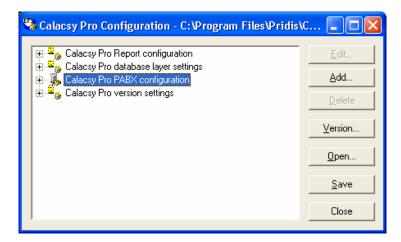
TestCall BCC: 4
swer Supervision Timeout: 0
```

Allocate sufficient channels to handle the anticipated traffic to be encountered by the trunk.

```
add trunk-group 1
                                                                           Page
                                                                                   5 of 21
                                      TRUNK GROUP
                                            Administered Members (min/max):
                                                                                   1/30
GROUP MEMBER ASSIGNMENTS
                                                 Total Administered Members: 29
                Code Sfx Name
                                         Night
                                                             Sig Grp
       Port
 1: 01A0601 TN2464 C port-01
2: 01A0602 TN2464 C port-02
                                                               1
                                                               1
  3: 01A0603 TN2464 C port-03
                                                               1
  4: 01A0604 TN2464 C port-04
  5: 01A0605 TN2464 C port-05
6: 01A0606 TN2464 C port-06
  7: 01A0607 TN2464 C port-07
  8: 01A0608 TN2464 C port-08
9: 01A0609 TN2464 C port-09
10: 01A0610 TN2464 C port-10
11: 01A0611 TN2464 C port-11
                                                               1
12: 01A0612 TN2464 C port-12
13: 01A0613 TN2464 C port-13
                                                               1
                                                               1
14: 01A0614 TN2464 C port-14
                                                               1
15: 01A0615 TN2464 C port-15
                                                               1
```

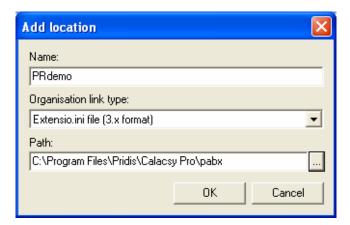
### 3.2. Configure Calacsy

Install the Calacsy software from the distribution media and accept all default parameters. Start Calacsy Pro Config by selecting **Start->Programs->Calacsy-> Calacsy Pro PABX**.

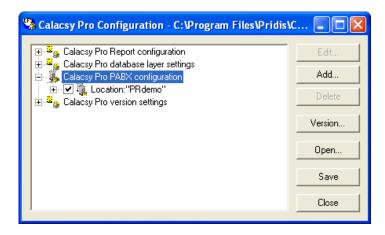


Click the "Add" button to add a new location.

- Enter a location name of "PRdemo" to be used for testing.
- Select "Extansio.ini file (3.x format) from the "Organization link type" drop-down list.
- Specify a "Path" of the default "pabx" directory, which was created by the installation program.
- Click "OK".



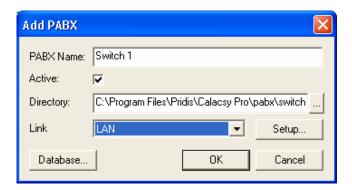
The "Calacsy Pro PABX configuration" entry can now be "expanded" to show the new location.



Select the new location and click "Add" to add a PABX to the location.

A directory is required for each switch to be included in the configuration. These can be created by manually making a copy of the "switch 1" directory which is contained within the "pabx" location directory which was created by default by the installation program. After the directory has been created, if required, perform the following steps:

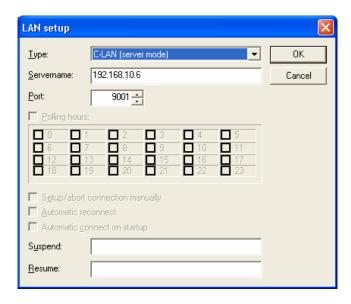
- Enter "Switch 1" for PABX name to add the S8710.
- Check the "Active" check box.
- Select the "switch 1" directory from the "Directory" field
- Select "LAN" from the "Link" drop-down box.



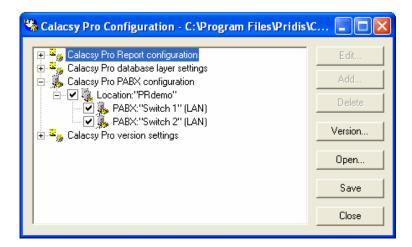
Setup the LAN connection by clicking "Setup".

Perform the following steps to setup the LAN:

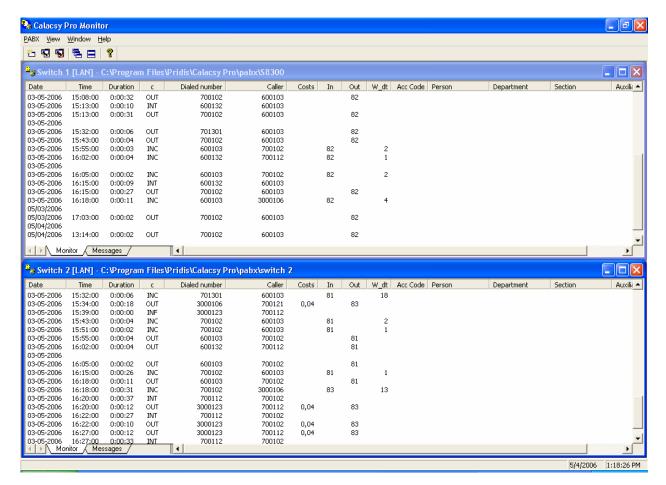
- Select "C-LAN (server mode)" from the "Type" drop-down box.
- Enter the IP address of the Media Server's CLAN interface for the "Servername" value. This is the same value which is specified for "calacsy" in the Communication Manager "nodenames ip" configuration screens shown in Sections 3.1.2.1.
- Enter the "Port" address specified for "Calacsy" in the Communication Manager "ipservices" screen show in Sections 3.1.2.1.
- Click "OK" when this is complete.



Repeat these steps to add "Switch 2" for the S8500. The "PRdemo" entry can now be "expanded" to show both of the newly added switches.



Once both switches have been configured, the Calacsy Pro Monitor can be started from the Windows Start/Programs/Calacsy Pro 5.1 menu. The PABX/New Window menu can then be used to start a monitor window for each of the switches. Each window contains an auto-scrolling report showing all calls.



## 3.3. Avaya RDTT

The Avaya RDTT application was pre-configured for this test.

## 4. Interoperability Compliance Testing

The objective of the compliance testing done on the Pridis Calacsy product was to verify interoperability with Avaya Communication Manager. This includes verifying that the essential Calacsy features function properly when used with Avaya Communication Manager, and that Avaya Communication Manager features are not hindered by the interaction with Calacsy. Furthermore, the robustness of Calacsy was verified.

#### 4.1. General Test Approach

The test method employed can be described as follows:

- The simulated PSTN interface was attached to Avaya Communication Manager and equipped with telephones used to simulate external callers.
- The Calacsy Pro Monitor was started and a report window opened for both the S8500 and S8710 switches.
- The Avaya RDDT monitor program was also started on the laptop.
- The major Calacsy features and functions were verified using local and external telephones, including making, receiving, and transferring local and external calls, and initiating conferences.
- The results reported by Calacsy were compared with the results reported by the Avaya RDDT program.
- The robustness of Calacsy was tested by verifying its ability to recover from interruptions to its external connections.

All testing was performed manually. The tests were all functional in nature, and no performance testing was done.

#### 4.2. Test Results

All test passed successfully, with one exception. Calacsy looses CDR records, which are generated when it is disconnected from the local area network. CDR record collection continues normally once Calacsy is reconnected to the network.

## 5. Verification Steps

There are various verification steps which can be performed to verify the correct operation of the system:

- Verify that Avaya Communication Manager and Calacsy can ping each other.
- Verify that the various telephones can call each other.
- Start the Avaya RDDT monitor and verify that it can receive CDR records from all of the Avaya Communication Servers, which have been configured to generate CDR records.
- Start the Calacsy Pro Monitor program and make a basic call from one local phone to another. Verify that the call is reported on the Calacsy Pro Monitor program.
- Start the Calacsy Pro Monitor program and make a basic call from one local phone to an external party. Verify that the call is reported on the Calacsy Pro Monitor program.

### 6. Support

Support for Calacsy is available at:

Pridis B.V.
Computer Telephony Products
Ambachtsstraat 13 D
3861 RH Nijkerk
The Netherlands

Phone: +31 (0)33 4697086 e-mail: <u>info@pridis.com</u> info: <u>www.pridis.com</u>

#### 7. Conclusion

The following conclusions can be drawn from the compliance testing done on the Pridis Calacsy application:

- The major Calacsy functions interoperate with Avaya Communication Manager.
- Avaya Communication Manager operation is not hindered by interactions with Calacsy.
- Calacsy functions as expected, except that it does not report CDR records, which are generated when it is disconnected from the local area network.

#### 8. Additional References

- 1. "IP-CALACSY V4.0 and CALACSY PLUS Technical Manual", Version 4.0/Plus UK, June 2005
- 2. "Feature Description and Implementation for Avaya Communication Manager", 555-245-205, Issue 3, June 2005

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