**Digital Communication Standard -
Ademco ® Contact ID Protocol -
for Alarm System Communications**

Technical

Bulletin M209003

MEGAsys

Digital Communication Standard –
Ademco ® Contact ID Protocol
For MEGAsys
Alarm Remote Event Reporting
Technical Notes
TN-20900301
v1.0

For MEGAsys V15.1 or above (English Version)

2009/05/15
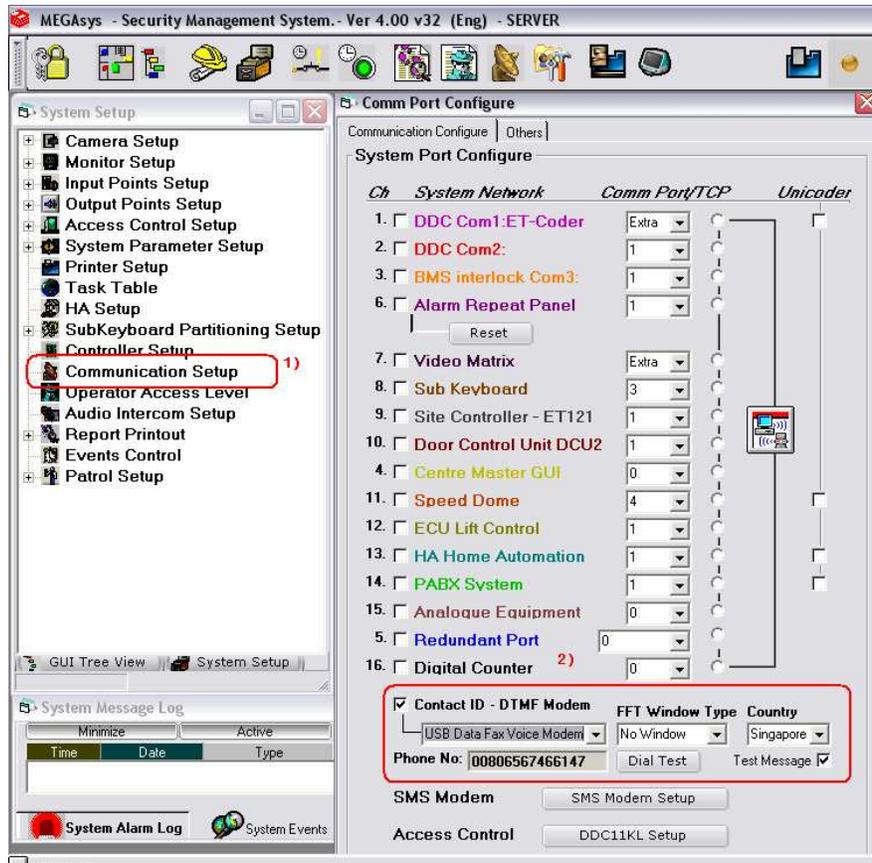Evertech Electronics Ltd.

This Standard communications protocol that was developed and is wholly owned by ADEMOCO Group. It is published by the Security Industry Association (SIA) as a de facto security industry standard.

MEGAsys can communication direct with Ademco CMS alarm center for alarm reports, need voice modem connect between MEGAsys server and direct telephone line, MEGAsys server will dial up with Contact ID by DTMF tone for alarm report operation with Ademco standard Contact ID protocol.

Standard voice modem require for this connetion:
      Ex: LEOLINK Conexant USB 2.0 56K Modem (http://leolink.com.tw)

A) Modem Setup

1) **Select system communication setup**
2) **Click "Contact ID – DTMF Modem" – please refer the modem setup manual for details.**
   Select your Modem that you have installed in the system.
   No window for FFT and select your country (detecting the busy tone)
   Type the Ademco CMS center phone number.
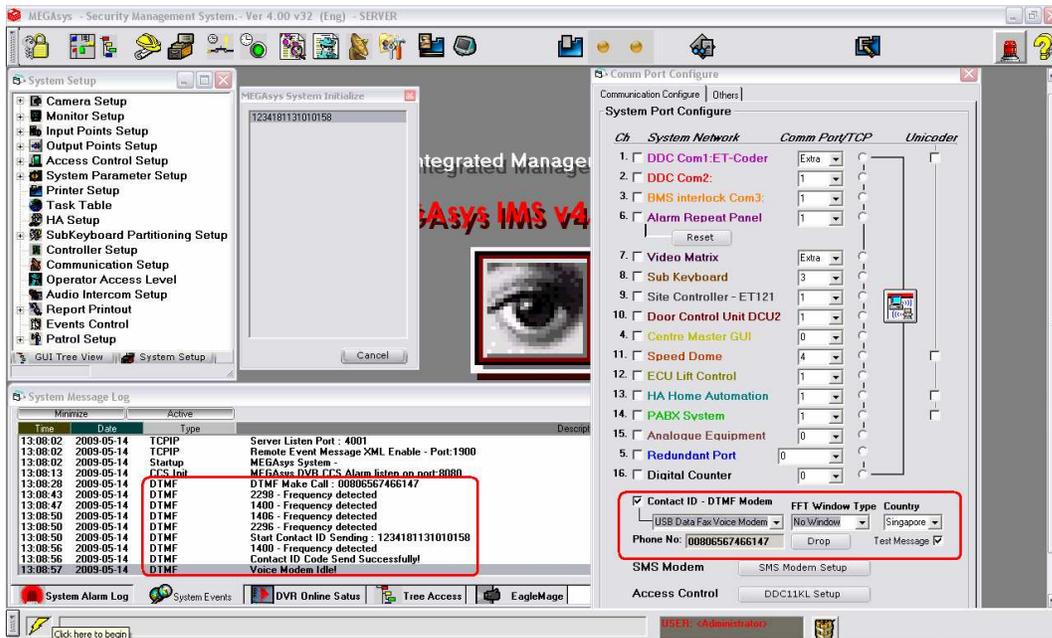   ● **After configure the modem, please *restart* the MEGAsys again to activate the function.**

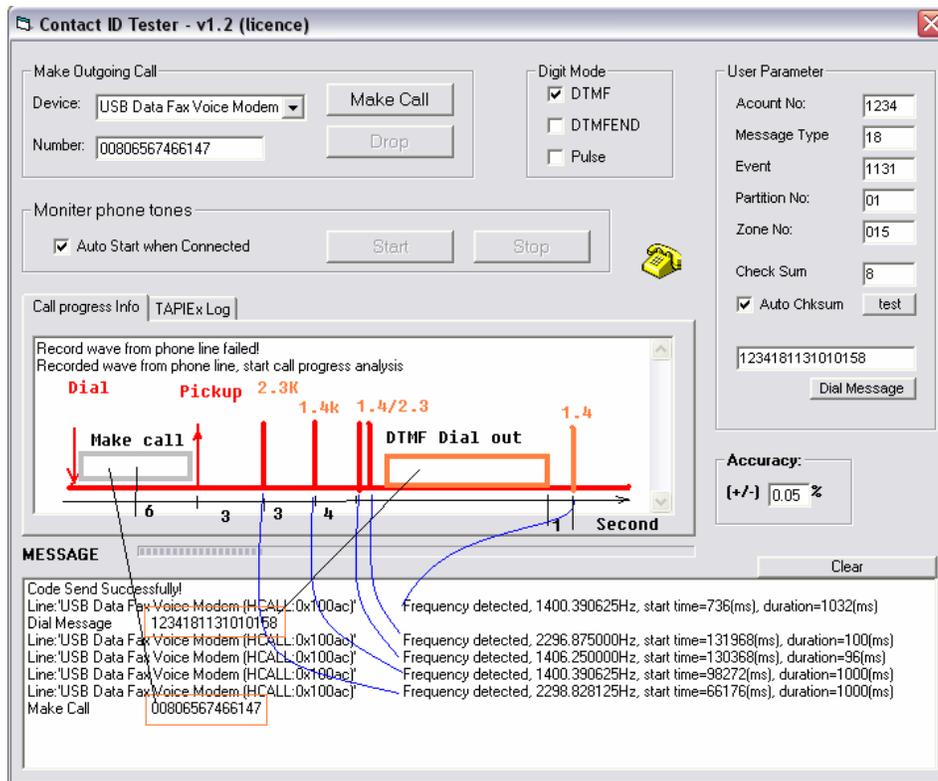   **Select "Test Message" will display all detected tone from CMS and modem dial up status.**
   "Dial Test" button for modem test, DTMF "1234 18 1131 01 015 8" shall be sent for testing
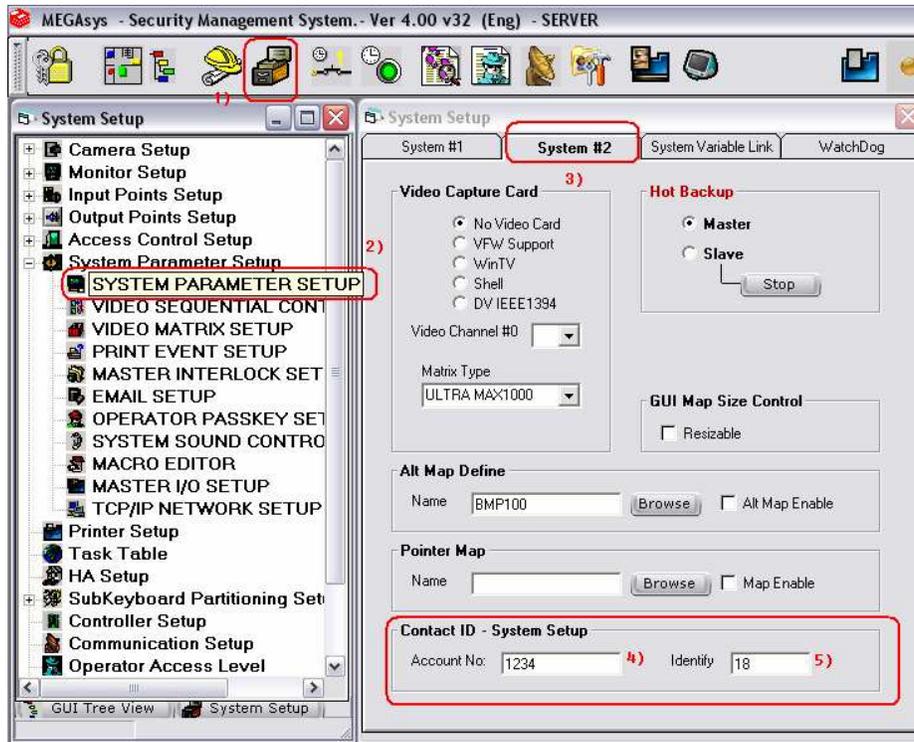   **"Drop" buttons for cancel this test operation**

Dial up log message will show in the "System Message Log" like above.
If any dial up operation is completed, "Contact ID Code Successfully!" will show.
It dial up connecting, you will hear 2.3kHz(2298Hz +/-0.3%) handshake tone
when dial up off hook by the CMS within 1.5-3 second, after the tone within 3
seconds 1.4KHz(1400Hz) tone will sound up, wait for the kiss off tone (1.4kHz
and 2.3kHz) is detected, MEGAsys will send out the DTMF alarm data right
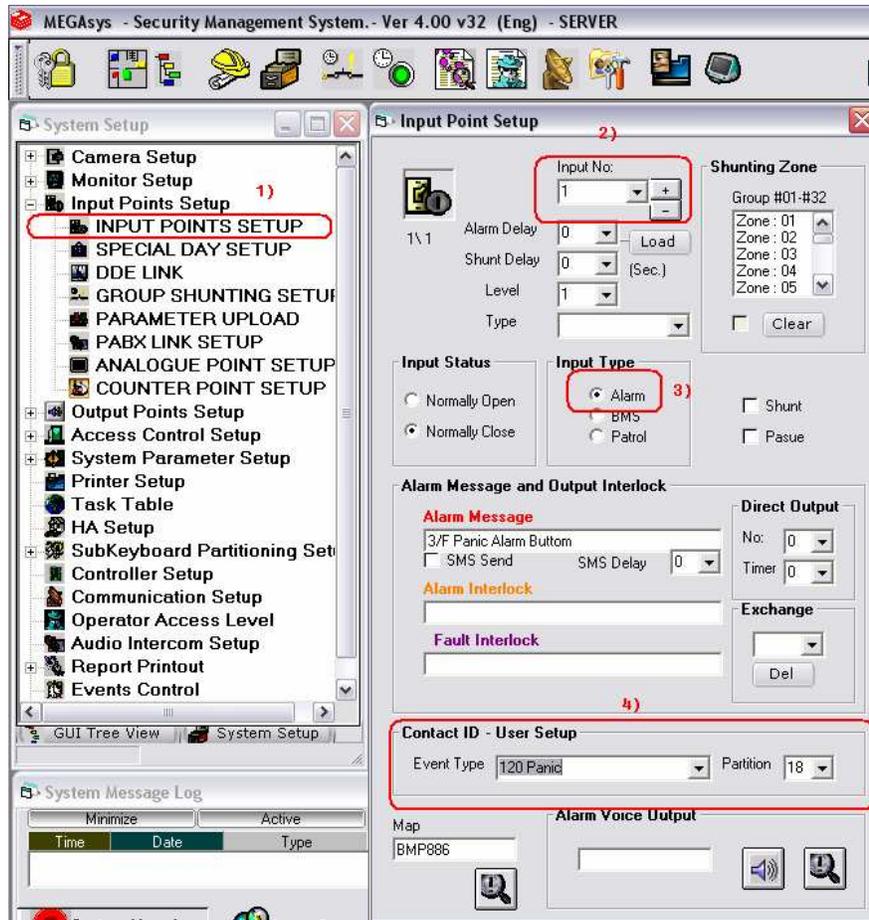**after 400 msec. (Refer to the follows)**

DTMF - TESTER

B) Setup the Account No for MEGAsys user.

MEGAsys need setup a unique account no for the system as a Ademco CMS user (please refer to the CMS operator)

> **1) 2) 3) Select "System Setup" for insert account number "4) and the "Identify" number 5)**

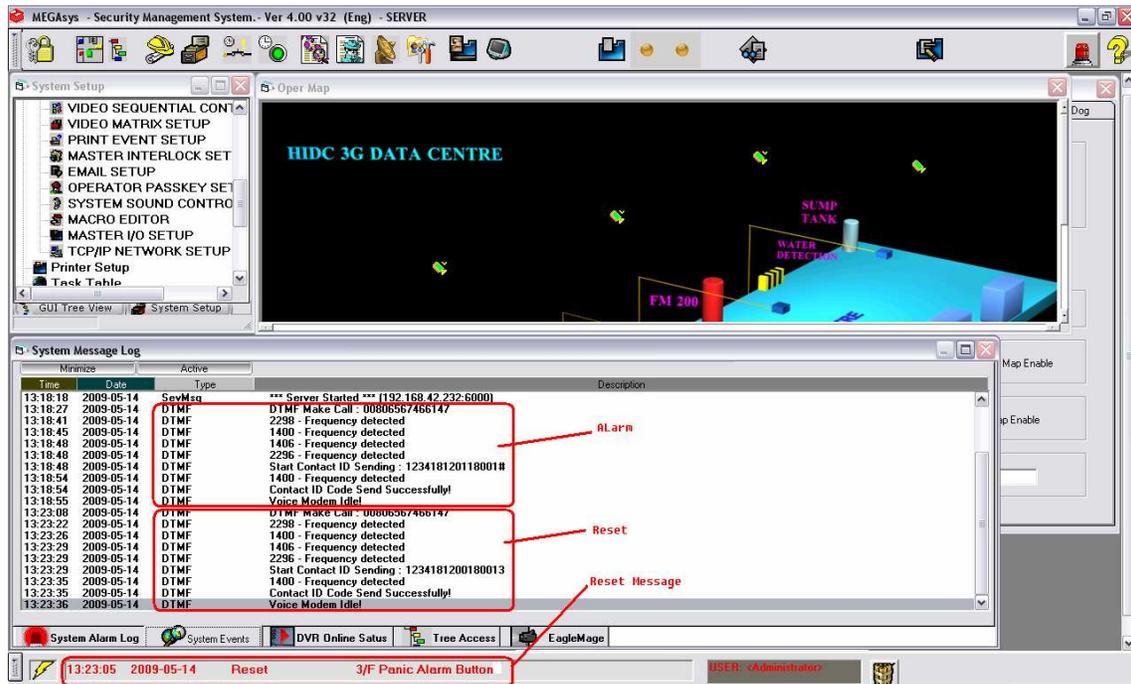**C) Setup the alarm zone details:**

4) Setup "Event type " and "Partition" for each alarm zone.
If this alarm zone 0001 "2)" in MEGAsys is link with "3/F Panic Button",
Contact ID select "120 Panic" for this identify.

"Partition" set to 0 disable Contact ID function for this alarm zone
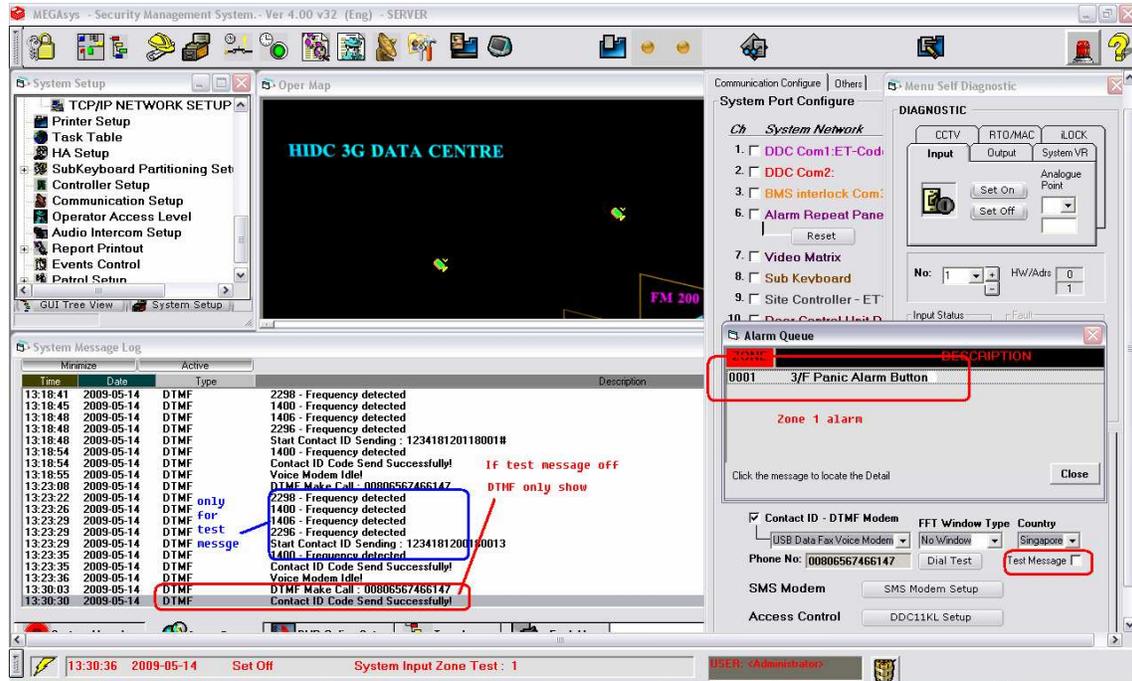
D) Test the alarm function

Alarm and Reset reporting

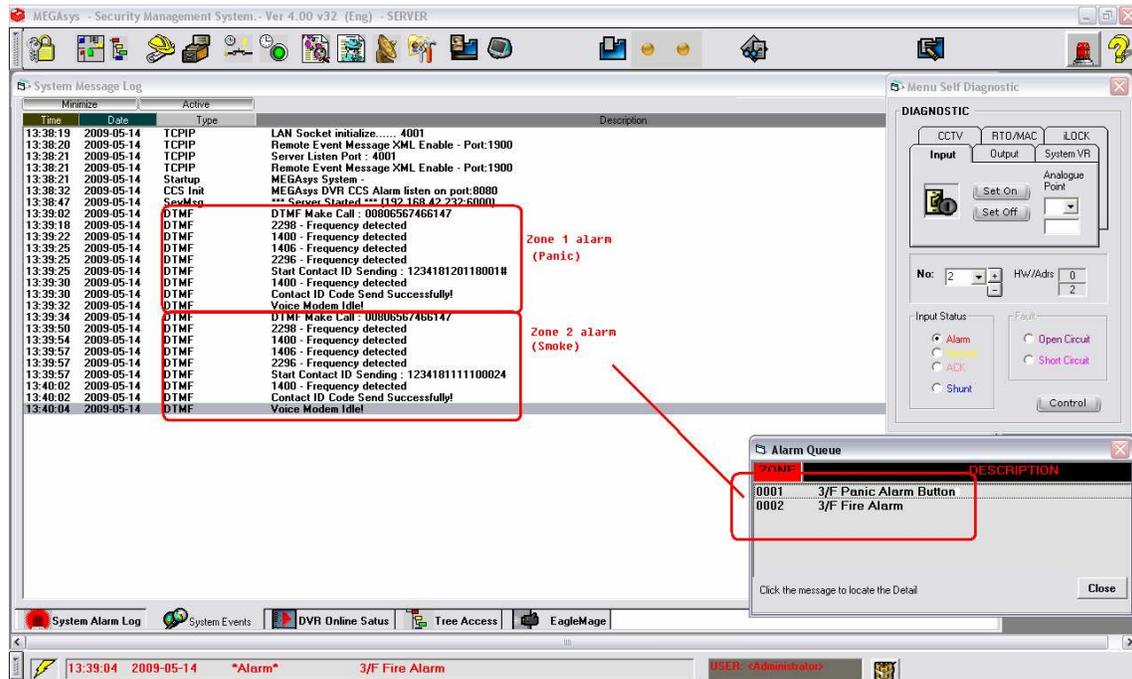If zone 1 is in alarm, system will dial up to CMS, a dial up sound and message will display as above.
Reset message will send also when reset alarm is completed.

E) Disable the DTMF detection test message

F) Alarm Queue

Alarm reporting will send one by one, one message send at a time.

If CMS phone line is busy, system will try 5 times in every 5 seconds and abandon after that.