

## 1. New Feature of version 3.25

<i>Feature</i>	<i>Description</i>	<i>Requested From</i>	<i>Special comment</i>
ACD  <a href="#">Manual</a>	Supervisor for multiple ACD Group Verify logged on agents Verify queued call status Verify average agent conversation time Verify longest queued call Verify longest talk time Verify abandon call Multi log on possibility per an agent	<b>INDIA</b>	
Busy Group Display <a href="#">Manual</a>	Busy group service by new ATD using DSS.	<b>INDIA</b>	
Calling Group Call Queuing	Queuing service is added in calling group busy option. When all the extension in calling group is busy, the next arrived calls wait in the queue and an extension goes to idle, the waiting call in the queue is transferred automatically to the extension.	<b>ITALY</b>	
Simple Traffic <a href="#">Manual</a>	This feature allows querying the call status of extension and trunk in call monitoring mode. <ul style="list-style-type: none"> <li>- Extension Traffic Hourly Report</li> <li>- Extension Traffic Statistic Report</li> <li>- Extension Traffic Summary Report</li> <li>- Trunk Traffic Hourly Report</li> <li>- Trunk Traffic Statistic Report</li> <li>- Trunk Traffic Summary Report</li> </ul>	<b>INDIA</b>	

<b>Feature</b>	<b>Description</b>	<b>Requested From</b>	<b>Special comment</b>
SMDA Duplication <a href="#">Manual</a>	Duplication of SMDA <ul style="list-style-type: none"> <li>- SIO + LAN double connection</li> <li>- SIO + SIO double connection</li> <li>- LAN + LAN double connection</li> </ul>	<b>KOREA</b>	
Selective Dial Number Output for SMDA <a href="#">Manual</a>	When dial digit is converted by LCR feature, this function allows selecting the dial digit information in mandatory field between original dialed digit and converted dial digit by LCR and the other one is added in optional field.	<b>KOREA</b>	
DISA Authorization Code for SMDA	When DISA calls access to the outside using authorization code, the authorization code is added in SMDA optional field.	<b>RUSSIA</b>	
Group Prepaid Phone <a href="#">Manual</a>	This function allows disconnecting an outside call of extension by payment in advance. It could be manage by each extension or group.	<b>INDIA</b>	
Call restrict without CID <a href="#">Manual</a>	This function allows denying the calls arrived without CID.	<b>KOREA</b>	
Announcement for Call Fail <a href="#">Manual</a>	When the calls are failed, the error tone could be replaced to the announcement. <ul style="list-style-type: none"> <li>- Vacant / Dial Delay Announce with VPC2</li> <li>- Hold Announce with VPM</li> </ul>	<b>KOREA</b>	
Announcement for Incoming Call <a href="#">Manual</a>	This function allows the extension to hear announcement of incoming call by calling lines when the extension answers incoming call.	<b>KOREA</b>	

Version 3.25  
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<b>Feature</b>	<b>Description</b>	<b>Requested From</b>	<b>Special comment</b>
Meet Me Conference <a href="#">Manual</a>	This function enables an operator (attendant or service phone) register conference call for specific time and internal or external subscribers can access to join the conference on the time.	<b>INDIA</b>	
Enhanced Call Park <a href="#">Manual</a>	Call Park operation flows are changed. When an extension register the call park, the call is parked by a specific index and retrieve the call using the call park index.	<b>RUSSIA</b>	
Enhanced CDR <a href="#">Manual</a>	This function allows restricting call duration time based on dial digit.	<b>RUSSIA</b>	
Document Manager <a href="#">Manual</a>	FW Version Check Wizard Trace Wizard Site History Manager	<b>COMMON</b>	
Voice Networking - Centralized COS <a href="#">Manual</a>	When the extension of slave system try to access to the PSTN in master system through the QSIG network, the toll restriction in master system is applied based on the class of calling extension in slave system.	<b>ITALY</b>	ITGC: v3.70 or later

## 2.22 Multi Logon/Logoff

### Description

This feature is to distribute ACD I/B calls arriving at the multiple ACD group (Split) to an agent. This feature allows log-on agent. Multi splits logon allows that receive call in splits. Agent Multi splits log-on/off restrict to three splits.

### How to Use

1. Multi Logon

When the agent uses a DKTU

**FUNCTION BUTTON** + **Split Number**

2. Multi Logoff

When the agent uses a DKTU

**FUNCTION BUTTON** + **Split Number**

3. Multi Logon Status

**FUNCTION BUTTON**

### Data Generation

1. Register Multi logon/Off at a flexible button of DKTU. [\[Ref. 3.2.11\]](#)  
*[ACD Management] Terminal Information/Button Data*
2. Register Multi Logon/Off Split No. [\[Ref. 3.2.14\]](#)  
*[ACD Management] Multi Logon Data*
3. Register Multi logon Status at a flexible button of DKTU. [\[Ref. 3.2.11\]](#)  
*[ACD Management] Terminal Information/Button Data*

### Note

## 2.30 Split Change (Supervisor)

### Description

This feature is to control other split. It supports same function own split.

### How to Use

1. Split Change

When the agent uses a DKTU

**FUNCTION BUTTON** + **Split Number**

### Data Generation

1. Register Multi logon/Off at a flexible button of DKTU. [\[Ref. 3.2.11\]](#)  
*[ACD Management] Terminal Information/Button Data*

### Note

## 2.32 Verify Split Status (Supervisor)

### Description

This feature is to display split status to supervisor DKTU LCD. It supports queued call status, logged on agent status, split abandon call status, supervisor split number.

### How to Use

#### 1. Verify Split Status

When the agent uses a DKTU

**FUNCTION BUTTON** + **Verify Code**

☞☞ Verify Code 01 : Queued Call Status

```
CINQ 000 N-CALL 00:00
2000-03-01          09:00 am
```

000 ☞ No of Queued Call

00:00 ☞ Longest Wait Call Time

☞☞ Verify Code 02 : Logged On Agent Status

```
AGTSTS 00 00 00 00 00
2000-03-01          09:00 am
```

00 ☞ Logged-on Agent No

00 ☞ Ready Agent No

00 ☞ Not Ready Agent No

00 ☞ ACW Agent No

00 ☞ Other Agent No

☞☞ Verify Code 03 : Split Abandon Call Status

```
ABANDON 00000
2000-03-01          09:00 am
```

00000 ☞ Abandon Call Count

☞☞ Verify Code 04 : Supervisor Split Number

### Data Generation

#### 1. Register Multi logon/Off at a flexible button of DKTU. [\[Ref. 3.2.11\]](#)

*[ACD Management] Terminal Information/Button Data*

### Note

## 2.33 Verify Agent Status (Supervisor)

### Description

This feature is to display Agent conversation time to supervisor DKTU LCD. It supports agent average conversation time, agent longest conversation time.

### How to Use

1. Verify Agent Status

When the agent uses a DKTU

**FUNCTION BUTTON** + **Agent Number**

VG 00:00 LONG 00:00
2000-03-01 09:00 am

00:00 ⚡ Agent average conversation time

00:00 ⚡ Agent longest conversation time

### Data Generation

1. Register Multi logon/Off at a flexible button of DKTU. [\[Ref. 3.2.11\]](#)

*[ACD Management] Terminal Information/Button Data*

### Note

### 3.2.11 Button Data

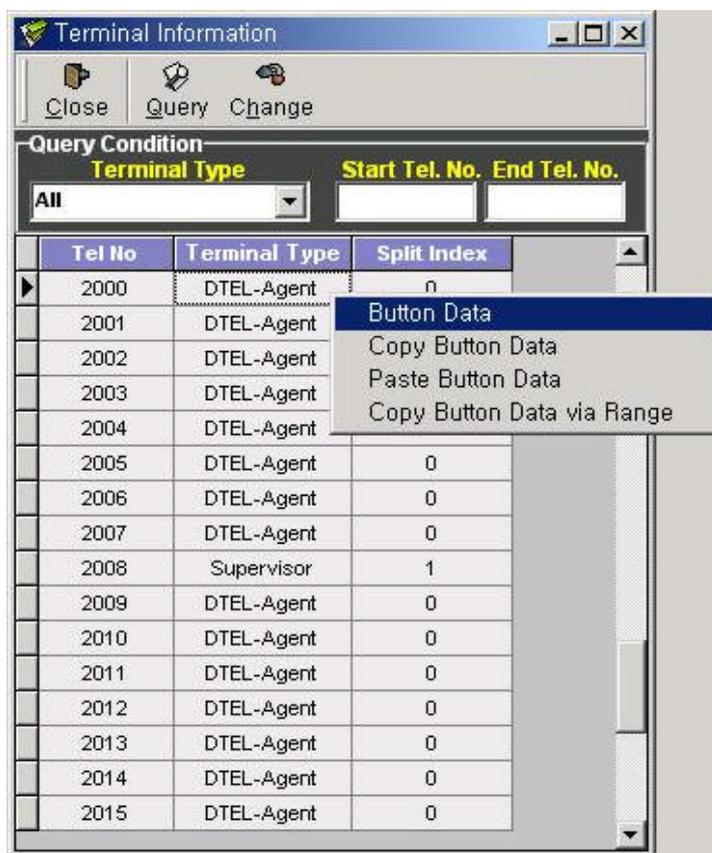
#### Description

This feature is to register features with flexible buttons of Agent or Supervisor DKTU, if only used.

#### Configuration

1. How to Display

Click the right mouse button on a selected number from Terminal Information. Then, a pop-up menu will be brought up as shown in [Figure 3.2.11-1].

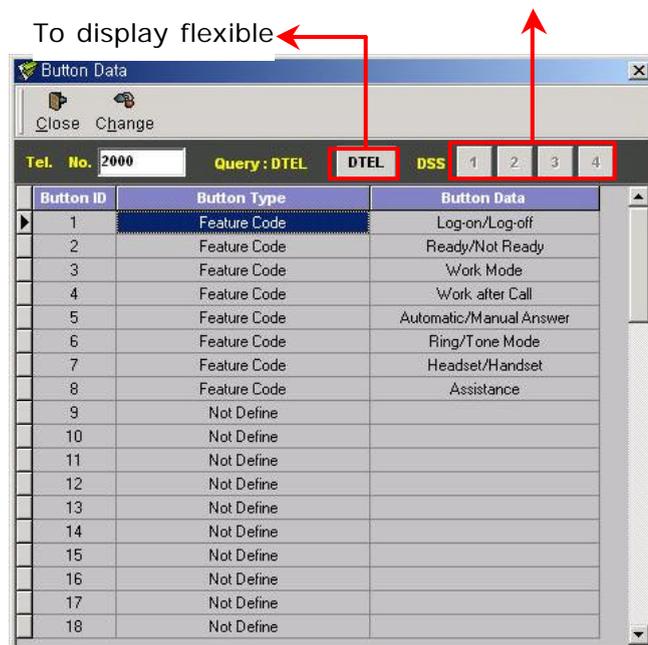


[Figure 3.2.11-1]

Select 'Button Data'. Then the button data will be displayed as shown in [Figure 3.2.11-2] below.

DSS Connection Information

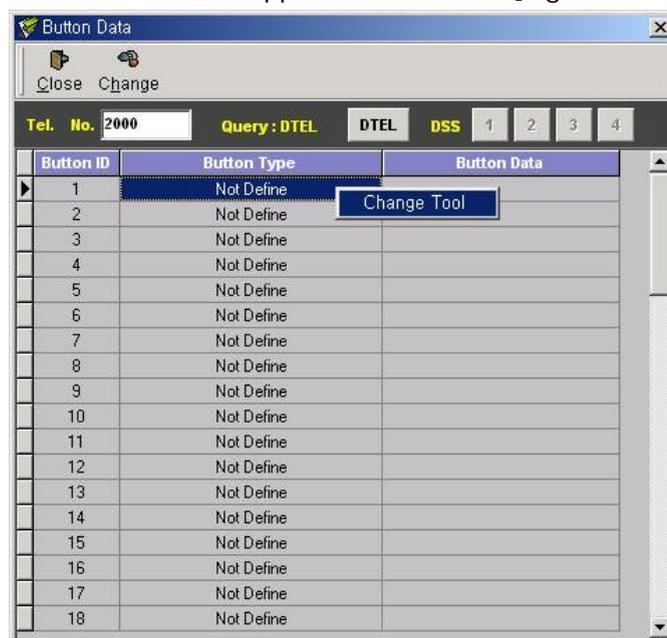
If a DSS is connected to a telephone, it can be enabled.  
To display the flexible button data, press DSS.



[Figure 3.2.11-2]

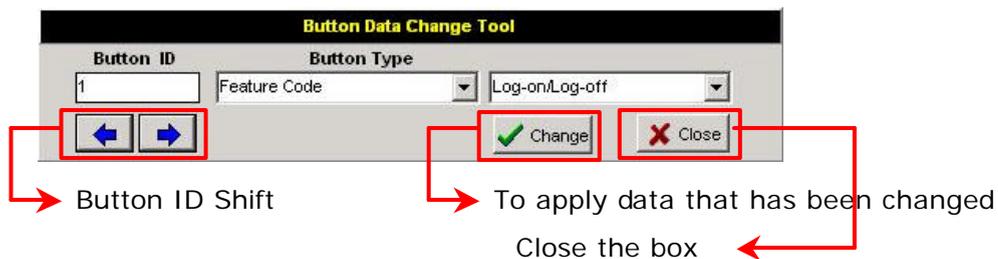
2. How to Change

- (1) Click the right mouse button on a selected ID. A pop-up of 'Change Tool' menu will appear as shown in [Figure 3.2.11-3] below.



[Figure 3.2.11-3]

- (2) Choose Change Tool from the pop-up menu. A dialog box will be brought up as shown in [Figure 3.2.11-4].



[Figure 3.2.11-4]

- (3) If you finish registering features per Button ID, click the **Change** button in [Figure 3.2.11-2] to apply the data that has been changed.

3. Copy Button Data/Paste Button Data

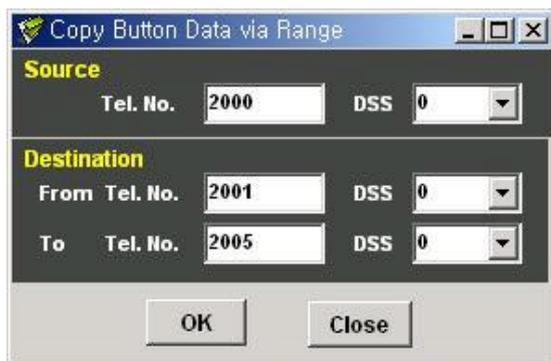
Copy the button data of telephone (A) for Agent or Supervisor to telephone (B).

- (1) Choose (A) and select 'Copy Button Data' from the pop-up menu of [Figure 3.2.11-1].
- (2) Choose (B) and select 'Paste Button Data' from the pop-up menu of [Figure 3.2.11-1].

4. Copy Button Data via Range

Copy the button data of telephone (A) for Agent or Supervisor to several telephones.

Choose (A) and select 'Copy Button Data via Range' from the pop-up menu of [Figure 3.2.11-1]. Then a dialog box will appear as shown [Figure 3.2.11-5] below.



[Figure 3.2.11-5]

**Note**

1. Data per Button Type

- ☞ Trunk Serial Number  
Data: trunk serial number  
Function: seizing an assigned trunk

- ☞☞ Extension  
Data: Extension number  
Function: calling an assigned extension number
- ☞☞ Feature Button  
Data: (Note 2)  
Function: performing a specified feature
- ☞☞ Trunk Code with external party  
Data: caller number including the trunk access code (up to 20 digits)  
Function: calling an assigned number
- ☞☞ Hold (Pool/Loop)  
Data: no input data  
Function: holding an active call using the HOLD
- ☞☞ Speed (Digit)  
Data: registering random digits like various feature codes (up to 20 digits)  
Function: activated depending on analysis of digits that are registered

2. Feature Code

Feature code	DKTU Agent	Supervisor
Log-on/off	O	O
Incoming Call answer	O	O
Call release	O	O
Ready/Not ready	O	O
Work mode (Automatic / Manual)	O	O
Work after call (Work / Answering)	O	O
Answer Mode (Automatic/Manual)	O	O
Ring/Tone mode	O	O
Headset/Handset	O	O
Assistance	O	O
Split Call Forwarding	X	O
Split Do Not Disturb	X	O
Multi Log-On Status	O	O
Multi Log-On/Off	O	O
Verify Split Status	X	O
Verify Agent Status	X	O
Change Split	X	O

## Attendant – Busy Lamp Field

### General Description

This function enables an attendant to verify the extension status in the related group assigning trunk lines and extensions as the busy group. This function is available only in DSAC.

### Operation Sequence

☞☞ Busy lamp filed on the attendant

- 1 The operator presses the BUSY GRP key.
- 2 The LED of BUSY GRP key will turn on.
- 3 The operator dials the number of trunk or extension group to be verify.
- 4 The dialing number is displayed on BUSY: of LCD of the attendant.
- 5 The operator presses the ENT key.
- 6 The availability of the registered trunks or extensions in the related group is continuously displayed on LCD of the attendant.
- 7 The operator presses BUSY GRP key while the LED of BUSY GRP key turns on.
- 8 The group number displayed on LCD of the attendant is cleared and the registered availability status is canceled.

☞☞ Busy lamp filed on the NEW attendant

- 1 The operator presses the LAMP TEST key.
- 2 The LED of LAMP TEST key will turn on.
- 3 The operator dials the number of trunk or extension group to be verify.
- 4 The dialing number is displayed on BUSY: of LCD of the attendant.
- 5 The operator presses the ENT key.
- 6 The availability of the registered trunks or extensions in the related group is continuously displayed on LED of the DSS that is assigned to the attendant.
- 7 The operator presses BUSY GRP key while the LED of BUSY GRP key turns on.
- 8 The group number displayed on LED of the DSS is cleared and the registered availability status is canceled.

### Service Conditions

☞☞ If the operator does not press the ENT key and presses the CLR key, the RLS key or other action after dialing the group number of trunk or extension to be verified, the relater group will be canceled.

☞☞ When the group of the extension is assigned, the remaining figures excerpt the last two digits of the related number are assigned as the group number of the

concerned number. For example, the group number is 2 when you register the extension number from 200 to 299, and the group number is 20 when you register the extension number from 2000 to 2099 for the busy field lamp.

☞☞ When the group of the trunk line is assigned, the remaining figures except the last two digits of the related trunk serial number are assigned as the group number of the concerned number.

~~☞☞ This function is available only in DSAC.~~

☞☞ To enable this function of the new attendant, the option of busy group service should be defined and then the attendant should be restarted.

☞☞ The LAMP TEST key is used to define busy group. In this case the LAMP TEST key can't be used to verify the lamp status.

☞☞ The new attendant should be assigned DSS more than one and the first DSS is used to display the status of busy group.

☞☞ When the busy group is defined, the first DSS can't be used to make a call using the flexible button.

☞☞ When the busy group is canceled, the first DSS can be used to make a call using the flexible button.

### **Data Generation**

☞☞ To enable the busy lamp field of the NEW attendant

[16.12 Temporary Option] – 34. Use DATD Busy Group Svc = 0001

### **Interactions**

☞☞ There are two kinds of attendant console in the CS1000. One is DSAC that has 100 Lamps for station and trunk status and another is DATD that has up to 3 DSSs. Most of attendant functions are available on two models in common, but a part of attendant functions is available on one model only. The available function is mentioned on each function especially.

## Simple Traffic

### General Description

This function allows displaying the call status of the system. It supports extension call traffic and trunk outgoing/incoming call traffic.

#### ☞☞ Extension Traffic Hourly Report

Report Item	Description
Calls Total	Calls Extension Attempted
Calls Answered	Called party answer
Calls Abandoned	Calling party hangs on in RBT state.
Calls Failed	Called is in abnormal state. - BUSY, DND, Blocking, ETC

#### ☞☞ Extension Traffic Statistic Report

Report Item	Description
Calls Total	Calls Extension Attempted
Calls Succeeded	Called party answer
Calls Abandoned	Calling party hangs on in RBT state.
Calls Failed	Called is in abnormal state. - BUSY, DND, Blocking, ETC
Rate of Answer	Total Answer Call Rate (Today)
Rate of Abandon	Total Abandon Call Rate (Today)
Rate of Failed	Total Failed Call Rate (Today)

- Calls Total : Calls Answered + Abandoned + Failed

#### ☞☞ Extension Traffic Summary Report

- ☞☞ Last hour
- ☞☞ Today's peak time
- ☞☞ Yesterday's peak time
- ☞☞ Today's total
- ☞☞ Yesterday's total

☞☞ Trunk Traffic Hourly Report

Report Item	Description
Calls Total	Calls Incoming/Outgoing Seizure, Failed
Outgoing Seizure	Outgoing Attempt
Outgoing Answer	Called party answer
Outgoing Fail	Outgoing port all busy

Report Item	Description
Incoming Seizure	Incoming Attempt
Incoming Answer	Called party answer

☞☞ Trunk Traffic Statistic Report

Report Item	Description
Calls Total	Calls Incoming/Outgoing Seizure, Failed
Outgoing Seizure	Outgoing Attempt
Outgoing Answer	Called party answer
Outgoing Fail	Outgoing port all busy
Rate of Outgoing	Total Outgoing Call Rate per route (Today)
Rate of Outgoing Answer	Total Outgoing Answer Rate per route (Today)
Rate of Outgoing Fail	Total Outgoing Failed Rate per route (Today)

Report Item	Description
Incoming Seizure	Incoming Attempt
Incoming Answer	Called party answer
Rate of Incoming	Total Incoming Call Rate per route (Today)
Rate of Incoming Answer	Total Incoming Answer Rate per route (Today)

- Calls Total : Calls Incoming Seizure + Outgoing Seizure + Outgoing Failed

☞☞ Trunk Traffic Summary Report

- ☞☞ Last Hour
- ☞☞ Today's peak time
- ☞☞ Yesterday's peak time
- ☞☞ Today's total
- ☞☞ Yesterday's total

### **Operation Sequence**

#### **☞☞ Simple Traffic Summary**

- Extension/Trunk Call Traffic Summary  
CALL\_MON> traf -a

#### **☞☞ Extension Call Traffic**

- Extension Call Traffic Summary  
CALL\_MON> traf -b
- Extension Call Traffic Hour Report  
CALL\_MON> traf -b -e : Today Summary  
CALL\_MON> traf -b -f : Yesterday Summary

#### **☞☞ Trunk Call Traffic**

- Trunk Call Traffic Summary  
CALL\_MON> traf -c
- Trunk Call Traffic Hour Report  
CALL\_MON> traf -c -e : Today Summary  
CALL\_MON> traf -c -f : Yesterday Summary

#### **☞☞ Simple Traffic Statistics**

- Extension/Trunk Call Traffic Statistics  
CALL\_MON> traf -d
- Extension/Trunk Call Today/Yesterday Traffic Statistics  
CALL\_MON> traf -d -e : Station Today/Yesterday Summary  
CALL\_MON> traf -d -f : Trunk Today/Yesterday Summary

### **Service Conditions**

### **Data Generation**

### **Interactions**

## **SMDA (Station Message Detail Accounting)**

### **General Description**

This function allows sending charge information to external billing device according to defined format and protocol to calculate charge of outgoing/incoming/extension call. An external billing device can be connected via SIO or LAN. Charging duplication is possible according to system option. An external billing device is connected to CS1000 as follows:

- SIO single connection
- LAN single connection
- SIO + LAN double connection
- SIO + SIO double connection
- LAN multiple connection (Port Number discrimination)

### **Operation Sequence**

#### **Extension Call Charge**

- 1 The extension A makes a call to the extension B.
- 2 The extension B answers. (Charge information starting point)
- 3 Conversation with each other.
- 4 One of them hangs up. (Output charge information message making point)

#### **Trunk Outgoing Call Charge**

- 1 An extension or a leased line subscriber makes a call to an external subscriber.
- 2 An external subscriber answers. (Charge information starting point)  
(If outgoing trunk type is C/O without answer signal, call charging starts after pre-assigned time.)
- 3 Conversation with each other.
- 4 One of them hangs up. (Output charge information message making point)

#### **Trunk Incoming Call Charge**

- 1 An external subscriber makes a call to an extension or a leased line subscriber.
- 2 An extension or a leased line subscriber answers. (Charge information starting point)
- 3 Conversation with each other.
- 4 One of them hangs up. (Output charge information message making point)

### **Service Conditions**

An external billing device should follow the protocol data that CS1000 offers.

Information included charging message follows protocol data that CS1000 offers.

- ☞☞ In case that external billing device is not connected with CS1000, CS1000 can store charging information up to the maximum 20,000 and discards additionally generating charging information.
- ☞☞ CS1000 should be restarted after loading Config.sys including connection method and interface with an external billing device and whether to duplicate billing or not. (Default, CS1000 sends charge information message via SIO CN4 only if there is no definition.)
- ☞☞ The interface of charging information can be separated from the interface of PMS information in case of singular charging.
- ☞☞ In case of charging duplication, connected external billing devices receive same charge information.
- ☞☞ In below Cases, charging messages are not expected.
  - 1    Outgoing call is sent to no metering trunk call.
  - 2    Outgoing call is no metering extension call.
  - 3    A call to no charge external subscriber (emergency call)
  - 4    An extension subscriber makes a call through no charge-leased line (An extension's characteristic, All Call Charge must not be assigned.)
  - 5    An extension subscriber makes a no charge local call. (An extension's characteristic, All Call Charge must not be assigned.)

### **Data Generation**

- ☞☞ Make Config.sys file  
    [config => 1.10 Config File Maker]
- ☞☞ Assign charging output device  
    [11.1 Charge option    Charge Result Output Device]
- ☞☞ Assign whether to charge or not  
    Outgoing Call : If assigned charging output device, execute default.  
    Incoming Call : [11.1 Charge Option => I/C Call Charge]  
    Internal Call : [11.1 Charge Option => Internal Call Charge]
- ☞☞ Assign Leased Line charging  
    [11.1 Charge Option   => Tie Call Charge]
- ☞☞ Assign charge Local Call  
    [11.1 Charge Option => Local Call Charge]
- ☞☞ Assign no metering trunk  
    [4.1 Trunk Information => Trunk Option => 7. No Metering]
- ☞☞ Assign no charge extension  
    [3.1 Extension information => Extension Characteristic => 9. No charge]
- ☞☞ Assign all call charge extension

[3.1 Extension information – Extension Characteristic 10.All Call Charge]

Assign no charge external subscriber number

[11.2 No charge code]

Assign the extension whose charging information is displayed on the LCD of the attendant.

[3.1 Extension information – Extension Characteristic 38.Charge send to ATD]

Indicate ASICII value of Charge information message.

[11.1 Charge Option => Billing Message (Hex/Decimal)]

Assign whether to check BCC of charge information message or not

[11.1 Charge Option => PMS/Billing Message BCC Check]

Assign charging start time of trunk without answer signal

[11.1 Charge Option => Charge start time]

Assign whether to put LCR Digits in mandatory field of charging information message or not

[11.1 Charge Option => LCR Digits in Mandatory Field]

### **Interactions**

16M Byte size DiskOnChip of CPM is required for charging duplication.

Refer to CS1000 SMDA Protocol document.

Charging File in singular mode : PMSTX.DQ (Including PMS Message and Billing Message or Billing Message)

Charging Files in Duplication mode : PMSTX.DQ and SMDA2.DQ

SIO and LAN Connection method for External device Interface.

1 External device Interface Types.

VMS MSI (SIO or LAN) – VMS on [Config File Maker] of OMS

PMS and Billing (SIO or LAN) – PMS/Billing on [Config File Maker] of OMS

Billing Only (SIO or LAN) – Billing on [Config File Maker] of OMS

Billing Duplication (SIO or LAN) – Billing(second) on [Config File Maker] of OMS

Alarm Box (SIO Only) – Alarm Box on [Config File Maker] of OMS

TAPI Server (SIO or LAN) – Use TAPI on [Config File Maker] of OMS

ANI TX (SIO Only) – ANITX on [Config File Maker] of OMS

Police Function Interface only for RUSSIA (SIO or LAN) – POLICE FUNCTION on [Config File Maker] of OMS

2 PMS and Billing and Billing Only can not be used at the same time, in case of using Billing Only, only PMS Message is offered to the interface of PMS and Billing.

- 3 Charging Duplication can be used in the form of PMS and Billing / Billing(Second) or Billing Only / Billing(Second).
- 4 In case of LAN interface, the port for PMS and Billing is 6012, the port for Billing Only is 6013 and the port for Billing(Second) is 6014.
- 5 System SIO can be used up to maximum 2 at the same time in order to support above functions.
- 6 Connection method of each service can be assigned at [Config.sys File Maker] of OMS.
- 7 If there is no Config.sys file, default interface is as follow:  
SIO2 : VMS MSI  
CN4 : PMS and Billing

## Budget-based Disconnection by Metering Tone

### General Description

This function allows disconnecting an outside call of extension by payment in advance.

### Operation Sequence

☞☞ Outgoing using Pre-payment of Pre-payment Group

- 1 Lift the handset.
- 2 Dial the Pre-paid Out Call Code (Default: \*47).
- 3 Dial pre-payment group No (001 ~ 100).
- 4 Dial a password of pre-payment group.
- 5 Dial trunk access code and outside subscriber number.
- 6 PBX decreases pre-payment of the pre-payment group whenever PBX receives metering tone form PSTN.
- 7 If the pre-payment runs short, the outgoing extension hears warning tone.
- 8 The outgoing call can be disconnected or can be maintained by the option.

☞☞ Outgoing using Pre-payment of Extension

- 1 Lift the handset.
- 2 Dial the Pre-paid Out Call Code (Default: \*47).
- 3 Dial pre-payment group No 000.
- 4 Dial own password.
- 5 Dial trunk access code and outside subscriber number.
- 6 PBX decreases pre-payment of the pre-payment extension whenever PBX receives metering tone form PSTN.
- 7 If the pre-payment runs short, the outgoing extension hears warning tone.
- 8 The outgoing call can be disconnected or can be maintained by the option.

### Service Conditions

- ☞☞ It requires APTC with ATCU-TR sub board.
- ☞☞ The extension characteristic 'Pre-paid Use' should be assigned to an extension. For transit, the trunk characteristic 'Pre-paid Use' should be assigned to a trunk.
- ☞☞ There are maximum 100 pre-payment groups in a system.
- ☞☞ An extension can belong to maximum 3 pre-payment groups.
- ☞☞ A trunk port can belong to only 1 pre-payment group.
- ☞☞ There is no limitation of maximum element in a pre-payment group.
- ☞☞ There are 6 levels to enable to assign value of pre-payment. The maximum value of pre-payment is 99999999. The unit is same as the unit for metering tone of '11.1 Charge Option' on OMS.
- ☞☞ Each extension and pre-payment group has a level of pre-payment.

- ☞☞ An outgoing extension can dial its password or pre-payment group's password by the pre-payment group based option.
- ☞☞ The default value of extension's password and pre-payment group's password is 0000. PBX considers that '0000' is invalid for a password. The password must be changed to other value.
- ☞☞ When the pre-payment runs short, call is handled after hearing warning tone by 3 options as follow:
  - 1 Disconnecting the current call after a while and impossible making an outgoing call from next.
  - 2 Keeping the current call and impossible making an outgoing call from next.
  - 3 Keeping the current call and possible making an outgoing call from next.In case of B and C, PBX keeps overflow charge and reports to ATD consol. PBX deducts overflow charge from pre-payment when pre-payment is entered. Maximum overflow charge is 59999.
- ☞☞ If an extension is a hotel guest, he/she can't use pre-payment outside call feature code.
- ☞☞ The pre-payment feature is not applicable for ATD.

### **Data Generation**

- ☞☞ Assigning Metering Tone Trunk
  - [4.1 Trunk Information - Trunk Characteristic 18.Metering Tone]
- ☞☞ Assigning Pre-payment Level
  - [Pre-payment Level]
- ☞☞ Assigning Pre-payment Group
  - [Pre-payment Group]
- ☞☞ Assigning Pre-payment Extension
  - [Pre-payment Extension]
- ☞☞ Assigning the alert tone
  - [2.4 System Tone Parameter Pre-paid Conv. Disconnect Alert Tone]
- ☞☞ Assigning the waiting time to disconnect
  - [2.3 System Lock Parameter Pre-paid Conv. Disconnect Wait Time]
- ☞☞ Confirming Pre-payment Extension
  - [3.1 Extension Information - Extension Characteristic 26.Pre-paid Use]
- ☞☞ Confirming Pre-payment Trunk
  - [4.1 Trunk Information - Trunk Characteristic 26.Pre-paid Use]

*Interactions*

## Calling/Connected Line Identification (CLIP, COLP)

### General Description

This function enables to display calling party number and called party number on the LCD of DKTU, ATD and DECT or external device for Single Line Telephone (SLT).

### Operation Sequence

#### ☞☞ Extension call calling/called party number display

- 1 Extension 2000 calls extension number 3000.  
"CALL TO 3000" is displayed on the LCD of 2000.  
"CALL FROM 2000" is displayed on the LCD of 3000.
- 2 Extension 3000 answers.  
"CONNECT TO 3000" is displayed on the LCD of 2000 and "CONNECT TO 2000" is displayed on the LCD of 3000.

#### ☞☞ Trunk call calling/called party number display

- 1 For incoming call  
When the calling party number is received, the calling party number and the trunk line number are displayed on the LCD of the called party. But for ISDN and QSIG trunks, if Calling Line identification Restriction (CLIR) is requested, "CLIR" is displayed on the LCD of the called party.  
If the calling party number is not received, "LINE RINGING" and the trunk line number are displayed on the LCD of the called party.
- 2 For outgoing call  
When the called party number is received, the called party number and the trunk line number are displayed on the LCD of the calling party. But for ISDN and QSIG trunks, if Connected Line Identification Restriction (COLR) is requested, "COLR" is displayed on the LCD of the calling party.  
If the called party number is not received, the number that the calling party dialed and the trunk line number are displayed on the LCD of the calling party.

#### ☞☞ Restriction and allowance of calling/called party number by extension.

- 1 Off Hook.
- 2 Press the function code (\*95).
- 3 Enter option. (1: Restrict transmission, 0: Allow transmission)
- 4 Function registration completion tone is heard.
- 5 On Hook.

### Service Conditions

☞☞ The types of trunk should be as below to display calling party and called party

numbers.

- 1 ISDN and QSIG trunk call that include calling party/called party numbers.
- 2 R2 trunk including calling party numbers.
- 3 VOIP trunk including calling party numbers.
- 4 CO trunk including calling party number based on FSK

☞☞ To display calling party number and called party number received from trunk call, the OMS should assign the function to each DKTU. However, the numbers shall be displayed on the LCD of the attendant in any case.

☞☞ To display calling party number and called party number on LCD of external device for SLT, in case of ASLC and ASLC2 board, the FSKC board should be installed. Default FSK type of FSKC is SDMF and selectable types are SDMF and MDMF. In case of ASLC3, caller ID sending type of each SLT should be selected and selectable types are FSK-SDMF and FSK-MDMF. In case of ASLC-ops, caller ID sending type of each SLT should be selected and selectable types are DTMF, FSK-SDMF and FSK-MDMF.

☞☞ For R2 trunk call, the OMS can assign whether to request calling party number to the trunk by routes, extensions and calling groups.

☞☞ For ISDN, QSIG trunk, the calling/called party number transmission can be restricted or allowed in the whole system or by extensions.

☞☞ For VOIP trunk call, the calling/called party number transmission cannot be restricted.

☞☞ The types of ISDN calling party/called party number can be selected as below.

Description	Information
International	Country Code + Own Area Code + DDI Prefix + Ext. No
National	Own Area Code + DDI Prefix + Ext. No
Subscriber	DDI Prefix + Ext. No
Unknown	Ext. No

For a leased line, the number is transmitted in unknown type regardless of option. When Own PBX code is generated in the system, numbers are transmitted in Own PBX Code + Ext. No type.

### Data Generation

☞☞ Whether to display DKTU calling party/called party number

[3.1 Extension information] – Extension characteristics information, 20.CLI/CNI Display

☞☞ Whether to display DECT calling party/called party number

- [9.3 DECT Information] – DECT Characteristic 20.CLI/CNI Display
- ☞ Assign FSK type of FSKC board
  - [FSKC Type Coding] – Select the FSK type by clicking the right button of the mouse on [2.2 System Local Board] screen.
- ☞ Assign caller ID sending type of each SLT on ASLC2 and ASLC-ops
  - [Caller ID Sender Select] – Select the caller ID sending type by clicking the right button of the mouse on [2.2 System Local Board] screen.
- ☞ Whether to request R2 calling party number by routes
  - [4.8 Trunk Route Base All Option] – ANI Information request.
- ☞ Whether to request R2 calling party number by extensions
  - [3.1 Extension information] – Extension characteristics information 25.Malice Trace
- ☞ Whether to request R2 calling party number by calling groups
  - [6.4 Calling group] – Calling group sub information R2 ANI Request
- ☞ Whether to allow/restrict ISDN trunk calling party/called party number transmission
  - [7.2 ISDN option] – Line Identification Restriction
- ☞ Assignment of ISDN trunk calling party/called party number type
  - [7.2 ISDN option] – Line Identification Sending Type
- ☞ Whether to allow/restrict QSIG trunk calling party/called party number transmission
  - [7.2 ISDN option] – Line Identification Restriction
- ☞ Assignment of Country Code, Own Area Code, DDI Prefix, Own PBX Code
  - [1.1 System setup information]
- ☞ Whether to allow/restrict connection between routes
  - [4.10 Inter Routes connection allow/deny]
- ☞ Whether to append system own code to calling party number received from incoming trunk
  - [4.8 Trunk Route Base Option => Append Owncode to CLI(In I/C Gr.)]
- ☞ Whether to send outside call forward registered extension number instead of calling party number of trunk when trunk outgoing calls.
  - [4.8 Trunk Route Base Option => Select CLI For Outside CFWD(In O/G Gr.)]
- ☞ Whether to allow/reject incoming call without CLI from trunk.
  - [3.1 Extension information] – Extension characteristics information 49. Non CLI Call Rej.

## Interactions

☞☞ Whether to allow transit of calling party /called party number

	R2	ISDN	OSIG	VOIP
R2	YES	YES	NO	YES
ISDN	YES	YES	YES	YES
OSIG	NO	YES	NO	NO
VOIP	YES	YES	NO	YES
FSK CID	YES	YES	NO	YES

☞☞ In case that CLI(Calling Line Identification) for Outside Call Forward [4.8 Trunk Route Base Option => Select CLI For Outside CFWD(In O/G Gr.)]

- 1 When an outside subscriber makes a call, a forwarded outside subscriber can receive the number of originating outside subscriber as CLI or the number of a forwarding extension as CLI by the option
- 2 When an extension makes a call, a forwarded outside subscriber can receive the number of originating extension as CLI or the number of forwarding extension as CLI by option.

☞☞ ASLC3 and ASLC-ops can be installed over the version 3.20 of CPM.IMG.

## Voice Guidance - Abnormal State Announcement

### General Description

This function allows the extension to hear announcement of abnormal state when the extension make abnormal internal call or outside call.

### Operating Procedure

☞☞ Vacant Announcement.

- 1 The extension lifts the handset.
- 2 The extension dials a vacant internal number.
- 3 The extension hears the announcement that the number is wrong.

☞☞ Dial Late Announcement

- 1 The extension lifts the handset.
- 2 The extension dials other extension number lately.
- 3 The extension hears the announcement that dialing is late.

### Service Conditions

☞☞ The VPC board should be installed in the CS1000 system.

☞☞ The VPC board can install only one board.

☞☞ The voice announcement should be recorded in the token of the VPC board. The relevant voice announcement should be recorded in token number 68 and 69.

☞☞ The announcement will be heard twice.

☞☞ SLT and DKTU can hear the announcements.

☞☞ The extension can hear the vacant announcement of outside call only if the extension receives vacant information from trunk.

☞☞ The extension can hear the dial late announcement after [DP Total Digit Dial Lock] or [DTMF Total Digit Dial Lock] on 2.3 System Lock Parameter of OMS.

### Data Generation

☞☞ Assign the VPC board

[2.2 System Local Board]

☞☞ Record the voice announcement in the token of VPC board.

On telephone: [Function Code \*732]

VPC Board: Upload a wave file through SIO (Rate: 57600bps)

### **Interactions**

☞☞ The voice announcement can be recorded in the token by the handset (SLT and DKTU). The procedure of the recording is as follows:

Record:           \*732 + Token # + Announcement Recording + On Hook  
Verify:           \*731 + Token # + Announcement Verify + On Hook  
Delete:           \*733 + Token # + Announcement Delete + On Hook

*Note: Token # is made up by 3 digits (001 ~ 100)*

*You can hear beep sound (Token 62) to notify the start of record before you record the voice on a telephone if beep sound is already recorded.*

☞☞ Upload a token wave file via SIO

- 1     Connect SIO cable between VPC board and PC.
- 2     Execute an emulator program on PC. (Rate: 57600bps)
- 3     Every character is possible as Login ID.
- 4     Enter the command "call".
- 5     Enter the command "load".
- 6     upload a wave file (CCITT A-Law 8 kHz, 8bit) using z-modem.

☞☞ Refer to the Do Not Disturb (DND) for registration or cancellation of the relevant service.

## Voice Guidance - Incoming Call Announcement

### General Description

This function allows the extension to hear announcement of incoming call by calling lines when the extension answers incoming call.

### Operating Procedure

- 1 The extension hears the ring.
- 2 The extension answers.
- 3 The extension hears the announcement of incoming call by calling lines as follows: that time calling subscriber hears RBT.

Calling Line	Announcement
C/O	This is C/O incoming call
TIE	This is TIE incoming call
DID	This is DID incoming call
Extension	This is internal call

- 4 The extension can converse with a calling subscriber after the announcement finishes.

### Service Conditions

- ✘✘ The VPC board should be installed in the CS1000 system.
- ✘✘ The VPC board can install only one board.
- ✘✘ The voice announcement should be recorded in the token of the VPC board. The relevant voice announcement should be recorded in token number 64, 65, 66 and 67.
- ✘✘ The announcement will be heard once.
- ✘✘ SLT and DKTU can hear the announcements.
- ✘✘ C/O means APTC line without the characteristics 'TIE Line'.
- ✘✘ The extension can hear the dial late announcement after [DP Total Digit Dial Lock] or [DTMF Total Digit Dial Lock] on 2.3 System Lock Parameter of OMS.

### Data Generation

- ✘✘ Assign whether using incoming call announcement (0001).  
[Option 38] in [16.12 Temporary Option]
- ✘✘ Assign the VPC board  
[2.2 System Local Board]
- ✘✘ Record the voice announcement in the token of VPC board.

On telephone: [Function Code \*732]  
VPC Board: Upload a wave file through SIO (Rate: 57600bps)

**Interactions**

☞☞ The voice announcement can be recorded in the token by the handset (SLT and DKTU). The procedure of the recording is as follows:

Record: \*732 + Token # + Announcement Recording + On Hook  
Verify: \*731 + Token # + Announcement Verify + On Hook  
Delete: \*733 + Token # + Announcement Delete + On Hook

*Note: Token # is made up by 3 digits (001 ~ 100)*

*You can hear beep sound (Token 62) to notify the start of record before you record the voice on a telephone if beep sound is already recorded.*

☞☞ Upload a token wave file via SIO

- 1 Connect SIO cable between VPC board and PC.
- 2 Execute an emulator program on PC. (Rate: 57600bps)
- 3 Every character is possible as Login ID.
- 4 Enter the command "call".
- 5 Enter the command "load".
- 6 upload a wave file (CCITT A-Law 8 kHz, 8bit) using z-modem.

☞☞ Refer to the Do Not Disturb (DND) for registration or cancellation of the relevant service.

## Meet-Me Conference

### General Description

This function enables an operator (attendant or service phone) register conference call for specific time and internal or external subscribers can access to join the conference on the time. Each group can be joined eight subscribers and two conference groups can be registered at the same period.

### Operation Sequence

☞ Registration of Meet-Me Conference

[Attendant]

ADM Key + "06" + Password(4 digit) + Date(DDMM) + Start Time(HHMM) + End Time(HHMM) + ENT key

- 1 An operator presses ADM key and dials "06".
- 2 When "PASSWORD XXXX" is displayed, dials 4 digit password. When the password is already registered, error message is displayed.
- 3 When the password is valid, dials date, start time, end time. The month of registered date should not be later one month than current date.
- 4 If the date and time is valid, presses ENT key.

[DTEL ATD]

MMC Registration Code + Password(4 digit) + Date(DDMM) + Start Time(HHMM) + End Time(HHMM) + HLD button

- 1 An operator dials MMC Registration Code and 4 digit password. When the password is already registered, the operator hears CGT.
- 2 When the password is valid, the operator dials date, start time, end time. The month of registered date should not be later one month than current date.
- 3 If the date is valid, presses HLD button.

☞ Cancellation of Meet-Me Conference

[ATD]

ADM Key + "07" + Password(4 digit) + ENT key

- 1 An operator presses ADM key and dial "07".
- 2 When "PASSWORD XXXX" is displayed, dials 4 digit password of the conference bridge group to cancel.
- 3 If the password is valid, presses ENT key.

[DTEL ATD]

MMC Cancellation Code + Password(4 digit) + HLD button

- 1 The operator dials the MMC Cancel Code.

- 2 When "PASSWORD XXXX" is displayed, dials 4 digit password.
- 3 If the password is valid, presses ENT button.

☞ ☞ Registration of PIN

[ATD]

ADM Key + "08" + Password(4 digit) + PIN(2 digit) + ENT key

- 1 An operator presses ADM key and dial "08".
- 2 When "PASSWORD XXXX" is displayed, dials 4 digit password of the conference bridge group to assign PIN.
- 3 When "CONF PIN : XX" is displayed, dials 2digit PIN.
- 4 If the PIN is valid, presses ENT key.

[DTEL ATD]

PIN Reg. Code + Password(4digit) + PIN(XX) + HLD button

- 1 The operator who registered the conference can only register the PINs.
- 2 The operator dials PIN Registration Code and MMC Password.
- 3 If the password exists, the operator dials PIN (2 digit).
- 4 If the PIN is valid, presses HLD button.

☞ ☞ Cancellation of PIN

[ATD]

ADM Key + "09" + Password(4 digit) + PIN(2 digit) + ENT key

- 1 An operator presses ADM key and dial "09".
- 2 When "PASSWORD XXXX" is displayed, dials 4 digit password of the conference bridge group to delete PIN.
- 3 When "CONF PIN : XX" is displayed, dials 2digit PIN.
- 4 If the PIN is valid, presses ENT key.

[DTEL ATD]

PIN Can. Code + Password(4digit) + PIN(XX) + HLD button

- 1 The operator dials PIN Cancellation Code and MMC Password.
- 2 If the password exists, the operator dials PIN (2 digit).
- 3 If PIN is valid, presses HLD button.

☞ ☞ Self entry into the conference

[Internal Extension]

- 1 Internal users can do self-entry into the bridge by dialing the MMC Access Code.
- 2 If the conference circuit is available, the user hears alert tone and dials Password and PIN.
- 3 If the password is registered, the user joins to the conference.

- 4 If the user is a first member, he is given a waiting tone.
- 5 If other member is joined, the waiting tone is stopped and speech path is made with the first member.
- 6 When the user access to the bridge, he is switched to the conference.

[External User]

- 1 External users can do self-entry into the bridge by dialing the MMC Access Number.
- 2 If the conference circuit is available, the user hears alert tone and dials Password and PIN.
- 3 If the password is registered, the user joins to the conference.
- 4 If the user is a first member, he is given a waiting tone.
- 5 If other member is joined, the waiting tone is stopped and speech path is made with the first member.
- 6 When the user access to the bridge, he is switched to the conference.

☒☒ Entry with help of operator

[ATD]

- 1 An operator is in conversation with a user.
- 2 The operator dials MMC Access Number and if conference circuit is available, he shall dial password and PIN.
- 3 If password and PIN is valid, the operator presses CNT key.
- 4 If the user is a first member, he is given a waiting tone.
- 5 If other member is joined, the waiting tone is stopped and speech path is made with the first member.

[DTEL ATD]

- 1 An operator makes a hook-flash in conversation.
- 2 When he hears dial tone, press MMC Access Code.
- 3 The operator dials password of the conference group and PIN.
- 4 If the password and PIN is valid, the operator hears alert tone and the split user is joined to the conference.

☒☒ Entry with help of member in conference

- 1 When a member in conference tries hook-flash, he gets dial tone and switched out of conference.
- 2 He dials PIN.
- 3 If it's valid, he can dial internal or external subscriber to join the conference.
- 4 When the called is answered, both of them are switched to the conference.

- 5 In step 4 the member tries hook-flash, he will be switched to the conference and the called is release.

☞☞ Exit from Conference

- 1 A member may permanently exit from conference by just going on-hook.
- 2 The member will be released and switched out from the conference. The PIN is cancelled automatically.
- 3 In case of CO the other member will hears BUSY tone and the line is release by "Forced Drop".

☞☞ Forced Drop by Master

- 1 A member defined to master is able to forcibly drop a member on CO/Tie.
- 2 To use the Forced Drop, the master presses flexible button defined to Drop key and dials C/O PIN to release.
- 3 The trunk associated with the PIN will be released and the PIN is cancelled.

☞☞ Define Forced Drop Button

[PROGRAM] Key + [Flexible Button] + "3"(Feature Code) + "16"(Feature Type)

**Service Conditions**

- ☞☞ ATD or DKTU ATD could be the operator to register or cancel the conference.
- ☞☞ The operator who registered the conference group only could cancel the registration.
- ☞☞ The operator could not be a member in conference.
- ☞☞ To access to the conference from CO/Tie PIN should be defined by the operator. If not assigned any PIN for the Conference Bridge, it is automatically assigned.
- ☞☞ When access to the conference from extension, PIN is defined to "00".
- ☞☞ The Conference Bridge can handle 8 users in each group.
- ☞☞ The registration of Conference Bridge in the same period is restricted to 2 groups.
- ☞☞ The registration month should be same with current date or 1 month later. It's not calculated in terms of day.
- ☞☞ The user could access to the conference group before 10 minutes of start time.
- ☞☞ If conference end time is passed and all the users are out of conference, the conference group is cancelled.

**Data Generation**

- ☞☞ To assign Meet-Me-Conference registration code

[2.1 System Numbering Plan] – Meet-Me-Conference Reg.

☞☞ To assign Meet-Me-Conference cancellation code

[2.1 System Numbering Plan] – Meet-Me-Conference Can.

☞☞ To assign Meet-Me-Conference access code

[2.1 System Numbering Plan] – Meet-Me-Conference Acc.

☞☞ To assign Meet-Me-Conference PIN registration code

[2.1 System Numbering Plan] – Meet-Me-Conference PIN Reg.

☞☞ To assign Meet-Me-Conference PIN cancellation code

[2.1 System Numbering Plan] – Meet-Me-Conference PIN Can.

☞☞ To assign Forced Drop Button Data

[2.1 System Numbering Plan] – Meet-Me-Conference Reg.

### **Interactions**

## Call Park - System

### General Description

This function holds other extension/outside subscriber that is in conversation with him or her, within the system and then lets this held extension/outside subscriber to call with other extension.

### Operation Sequence

#### ☒☒ System call park registration on SLT

- 1 An extension presses "Hook-Flash" during the call.
- 2 The extension presses the system call park code (Default: #7).
- 3 The extension hears the service set tone when if the function is successfully registered.
- 4 The extension hears the hold tone.

#### ☒☒ System call park registration on DKTU

- 1 An extension presses "TRANS"(Transfer) button during the call.
- 2 The extension presses the system call park code (Default: #7).
- 3 The extension hears the service set tone when if the function is successfully registered. Then, the following message is displayed on the LCD.

<b>LINE HOLDING</b>
<b>LINE 10101            09:00am</b>

- 4 When the function is successfully registered, the extension hears the hold tone.

#### ☒☒ System call park answer on SLT

- 1 Hooks off the handset.
- 2 Press the system call park answer code (Default: #7).
- 3 Press the system call parked extension number.
- 4 A call is performed with the parked extension/outside subscriber.

#### ☒☒ System call park on DKTU

- 1 Press the system call park answer code (Default: #7).
- 2 Press the system call parked extension number.
- 3 A call is performed with the parked extension/outside subscriber.

#### ☒☒ System call park registration on SLT (Enhanced)

- 1 An extension presses "Hook-Flash" during the call.
- 2 The extension presses the system call park code (Default: #7).
- 3 Dial park number (00 ~ 99).
- 4 The extension hears the service set tone when if the function is

successfully registered.

☞☞ System call park registration on DKTU (Enhanced)

- 1 An extension presses "TRANS"(Transfer) button during the call.
- 2 The extension presses the system call park code (Default: #7). After that the following message is displayed on the LCD.

**ENTER CALL PARK NO :**  
**ENTER A STATION NUMBER**

- 3 Dial park number (00 ~ 99).
- 4 When the function is successfully registered, the extension hears the hold tone. After that the following message is displayed on the LCD.

**ENTER CALL PARK NO : XX**  
**\*\*\* COMPLETE \*\*\***

☞☞ System call park answer on SLT (Enhanced)

- 1 Hooks off the handset.
- 2 Press the system call park answer code (Default: #7).
- 3 Dial park number (00 ~ 99).
- 4 A call is performed with the parked extension/outside subscriber.

☞☞ System call park on DKTU (Enhanced)

- 1 Press the system call park answer code (Default: #7).
- 2 Dial park number (00 ~ 99).
- 3 A call is performed with the parked extension/outside subscriber.

☞☞ System call park registration on DKTU using a flexible button (Enhanced)

- 1 An extension presses "TRANS"(Transfer) button during the call.
- 2 Press the flexible button assigning a park number (00 ~ 99)
- 3 When the function is successfully registered, the extension hears the hold tone. After that the following message is displayed on the LCD.
- 4 All flexible buttons assigning the parked number turn on.

☞☞ System call park on DKTU using a flexible button (Enhanced)

- 1 Press the flexible button assigning a park number (00 ~ 99)
- 2 A call is performed with the parked extension/outside subscriber.

### Service Conditions

- ☞☞ Up to 100 extensions can use this function in the system.
- ☞☞ It is not possible to perform the system call park for the ATD.
- ☞☞ If the parked extension is released, the system call park will be cancelled.
- ☞☞ If the parking extension does not call again the parked extension, the recall tone will be sent out to the parking extension. In this case, however, the call parking

extension should be idle. If the parking extension is not idle, the parked extension should be parked continuously.

✎✎ You cannot use enhanced call park and original one at the same time.

✎✎ A park number is assigned to a flexible button on enhanced call park.

### **Data Generation**

✎✎ Assign enhanced call park

[2.6 System Feature Option ? (System) Enhanced Call Park Use?]

✎✎ Change the service set tone.

[2.4 System Tone Parameter ? EXT Camp-On Holding Tone]

The parked extension will hear this tone.

### **Interactions**

## Outgoing Call Duration Restriction (O/G CDR)

### General Description

If an extension is performing the outgoing trunk call or TANDEM case (transit call), the function restricts the call duration (forced release) or informs the call duration with warning tone.

### Operation Sequence

#### Service Conditions

- ✂✂ The allowed call duration, warning tone sending and applied extension class can be assigned in option.
- ✂✂ The warning tone and call duration restriction can separately operate by routes and outgoing call types (ISD, DDD, TIE, Local).

[Determination of outgoing call type]

<b>ISD Call</b>	If the maximum length from the first outgoing digit is matched with the digit assigned in the related menu.
<b>DDD Call</b>	If the maximum length from the first outgoing digit is matched with the digit assigned in the related menu and the code is different from the area code (own area code) of the site where the system is installed.
<b>TIE Call</b>	If the TIE line is assigned in the related menu
<b>Local Call</b>	All calls except for ISD, DDD, TIE call

- ✂✂ On enhanced method, call duration is restricted according to Prefix regardless of the type of outgoing call.
- ✂✂ On enhanced method, it enables to assign prefix up to 50 to a route.
- ✂✂ On enhanced method, it enables to assign deny class to extensions and trunks.

### Data Generation

- ✂✂ Assign Available call duration allowed without restriction  
[4.11 Trunk O/G Call Duration Restriction Allow Time]
- ✂✂ Assign call restriction mode  
[4.11 Trunk O/G Call Duration Restriction Process Type]
- ✂✂ Assign warning tone per cycle  
[4.11 Trunk O/G Call Duration Restriction Alarm Periodic]
- ✂✂ Assign digit indicating the international (ISD), toll (DDD) or Local outgoing call  
[1.1 system Setup Information  
ISD Call Prefix, DDD Call Prefix, Own Area Code]

✍✍ Assign trunk to be used for leased line

[4.1 Trunk Information – Trunk Option Tie Line]

✍✍ Assign Enhanced CDR

[4.8 Trunk Route Base All Option – Enhanced CDR Use?]

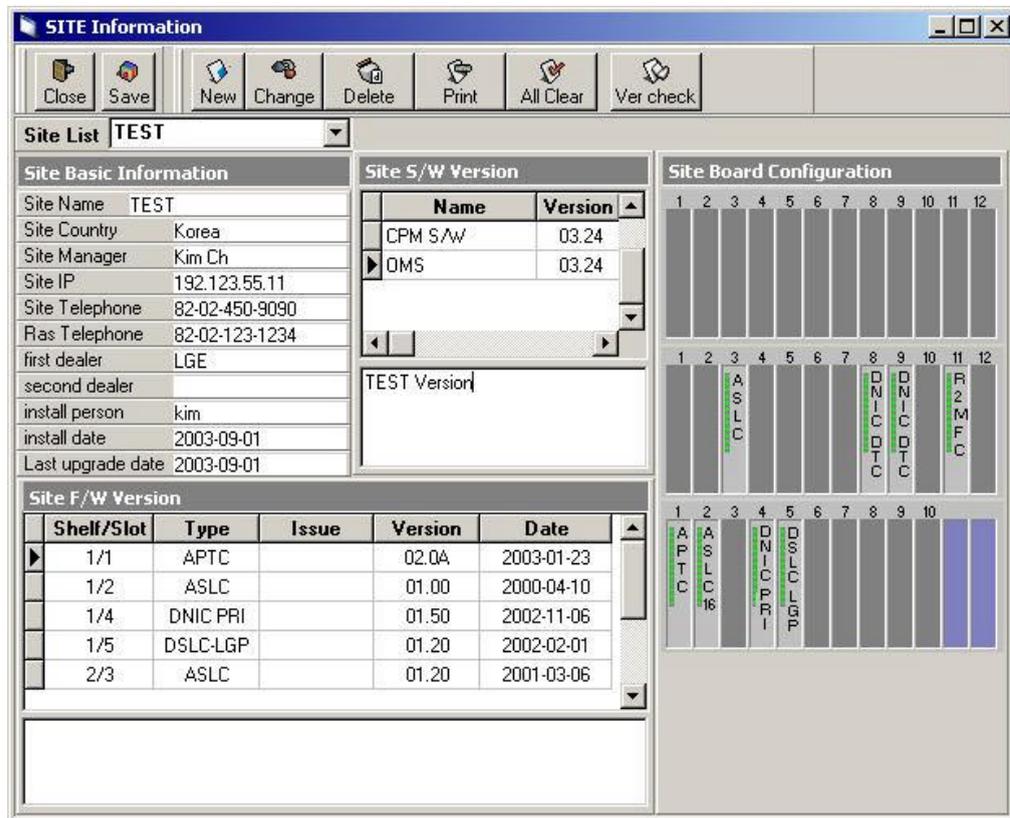
✍✍ Assign Prefix used on Enhanced CDR

[4.8 Trunk O/G Call Duration Restriction – Enhanced Call Duration Restriction]

### **Interactions**

### 3.6 Site Information

This chapter explains how to use Site Management. This function allows managing the site information, system information, F/W information. This is useful to check the F/W version compatible with system version.



[Figure 1.1 Configuration Management]

#### Site information

##### ✎ Add of site information

- 1) Click the **New**.
- 2) Enter all the data in dialog box and click **OK** or press Enter key.
- 3) When pop up dialog box "Get current system information?", click **Yes**.
- 4) If it is connected to the system, site F/W version information and site board configuration will be displayed.

##### ✎ Change of site information

- 1) Select site to change information in site list.
- 2) Change the site information.
- 3) Click **Change**.

✎ Delete of site information

- 1) Select site to delete in site list.
- 2) Click **Delete**.

✎ All clear

- 1) To delete all the site information.
- 2) Click **All Clear**.

✎ Comparison of S/W and F/W version

- 1) To compare compatibility between S/W and F/W.
- 2) Click **Ver check**.
- 3) When popup dialog box, select target version to compare.
- 4) Click **Check**.
- 5) The result of comparison will be displayed.

✎ Save of site information

- 1) To save all the site information.
- 2) Click **Save**

### **S/W information**

✎ Add of S/W version

- 1) Press left button of mouse on the site S/W version menu.
- 2) S/W Add, S/W Delete, S/W Change will be displayed.
- 3) Select S/W Add.
- 4) S/W version input box will be displayed.
- 5) Double click the S/W name in left window and then the selected name will be filled in name field.
- 6) Input version number in the field.
- 7) You can enter any comment in the field.
- 8) Click **OK**.

✎ Delete of S/W version

- 1) Press left button of mouse on the site S/W version menu.
- 2) S/W Add, S/W Delete, S/W Change will be displayed.
- 3) Select S/W Delete.
- 4) Confirmation window will be popped up.
- 5) Click **OK**.

 **Change of S/W version**

- 1) Press left button of mouse on the site S/W version menu.
- 2) S/W Add, S/W Delete, S/W Change will be displayed.
- 3) Select S/W Change.
- 4) S/W version input box will be displayed.
- 5) Input version number in the field.
- 6) You can enter any comment in the field.
- 7) Click **OK**.

**F/W information**

 **Add of F/W version**

- 1) Press left button of mouse on the site S/W version menu.
- 2) F/W Add, F/W Delete, F/W Change will be displayed.
- 3) Select F/W Add.
- 4) Select Shelf/Slot to add.
- 5) Double click the S/W name in left window and then the selected name will be filled in name field.
- 6) Input version number in the field.
- 7) You can enter any comment in the field.
- 8) Click **OK**.

 **Delete of F/W version**

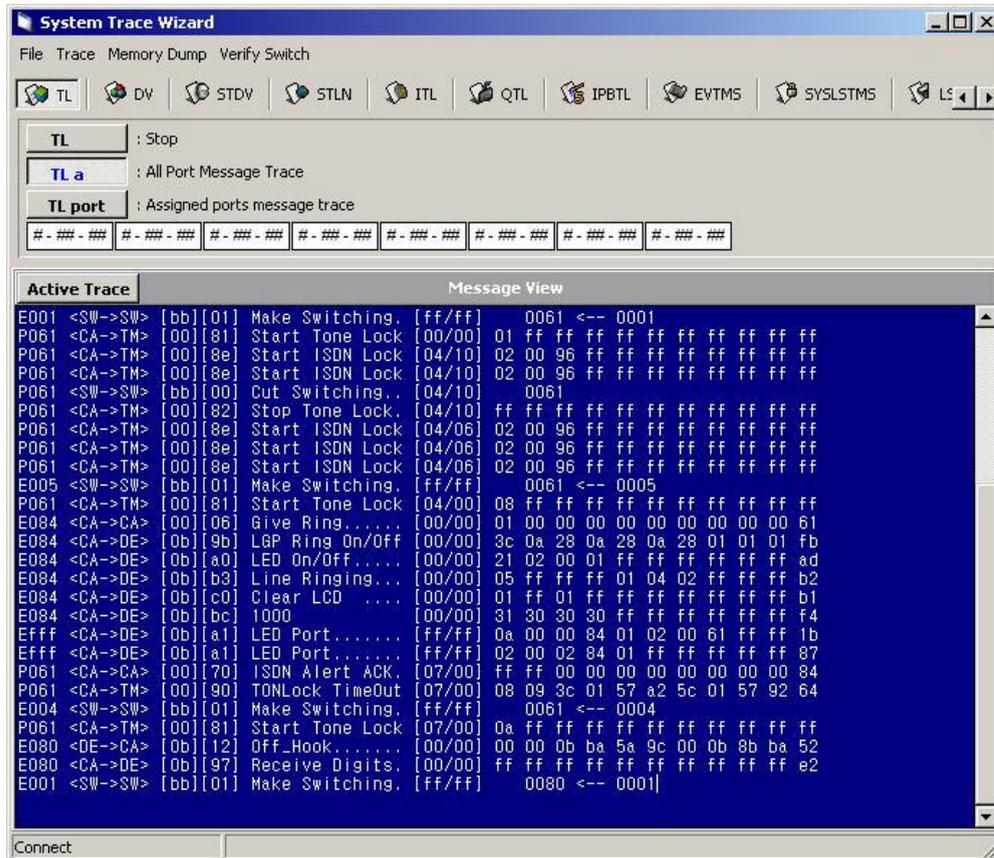
- 1) Press left button of mouse on the site S/W version menu.
- 2) F/W Add, F/W Delete, F/W Change will be displayed.
- 3) Select F/W Delete.
- 4) Confirmation window will be popped up.
- 5) Click **OK**.

 **Change of F/W version**

- 1) Press left button of mouse on the site S/W version menu.
- 2) F/W Add, F/W Delete, F/W Change will be displayed.
- 3) Select F/W Change.
- 4) F/W version input box will be displayed.
- 5) Input data to change.
- 6) Click **OK**.

### 3.7 System Trace Wizard

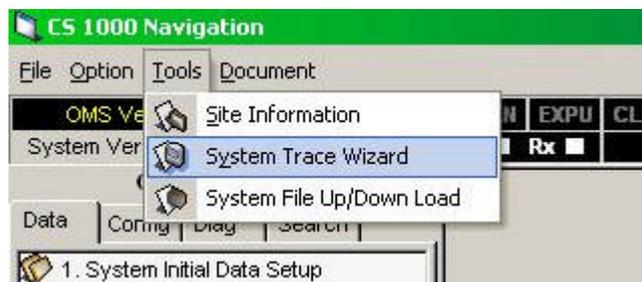
This chapter explains how to use System Trace Wizard. This function allows enable and disable each trace function and display the trace data.



#### Connection of System

##### ✎ Connection by SIO

- 1) Select the System Trace Wizard in OMS Main Menu.



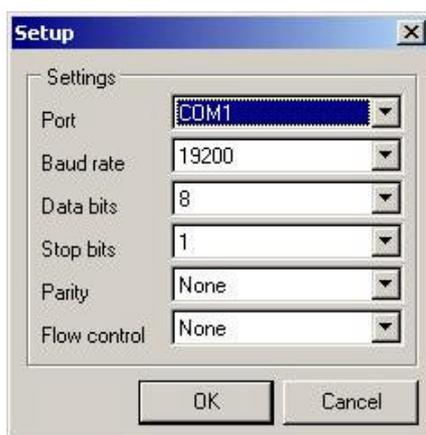
- 2) Select connection type to SIO.



- 3) When you click **OK**, the menu below will be displayed.



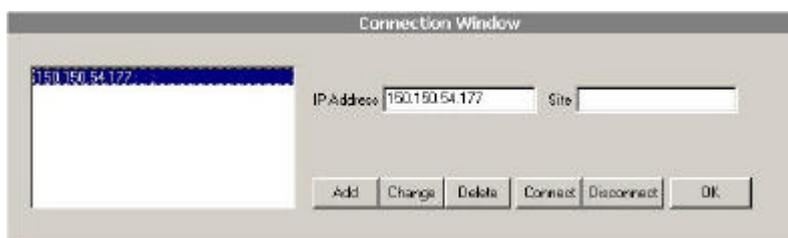
- 4) When you click **Setup**, the menu below will be displayed.



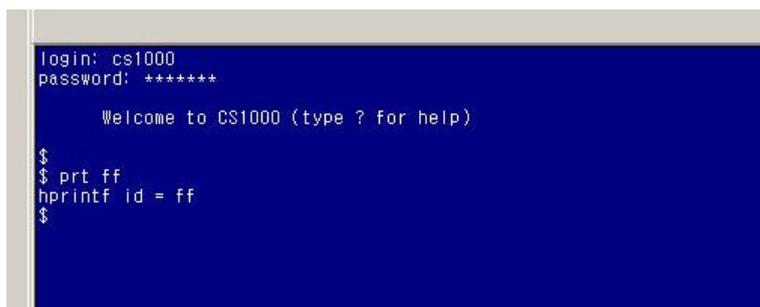
Select as you see above and click **OK**.

### ✎ Connection by Telnet

- 1) Select the System Trace Wizard in OMS Main Menu.
- 2) Select connection type to telnet.
- 3) When you click **OK**, the menu below will be displayed.



- 4) Enter system IP to connect.
- 5) Enter site name to connect.
- 6) When you click **ADD**, the site information will be added in left window.
- 7) When you select site name in left window, it is possible to edit and delete the information.
- 8) Click **Connect**.
- 9) When it is connected to the system, the below message will be displayed.



```
login: cs1000
password: *****

Welcome to CS1000 (type ? for help)

$
$ prt ff
$ hprintf id = ff
$
```

- 10) Click **OK**.

### **Text Capture**

 To start text capture

- 1) Select Capture Text START in File Menu.
- 2) Enter file name to save.

 To start text capture

- 1) Select Capture Text STOP in File Menu.

### **How to use trace**

 TL

This command enables the system trace of all port or specific port.

- 1) **TL** button
  - To make system trace off.
- 2) **TL a** button
  - To make system trace on of all port.
- 3) **TL port** button
  - To make system trace on of defined port.
  - Before enable this trace, the shelf, slot, port should be defined.
  - Eight ports can be defined to enable the trace.

 DV

This command enables the system trace of defined device type.

- 1)  button
  - To make system trace off.
- 2)  button
  - To make system trace on of defined device ID.
  - Before enable this trace, the device ID should be defined.
  - Eight device IDs can be defined to enable the trace.

#### STDV

This command enables the line signal and address signal of defined device type.

- 1)  button
  - To make system trace off.
- 2)  button
  - To make trace on of defined device ID.
  - Before enable this trace, the device ID should be defined.

#### STLN

This command enables the line signal and address signal of defined port.

- 1)  button
  - To make system trace off.
- 2)  button
  - To make system trace on of defined port.
  - Before enable this trace, the shelf, slot, port should be defined.

#### ITL

This command enables ISDN L3 trace.

- 1)  button
  - To make ISDN L3 trace off.
- 2)  button
  - To make ISDN L3 trace on.
- 3)  button
  - To make ISDN L3 trace on of defined port.
  - Before enable this trace, the shelf, slot, port should be defined.
  - Eight ports can be defined to enable the trace.
- 4) ITL Filter Option
  - You can filter the trace data by calling/called number.

#### QTL

This command enables QSIG L3 trace.

- 1)  button

- To make QSIG L3 trace off.
- 2)  button
  - To make QSIG L3 trace on.
- 3)  button
  - To make QSIG L3 trace on of defined port.
  - Before enable this trace, the shelf, slot, port should be defined.
  - Eight ports can be defined to enable the trace.
- 4) QTL Filter Option
  - You can filter the trace data by calling/called number.

#### IPBTL

This command enables PB message trace of ISDN.

- 1)  button
  - To make ISDN PB trace off.
- 2)  button
  - To make ISDN PB trace on.

#### EVTMS

This command displays the latest 32 event messages of each port.

- 1)  button
  - To display the latest 32 event messages of defined port.
  - Before command this trace, the shelf, slot, port should be defined.

#### SYSLSTMS

This command enables to save the last event message for debugging system restart.

When happens system restart by any reason, enable to save the last event message by clicking  button. If happens the problem, display the last event message by clicking  button.

If system is restarted, the save option is disabled. So to continue saving last event message, the save option should be defined again.

- 1)  button
  - To enable saving the last event message.
- 2)  button
  - To disable saving the last event message.
- 3)  button
  - To display the last event message.

 **LSTMSG**

This command displays the latest 32 event messages for debugging system watchdog.

- 1)  button
  - To display the latest 32 event messages of each port.

 **LIN/LIS**

This command displays the line status of extension or trunk port.

- 1)  button
  - To display the line status of the port.
  - Before command this trace, the shelf, slot, port should be defined.
- 2)  button
  - To display the line status of the 16 ports from the defined port.
  - Before command this trace, the shelf, slot, port should be defined.

 **ILIN/ILIS**

This command displays the ISDN L3 status.

- 1)  button
  - To display the ISDN L3 status of the port.
  - Before command this trace, the shelf, slot, port should be defined.
- 2)  button
  - To display the ISDN L3 status of the 16 ports from the defined port.
  - Before command this trace, the shelf, slot, port should be defined.

 **QLIN/QLIS**

This command displays the QSIG L3 status.

- 1)  button
  - To display the QSIG L3 status of the port.
  - Before command this trace, the shelf, slot, port should be defined.
- 2)  button
  - To display the QSIG L3 status of the 16 ports from the defined port.
  - Before command this trace, the shelf, slot, port should be defined.

 **DGS**

This command displays the digit store table for monitoring dial digit.

- 1)  button
  - To display dial digit information of the port.
  - Before command this trace, the shelf, slot, port should be defined.

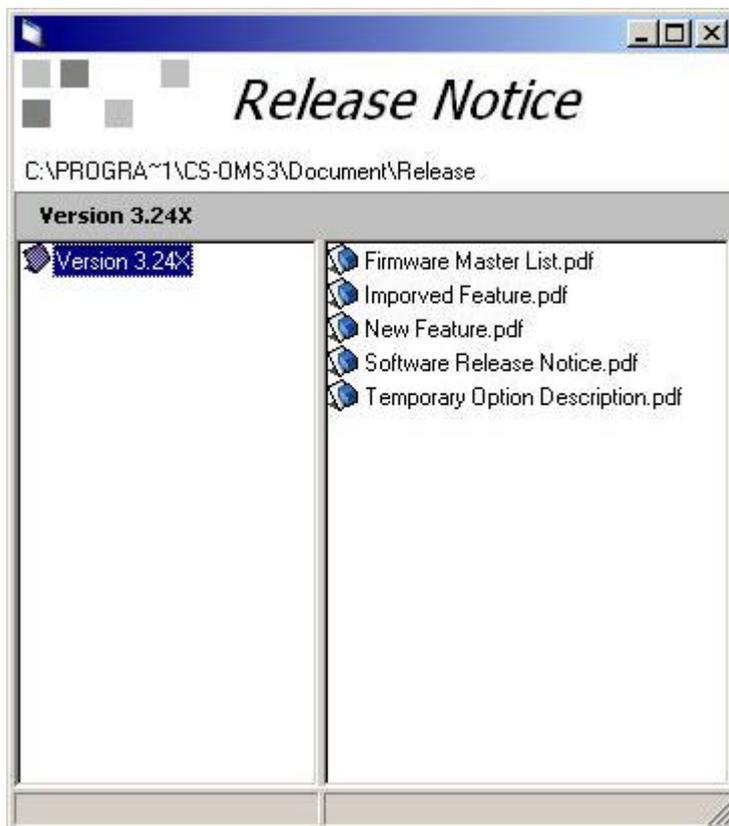
✎ VGS

This command displays the switching status of the system.

- 1)  button  
- To display the switching status of all the ports.
- 2)  button  
- To display the switching status from port# 0x00 to port# 0xff.
- 3)  button  
- To display the switching status from port# 0x100 to port# 0x1ff.
- 4)  button  
- To display the switching status from port# 0x200 to port# 0x2ff.

### 3.9 Release Notice

This chapter explains how to use Release Notice. In this menu you can get the information what's new in this version. The information includes latest firmware version, new features and improved features in each version.



✎ To use release document

- 1) Select Release Notice in Main Menu.



- 2) Select the version name to review in left window.
- 3) Double click the document to check in right menu.