

# **SMDR** Compatibility Guide

**Technical Reference** 

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OAISYS*
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# OAISYS\* OVERVIEW

This document defines the known formats of SMDR for various telephone systems that are supported for connecting OAISYS with the purpose of capturing extension and account code information from the phone system. It is important to verify the customer can support a format that we support. This information can be used to automatically delete recordings, trigger after-call actions, permissions, and searches.

**NOTE:** SMDR Integrations require a serial connection or IP connection for the SMDR. Polling or batch output is not supported.

The document will use the following organization method to define the SMDR formats:

#### **Format Name**

Field Name	Field 1	Field 1 Field 2 Field 3		Field 4	Field X
Start/End	4-10	11-24	25-28	29-35	36-40
Req?	N	Υ	N	N	N

#### **Field Name**

The column for the field name defines the name of the field as noted in the OAISYS definition files. This may or may not match exactly with the PBX system's documentation.

#### Start/End

The Start/End row defines the precise character position within the SMDR record where the field is expected to begin and end.

Fields may exist that are not defined in this document. In this case, the field after such undefined fields must have a START value that matches precisely with the SMDR output in all cases to support compatibility.

#### Req?

The REQ? row defines whether a field is required or not for an SMDR record to be considered valid by OAISYS. "Y" = required and "N" = optional.

If a field is required (Req? field indicates Y) it means that field cannot be blank. The field must be populated.

In general it should be assumed that the order of fields presented in this document is required. In cases where the PBX supports alternate ordering of fields any non-documented ordering may not be supported.

#### SMDR RECORDS

SMDR records must be output within 2.0 seconds of the call termination to be associated with the call. In cases where a delay longer than 2.0 seconds exists, the record will be ignored.

#### TRUNK ID

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The Trunk ID field is what ties OAISYS together with an SMDR record. A Trunk ID is always required; it may be either an inbound or outbound Trunk ID. Trunk IDs can be referred to as In Trunk ID, Out Trunk ID, Trunk ID, Originating Device, or Term Device.

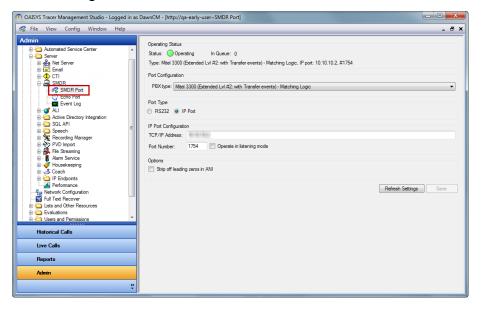
It may be possible to configure data fields in ways that are not documented or supported.

For example: Trunk IDs with alpha characters. Cases where data fields are known to be unique to a PBX and the format is supported are documented here. The absence of any such notes indicates the assumption of a pure numeric value. This applies directly to Trunk IDs and Extensions.

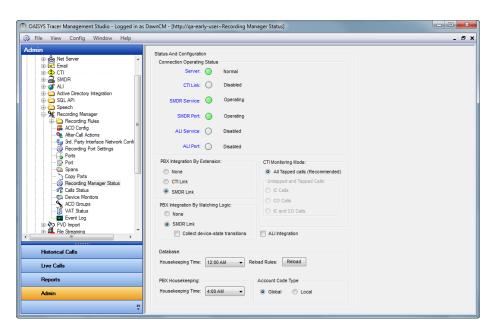


# CONFIGURATION

- 1. From OAISYS Management Studio Admin, navigate to SMDR → SMDR Port
  - a. Select the PBX type from the drop list
  - b. Save changes



- 2. Navigate to Recording Manager → Recording Manager Status
  - a. Verify SMDR Link is selected (PBX Integration by Extension is for non-SIP integrations and PBX Integration by Matching Logic is for SIP trunk integrations)





**NOTE:** The Collect device-state transitions checkbox is an advanced feature ensuring there is only one SMDR event per call (the last known extension on the call). Mitel 3300 and CTX systems typically support Device State Transitions (multiple SMDR per call).

- 3. Matching Logic Configuration (for SIP Trunks): Make a few test calls to ensure the extension is bound to the call recording. Once a call is complete, we see SMDR from the PBX and place it into an event queue. Approximately 5 minutes later, the system will run a database query to determine if any calls match the criteria based on the SMDR event to match to the call.
  - If a match is found, another query is run to add the information to the call.
  - If a match is not found initially, you will see:
     "[88204 07:34:49.7] [INFO]Fuzzy match failed for SMDR call data 2527 in FuzzyMatchCallQueue 2; reason = No matches found" in the TRM events
    - The system will run another attempt after 30 minutes; this is additional time allotted for the call to complete and be entered into the database.
  - The query is run three (3) times: 5 minutes, 30 minutes, and 4 hours.

In some cases, the default hard-coded values in the timer settings need to be changed. As the timing with every system is unique, some settings can be refined to improve match quality.

Below are some example settings we have found are a good match:

These parameters are to set windows for the duration and start time of the call and helps adjust for any latency or for system times that may not be quite in synch.

HKLM\Software\Computer Telephony Solutions\Recording Manager

DWORD: Voice4NetDurationWindow(20)seconds
DWORD: Voice4NetStartTimeWindow(120)seconds

In the example above, it allows for matches within plus or minus 20 seconds of the known duration and plus or minus 120 seconds of the



known start time. So if a call was recorded and the known duration of the recording is 5 minutes 25 seconds then potentially a match could occur with an SMDR event that noted duration between 5 minutes 5 seconds and 5 minutes 45 seconds.

The same is true for the start time window. If the known recording start time was 2:00pm, then potentially, a match could occur with an SMDR event that notes a start time between 1:58pm and 2:02pm.

These are the fuzzymatchqueue lookup timers (in seconds post call completion):

In this example, the first match attempt would be 75 seconds after call completion.

If no match, then a second attempt is run 15 seconds later.

If there still isn't a match, then a final attempt is run 69 seconds later. The initial queue (Queue0) should not be set to less than 60 seconds.

HKLM\Software\Computer Telephony Solutions\Recording Manager\FuzzyMatching

DWORD: Queue0DurationSeconds (75)

DWORD: Queue1DurationSeconds (15)

DWORD: Queue2DurationSeconds(69)

For additional information, see also:

http://www.oaisys.com/downloads/OAISYS\_SIP\_Integration.pdf



# PBX FORMATS

#### **ALLWORX**

Standard	Standard Format – (Position Based)												
Field	Call ID	Time	Duration	Originating Device	Ext	Dialed Digits	DNIS	Trunk	Name	Acct Code			
Position/ length	1/3	4/4	5/1	13/3	Below	15-1	19-1	Below	8/7	10/14			
Req?	Υ	Υ	Υ	Υ		N	N		N	N			

Position 13 – Extension field (3-4 digits) if Inbound Call

Position 9 – Extension field (3-4 digits) if Outbound Call, Also CallerID on Inbound

Position 6 – Trunk ID on Incoming Call

Position 10 – Trunk ID on Outgoing Call

**NOTE:** More information about SMDR setup is available here: <a href="http://www.aggsoft.com/pbx/allworx.htm">http://www.aggsoft.com/pbx/allworx.htm</a>

#### **AVAYA DEFINITY**

Printe	Printer Format - Inbound											
Field	Time	Duration	Outbound Trunk Group	Dialed number (ext. on inbound)	Calling number	Acct Code	In Trunk ID	Out Trunk ID				
Start/ End		6-9	17-19	21-36	37-41	43-58	74-76	78-80				
Req?	N	Υ	N	N	N	N	Υ	N				

This format supports multiple records per call. Either the In Trunk ID or Out Trunk ID fields must be populated for this format to be effective with OAISYS. The Dialed Number and Calling Number fields MUST come before the In Trunk ID and Out Trunk ID fields. Incoming and Outgoing call splitting should be enabled to receive a record on each transfer.

Printe	Printer Format - Outbound											
Field	Time	Duration	Outbound Trunk Group	Dialed number (ext. on inbound)	Calling number	Acct Code	In Trunk ID	Out Trunk ID				
Start/ End		6-9	17-19	21-36	37-41	43-58	74-76	78-80				
Req?	Ν	Υ	N	N	N	N	N	Υ				

This format supports multiple records per call. Either the In Trunk ID or Out Trunk ID fields must be populated for this format to be effective with OAISYS. The Dialed Number and Calling Number fields MUST come before the In Trunk ID and Out Trunk ID fields. Incoming and Outgoing call splitting should be enabled to receive a record on each transfer.

59 Character Format - Inbound **Field** Time Duration Outbound Dialed number Calling Acct In Trunk Out Trunk Trunk Group (ext. on inbound) number Code ID Start/ 5-8 13-15 31-35 16-30 36-50 53-55 56-58 **End** Υ Ν Υ Ν Ν Ν Ν Req? Ν

This format supports multiple records per call. Either the In Trunk ID or Out Trunk ID fields must be populated for this format to be effective with OAISYS. The Dialed Number and Calling Number fields MUST come before the In Trunk ID and Out Trunk ID fields. Incoming and Outgoing call splitting should be enabled to receive a record on each transfer.

59 Ch	59 Character Format - Outbound											
Field	Time	Duration	Outbound Trunk Group	Dialed number (ext. on inbound)	Calling number	Acct Code	In Trunk ID	Out Trunk ID				
Start/ End		5-8	13-15	16-30	31-35	36-50	53-55	56-58				
Req?	N	Υ	N	N	N	N	N	Υ				

This format supports multiple records per call. Either the In Trunk ID or Out Trunk ID fields must be populated for this format to be effective with OAISYS. The Dialed Number and Calling Number fields MUST come before the In Trunk ID and Out Trunk ID fields. Incoming and Outgoing call splitting should be enabled to receive a record on each transfer.

Raw I	Raw Format - Inbound											
Field	Time	Duration	Outbound Trunk Group	Dialed number (ext. on inbound)	Calling number	Acct Code	In Trunk ID	Out Trunk ID	Inbound Trunk Group			
Start/ End		6-9	14-17	19-32	33-43	43- 57	68-70	71-73	77-80			
Req?	N	Υ	N	N	N	N	Υ	N	N			

Either the In Trunk ID or Out Trunk ID fields must be populated for this format to be effective with OAISYS. The Dialed Number and Calling Number fields MUST come before the In Trunk ID and Out Trunk ID fields.

DAISYS

Raw F	SYS <sup>®</sup> Format - Outbound										
Field	Time	Duration	Outbound Trunk Group	Dialed number (ext. on inbound)	Calling number	Acct Code	In Trunk ID	Out Trunk ID	Inbound Trunk Group		
Start/ End		6-9	14-17	19-32	33-43	43-57	68-70	71-73	77-80		
Req?	N	Υ	N	N	N	N	N	Υ	N		

Either the In Trunk ID or Out Trunk ID fields must be populated for this format to be effective with OAISYS. The Dialed Number and Calling Number fields MUST come before the In Trunk ID and Out Trunk ID fields.

#### **AVAYA IP OFFICE**

Standard Format – Position based										
Field	Date Time	Duration	Originating Device	Dialed Digits	DNIS	Trunk	Name	Acct Code		
Position/length	1/10	2/8	Below	9-1	19-1	Below	8/7	8/1		
Req?	Υ	Υ	Υ	N	N		N	N		

Position 7 Ext # on In Call, Dialed # on Out Call

Position 12 – Extension field (Party1Device)

Position 15 – Trunk field (Party2Name)

#### **AVAYA MAGIX**

Standard	Standard Format											
Field	Start Date	Start Time	Dialed Number	Duration	Trunk ID	Extension	Acct Code					
Start/End	3-11	12-17	18-37	38-46	47-52	53-57	58-74					
Req?	Υ	Υ	N	Υ	Υ	Υ	N					

This format supports one record per call.

**NOTE:** PRI circuits are not supported with this PBX because the Trunk ID does not match the PRI channel consistently.



# **AVAYA PARTNER ACS**

Standard Format												
Field	Start Date	Start Time	Dialed Number	Duration	Trunk ID	Extension	Acct Code					
Start/End	3-10	12-16	18-32	35-42	45-47	50-52	54-70					
Req?	Υ	Υ	N	Υ	Υ	Υ	N					

This format supports one record per call.

**NOTE:** PRI circuits are not supported with this PBX because the Trunk ID does not match the PRI channel consistently.

Long Phone Number Format											
Field	Start Date	Start Time	Dialed Number	Duration	Trunk ID	Extension	Acct Code				
Start/End	3-10	12-16	18-35	38-45	48-50	53-55	57-73				
Req?	Υ	Υ	N	Υ	Υ	Υ	N				

This format supports one record per call.

**NOTE:** PRI circuits are not supported with this PBX because the Trunk ID does not match the PRI channel consistently.

#### **COMDIAL**

Standard Format									
Field	Ext	Trunk	Date	Time					
Start/length	1/4	6/3	13/5	22/5					
Req?	Υ	Υ	N	N					

#### **ERICSON**

Standard Format											
Field	Long Call?	Date	Time	Duration	See below for extension/trunk						
Start/End		4-9	10-15	16-44							
Req?	N	Υ	Υ	N							

A is outbound:	Start=20/3	Type=Trunk	Start=41/9	Type=EXT
a inbound:	Start=110/4	Type=Trunk	Start=20/4	Type=EXT
E is special outbound:	Start=20/3	Type=Trunk	Start=41/9	Type=EXT
e is special inbound:	Start=110/4	Type=Trunk	Start=20/4	Type=EXT
4 is an inbound redirect	: Start=110/4	Type=Trunk	Start=20/4	Type=EXT



#### **ESI IVX**

Standard Format								
Field	Extension	Trunk ID						
Start/End	27-29	77-78						
Req?	Υ	Υ						

This format supports multiple records per call.

Tabular I	Tabular Format										
Field	Extension	Acct Code	Trunk ID								
Start/End	27-29	60-69	77-78								
Req?	Υ	N	Υ								

This format supports multiple records per call.

#### **INTER-TEL AXXESS**

Standard	Standard Format												
Field	Туре	Extension	Trunk ID	Dialed Number	Time	Duration	Cost	Acct Code					
Start/End	1-3	4-9	10-15	16-44	45-50	51-59	60-66	67-78					
Req?	Υ	Υ	Υ	N	Υ	Υ	N	N					

This format supports one record per call.

#### **IWATSU ADIX**

Standard Format												
Field	Trunk ID	Extension	Duration	Calling ID	Dialed ID	Acct Code						
Start/End	5-7	9-12	21-28	30-44	46-61	62-73						
Req?	N	Υ	N	N	N	N						

This format supports multiple records per call. The format of the Trunk ID is unique to the Iwatsu ADIX platform and is supported.

#### MITEL SX 200

Stand	Standard Format - Inbound													
Field	Long Call?	Date	Time	Duration	Originating Device	Misc	Dialed Digits	Misc	Term Device	XFR event	Acct Code			
Start/ End	1	2-6	7-13	14-22	23-27	28- 33	34-59	60- 61	62-65	66-71	72-84			
Req?	N	Υ	Υ	Υ	Υ	N	N	N	N	N	N			

This format supports one record per call. The XFR event field does not show transfer events in the SX 200; the same format is offered in the SX2000 which does implement this feature. The SX 200 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

**DAISYS**° Standard Format - Outbound **Field** Long Date Time Duration Originating Misc Dialed Misc Term XFR Acct Call? Device **Digits** Device event Code Start/ 1 7-13 14-22 23-27 28-34-59 60-72-84 2-6 62-65 66-71 End 33 61 Ν Ν Req? Ν Υ Υ Υ Ν Ν Υ Ν Ν

This format supports one record per call. The XFR event field does not show transfer events in the SX 200; the same format is offered in the SX2000 which does implement this feature. The SX 200 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

#### MITEL SX 2000

Stand	Standard Format without Transfer Events - Inbound													
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code			
Start/ End			7-13	15-22	24-27	32- 34	34-59		62-65	66-71	73-84			
Req?	N	Υ	Υ	Υ	Υ	N	N	N	N	N	Ν			

This format supports multiple records per call. The SX 2000 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

Standa	Standard Format without Transfer Events - Outbound												
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code		
Start/ End			7-13	15-22	24-27	32- 34	34-59		62-65	66-71	73-84		
Req?	N	Υ	Υ	Υ	N	N	N	N	Υ	N	N		

This format supports multiple records per call. The SX 2000 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

Standard	Standard Format with Transfer Events - Inbound										
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code
Start/End			7-13	15-22	24-27	32- 34	36-61		62-65	66- 71	73- 84
Req?	N	Υ	Υ	Υ	Υ	N	N	N	N	N	N

This format supports multiple records per call. The SX 2000 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

DAISYS **Standard Format with Transfer Events - Outbound** Duration **Field** Long Date Time Originating Time Dialed Misc Term **XFR** Acct Call? Device to Digits Device event Code Ans Start/End 7-13 32-15-22 24-27 36-61 62-65 66-73-

This format supports multiple records per call. The SX 2000 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

Ν

34

Ν

Ν

71

Ν

Υ

Ν

84

Ν

Extended	Extended Format without Transfer Events - Inbound										
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code
Start/End			7-13	17-24	26-32	34- 37	39-64		67-73		84- 95
Req?	N	Υ	Υ	Υ	Υ	N	N	N	N	N	N

This format supports multiple records per call. The SX 2000 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

Extended	Extended Format without Transfer Events - Outbound										
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code
Start/End			7-13	17-24	26-32	34- 37	39-64		67-73		84- 95
Req?	N	Υ	Υ	Υ	N	N	N	N	Υ	N	N

This format supports multiple records per call. The SX 2000 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

Extended	Extended Format with Transfer Events - Inbound										
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code
Start/End			7-13	17-24	26-32	34- 37	39-64		67-73	74- 82	84- 95
Req?	N	Υ	Υ	Υ	Υ	N	N	N	Υ	N	N

This format supports multiple records per call. The SX 2000 uses either "Tnnnn" or "Xnnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

Υ

Ν

Req?

Υ

Υ

DAISYS **Extended Format with Transfer Events - Outbound** Date **Field** Long Time Duration Originating Time Dialed Misc Term **XFR** Acct Call? Device to **Digits** Device event Code Ans Start/End 7-13 17-24 34-26-32 39-64 67-73 74-84-37 82 95

This format supports multiple records per call. The SX 2000 uses either "Tnnnn" or "Xnnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

Ν

Ν

Ν

Υ

Ν

Ν

Ν

#### **MITEL 3300**

Ν

Req?

Υ

Υ

Υ

Standard	Standard Format with Transfer Events - Inbound										
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code
Start/End			7-13	15-22	24-27	32- 34	36-61		62-65	66- 71	73- 84
Req?	N	Υ	Υ	Υ	Υ	N	N	N	N	N	N

This format supports multiple records per call. The SX 2000 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

Standard	Standard Format with Transfer Events - Outbound											
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code	
Start/End			7-13	15-22	24-27	32- 34	36-61		62-65	66- 71	73- 84	
Req?	N	Υ	Υ	Υ	N	N	N	N	Υ	N	N	

This format supports multiple records per call. The SX 2000 uses either "Tnnn" or "Xnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

Extended	Extended Format with Transfer Events - Inbound										
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code
Start/End			7-13	17-24	26-32	34- 37	39-64		67-73	74- 82	84- 95
Req?	N	Υ	Υ	Υ	Υ	N	N	N	N	N	Ν

This format supports multiple records per call. The SX 2000 uses either "Tnnnn" or "Xnnnn" (where "n" = a number) as Trunk IDs, both of which are supported.



Extended	Extended Format with Transfer Events - Outbound										
Field	Long Call?	Date	Time	Duration	Originating Device	Time to Ans	Dialed Digits	Misc	Term Device	XFR event	Acct Code
Start/End			7-13	17-24	26-32	34- 37	39-64		67-73	74- 82	84- 95
Req?	N	Υ	Υ	Υ	N	N	N	N	Υ	N	N

This format supports multiple records per call. The SX 2000 uses either "Tnnnn" or "Xnnnn" (where "n" = a number) as Trunk IDs, both of which are supported.

#### **NEC 2400**

Standard Format									
Field	Trunk Group ID	Trunk ID	Extension	Start Time	End Time	Acct Code			
Start/End	5-7	8-10	14-19	20-29	30-39	40-49			
Req?	N	N	N	Υ	Υ	N			

This format supports multiple records per call. Valid records start with "0!" and the start values described above are each greater than the comparable value in the NEC documentation by 2 due to these extra characters. Enable split billing to get a record on each transfer.

#### **NEC ELECTRA ELITE**

Standard Format									
Field	Trunk ID	Extension							
Start/End	16-23	28-30							
Req?	Υ	Υ							

This format supports multiple records per call.

#### **NEC IPK 1**

Standard Format									
Field Trunk ID Extension									
Start/End	16-23	28-31							
Req?	Υ	Υ							

This format supports multiple records per call.



#### NEC IPK 2

Standard Format										
Field	Start Time	Trunk ID	Extension	Acct Code						
Start/End	6-10	12-21	32-41	64-79						
Req?	Υ	Υ	Υ	N						

This format supports multiple records per call.

#### **NORTEL NORSTAR**

OAISYS supports the Nortel Norstar SMDR

**NOTE:** The version of this system with an additional hardware piece called the MICS dynamically assigns the trunk identifier in the SMDR output. Because of this we cannot match the SMDR output with the corresponding call recording. We cannot support the Norstar when used with the MICS.

#### OLD FORMAT - INBOUND

Normal Event – indicated by RecID = "N"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	Υ	N	Υ	Υ	Υ	

Start Event – indicated by RecID = "S"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	Υ	N	Υ	Υ	Υ	

End Event – indicated by RecID = "E"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	Υ	N	Υ	Υ	Υ	



Transfer Event – indicated by RecID = "X"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	38-42	44-48	50-57
Req?	Υ	Υ	N	Υ	Υ	Υ

Account Code Event – indicated by RecID = "A"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1	10	18-24	38-42	44-48	50-57	
Req?	Υ	Υ	N	Υ	Υ	N	

#### OLD FORMAT - OUTBOUND

Normal Event – indicated by RecID = "N"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	38-42	44-48	50-57
Req?	Υ	N	Υ	Υ	Υ	Υ

Start Event – indicated by RecID = "S"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	N	Υ	Υ	Υ	Υ	

End Event – indicated by RecID = "E"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	N	Υ	Υ	Υ	Υ	

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.

OAISYS*

Transfer Event – indicated by RecID = "X"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	N	Υ	Υ	Υ	Υ	

Account Code Event – indicated by RecID = "A"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	38-42	44-48	50-57
Req?	Υ	N	Υ	Υ	Υ	N

#### **NORTEL MERIDIAN**

The Nortel Meridian issues a different set of fields for normal, start, end, transfer, and account code events. Each will be described separately for each format below.

# OLD FORMAT – INBOUND

Normal Event – indicated by RecID = "N"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	Υ	N	Υ	Υ	Υ	

Start Event – indicated by RecID = "S"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	Υ	N	Υ	Υ	Υ	

End Event – indicated by RecID = "E"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	38-42	44-48	50-57
Req?	Υ	Υ	N	Υ	Υ	Υ

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.

OAISYS°

Transfer Event – indicated by RecID = "X"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	Υ	N	Υ	Υ	Υ	

Account Code Event – indicated by RecID = "A"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1	10	18-24	38-42	44-48	50-57
Req?	Υ	Υ	N	Υ	Υ	N

# OLD FORMAT - OUTBOUND

Normal Event – indicated by RecID = "N"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	38-42	44-48	50-57
Req?	Υ	N	Υ	Υ	Υ	Υ

Start Event – indicated by RecID = "S"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	38-42	44-48	50-57
Req?	Υ	N	Υ	Υ	Υ	Υ

End Event – indicated by RecID = "E"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	N	Υ	Υ	Υ	Υ	

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.



Transfer Event – indicated by RecID = "X"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	N	Υ	Υ	Υ	Υ	

Account Code Event – indicated by RecID = "A"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	38-42	44-48	50-57	
Req?	Υ	N	Υ	Υ	Υ	N	

#### NEW FORMAT - INBOUND

Normal Event – indicated by RecID = "N"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	41-48
Req?	Υ	Υ	N	Υ	Υ	Υ

Start Event – indicated by RecID = "S"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	41-48
Req?	Υ	Υ	N	Υ	Υ	Υ

End Event – indicated by RecID = "E"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	41-48
Req?	Υ	Υ	N	Υ	Υ	Υ

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.



Transfer Event – indicated by RecID = "X"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	26-30	32-36	41-48	
Req?	Υ	Υ	Υ	Υ	Υ	Υ	

Account Code Event – indicated by RecID = "A"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	53-64
Req?	Υ	Υ	N	Υ	Υ	N

# NEW FORMAT – OUTBOUND

Normal Event – indicated by RecID = "N"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	41-48
Req?	Υ	N	Υ	Υ	Υ	Υ

Start Event – indicated by RecID = "S"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	41-48
Req?	Υ	N	Υ	Υ	Υ	Υ

End Event – indicated by RecID = "E"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	41-48
Req?	Υ	N	Υ	Υ	Υ	Υ

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.

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Transfer Event – indicated by RecID = "X"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	41-48
Req?	Υ	N	Υ	Υ	Υ	Υ

Account Code Event – indicated by RecID = "A"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	26-30	32-36	41-48	
Req?	Υ	N	Υ	Υ	Υ	Υ	

#### NEW FORMAT WITH DNIS - INBOUND

Normal Event – indicated by RecID = "N"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	41-47
Req?	Υ	Υ	N	Υ	Υ	Υ

Start Event – indicated by RecID = "S"						
Field	RecID	Originating Device	Term Device	Date	Time	Duration
Start/End	1-1	10-16	18-24	26-30	32-36	41-47
Req?	Υ	Υ	N	Υ	Υ	Υ

End Event – indicated by RecID = "E"							
Field	RecID	Originating Device	Term Device	Date	Time	Duration	
Start/End	1-1	10-16	18-24	26-30	32-36	41-47	
Req?	Υ	Υ	N	Υ	Υ	Υ	

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.

OAISYS <sup>®</sup>

Transfer Event – indicated by RecID = "X"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	26-30	32-36	41-47			
Req?	Υ	Υ	N	Υ	Υ	Υ			

Account Code Event – indicated by RecID = "A"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	26-30	32-36	53-64			
Req?	Υ	Υ	N	Υ	Υ	N			

#### NEW FORMAT WITH DNIS - OUTBOUND

Normal Event – indicated by RecID = "N"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	26-30	32-36	41-47			
Req?	Υ	N	Υ	Υ	Υ	Υ			

Start Event – indicated by RecID = "S"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	26-30	32-36	41-47			
Req?	Υ	N	Υ	Υ	Υ	Υ			

End Event – indicated by RecID = "E"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	26-30	32-36	41-47			
Req?	Υ	N	Υ	Υ	Υ	Υ			

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.

OAISY	5

Transfer Event – indicated by RecID = "X"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	26-30	32-36	41-47			
Req?	Υ	N	Υ	Υ	Υ	Υ			

Account Code Event – indicated by RecID = "A"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	26-30	32-36	53-64			
Req?	Υ	N	Υ	Υ	Υ	N			

#### **NORTEL BCM50**

The Nortel BCM50 issues a different set of fields for normal, start, end, transfer, and account code events. Each will be described separately for each format below.

#### OLD FORMAT - INBOUND

Normal Event – indicated by RecID = "N"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	38-42	44-48	50-57			
Req?	Υ	Υ	N	Υ	Υ	Υ			

Start Event – indicated by RecID = "S"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	38-42	44-48	50-57			
Req?	Υ	Υ	N	Υ	Υ	Υ			

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.



End Event – indicated by RecID = "E"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	10-16	18-24	38-42	44-48	50-57			
Req?	Υ	Υ	N	Υ	Υ	Υ			

Transfer Event – indicated by RecID = "X"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1-1	10-16	18-24	38-42	44-48	50-57		
Req?	Υ	Υ	N	Υ	Υ	Υ		

Account Code Event – indicated by RecID = "A"								
Field	RecID Originating Device Term Device Date Time Dura							
Start/End	1	10	18-24	38-42	44-48	50-57		
Req?	Υ	Υ	N	Υ	Υ	N		

#### OLD FORMAT - OUTBOUND

Normal Event – indicated by RecID = "N"									
Field	RecID Originating Device Term Device Date Time Duratio								
Start/End	1-1	10-16	18-24	38-42	44-48	50-57			
Req?	Y N Y Y Y								

Start Event – indicated by RecID = "S"								
Field	RecID	RecID Originating Device Term Device Date Time Dur						
Start/End	1-1	10-16	18-24	38-42	44-48	50-57		
Req?	Υ	N	Υ	Υ	Υ	Υ		

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.



End Event – indicated by RecID = "E"								
Field	RecID Originating Device Term Device Date Time Durati							
Start/End	1-1	10-16	18-24	38-42	44-48	50-57		
Req?	Υ	N	Υ	Υ	Υ	Υ		

Transfer Event – indicated by RecID = "X"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1-1	10-16	18-24	38-42	44-48	50-57		
Req?	Υ	N	Υ	Υ	Υ	Υ		

Account Code Event – indicated by RecID = "A"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1-1	10-16	18-24	38-42	44-48	50-57		
Req?	Υ	N	Υ	Υ	Υ	N		

#### **SAMSUNG IDCS 500**

Standard Format									
Field	Extension	Trunk ID	Date	Start Time	Acct Code	Name			
Start/End	6-9	16-19	21-25	27-31	67-80	99-114			
Req?	Υ	Υ	Υ	Υ	N	N			

This format supports multiple records per call.

# **TADIRAN CORAL**

New Format (Version 14.xx)								
Field	Date	Time	Duration	Trunk ID	Extension	Acct Code		
Start/End	1-6	7-13	14-21	29-34	42-48	49-53		
Req?	Υ	Υ	Υ	Υ	Υ	N		

This format supports multiple records per call.

<sup>&</sup>quot;A" or "T" = Trunk, "DN" or "" = Stn.

OAISYS°
Old Format

Old Format								
Field	Date	Time	Duration	Trunk ID	Extension	Acct Code		
Start/End		8-12	15-19	27-32	35-39	41-46		
Req?	Υ	Υ	Υ	Υ	Υ	N		

This format supports one record per call.

Standard Format							
Field	Date	Time	Duration	Trunk ID	Extension	Acct Code	
Start/End		8-12	15-19	27-32	35-39	41	
Req?	Υ	Υ	Υ	Υ	Υ	N	

This format supports one record per call.

Standard Format plus Cost									
Field	Date	Time	Duration	Trunk ID	Extension	Acct Code			
Start/End		8-12	15-19	27-32	42-46	48-53			
Req?	Υ	Υ	Υ	Υ	Υ	N			

This format supports one record per call.

# TELTRONICS (FORMERLY HARRIS) 20-20

Standard	Standard Format – Inbound								
Field	Audit	Type	ST	Start Time	End Time	Station/ Trunk #1	Station/ Trunk #2	Acct Code	
Start/End	1-4	6-8	10- 11	20-25	34-39	41-55	57-71	107-122	
Req?	Υ	Υ	Υ	Υ	Υ	Υ	N	N	

This format supports one record per call.

Standard	Standard Format – Outbound								
Field	Audit	Туре	ST	Start Time	End Time	Station/ Trunk #1	Station/ Trunk #2	Acct Code	
Start/End	1-4	6-8	10- 11	20-25	34-39	41-55	57-71	107-122	
Req?	Υ	Υ	Υ	Υ	Υ	N	Υ	N	

This format supports one record per call.

# OAISYS

# TOSHIBA CIX

The Toshiba CIX issues a different set of fields for normal, start, end, transfer, and charge events. Each will be described separately for each format below.

#### STANDARD FORMAT - INBOUND

Normal Event – indicated by RecID = "N"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1-1	14-22	24-32	34-38	40-44	49-56		
Req?	Υ	Υ	N	Υ	Υ	Υ		

Start Event – indicated by RecID = "S"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	14-22	24-32	34-38	40-44	49-56			
Req?	Υ	Υ	N	Υ	Υ	Υ			

End Event – indicated by RecID = "E"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1-1	14-22	24-32	34-38	40-44	49-56		
Req?	Υ	Υ	N	Υ	Υ	Υ		

Transfer Event – indicated by RecID = "X"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1-1	14-22	24-32	34-38	40-44	49-56			
Req?	Υ	Υ	N	Υ	Υ	Υ			

Charge Event – indicated by RecID = "C"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1-1	14-22	24-32	34-38	40-44	49-56		
Req?	Υ	Υ	N	Υ	Υ	Υ		

This format supports multiple records per call.



# STANDARD FORMAT – OUTBOUND

Normal Event – indicated by RecID = "N"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1	14	24	34	40	49		
Req?	Υ	N	Υ	Υ	Υ	Υ		

Start Event – indicated by RecID = "S"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1	14	24	34	40	49		
Req?	Υ	N	Υ	Υ	Υ	Υ		

End Event – indicated by RecID = "E"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1	14	24	34	40	49		
Req?	Υ	N	Υ	Υ	Υ	Υ		

Transfer Event – indicated by RecID = "X"								
Field	RecID	Originating Device	Term Device	Date	Time	Duration		
Start/End	1	14	24	34	40	49		
Req?	Υ	N	Υ	Υ	Υ	Υ		

Charge Event – indicated by RecID = "C"									
Field	RecID	Originating Device	Term Device	Date	Time	Duration			
Start/End	1	14	24	34	40	49			
Req?	Υ	N	Υ	Υ	Υ	N			

This format supports multiple records per call.

# OAISYS

# TOSHIBA STRATA DK

Standard Format without Account Code										
Field	Misc	Trunk ID	Caller ID?	Ext	SDN	Time	Call Duration	Ring Duration	XFR Ext	CID
Start/End	1	2-4	5	6- 10	11- 15	16- 21	22-30	31-36	37-42	43- 64
Req?	N	Υ	N	Υ	N	N	N	N	N	N

This format supports multiple records per call.

Standard Format with Account Code											
Field	Misc	Trunk ID	Caller ID?	Ext	SDN	Time	Call Duration	Ring Duration	XFR Ext	CID	Acct Code
Start/End	1	2-4	5	6- 10	11- 15	16- 21	22-30	31-36	37- 42	43- 64	65-82
Req?	N	Υ	N	Υ	N	N	N	N	N	N	N

This format supports multiple records per call.

# **VODAVIXTS**

Standard Format									
Field	Extension	Extension Trunk ID Start Time		Date	Acct Code				
Start/End	1-4	6-8	19-23	25-32	60-71				
Req?	Υ	Υ	Υ	Υ	N				

This format supports one record per call.