



ARC-10

GSM Controller

GSM Access Control

Version: 1.0 – July 2014

Introduction

More and more industrial and trading companies are upgrading their security systems to include automated gates. Gate access control of parking areas, loading and unloading zones are common targets. ARC-10 GSM Controller, combined with a dedicated PC application for user management, can provide a secure entrance access control to a company's facilities.

Requirements

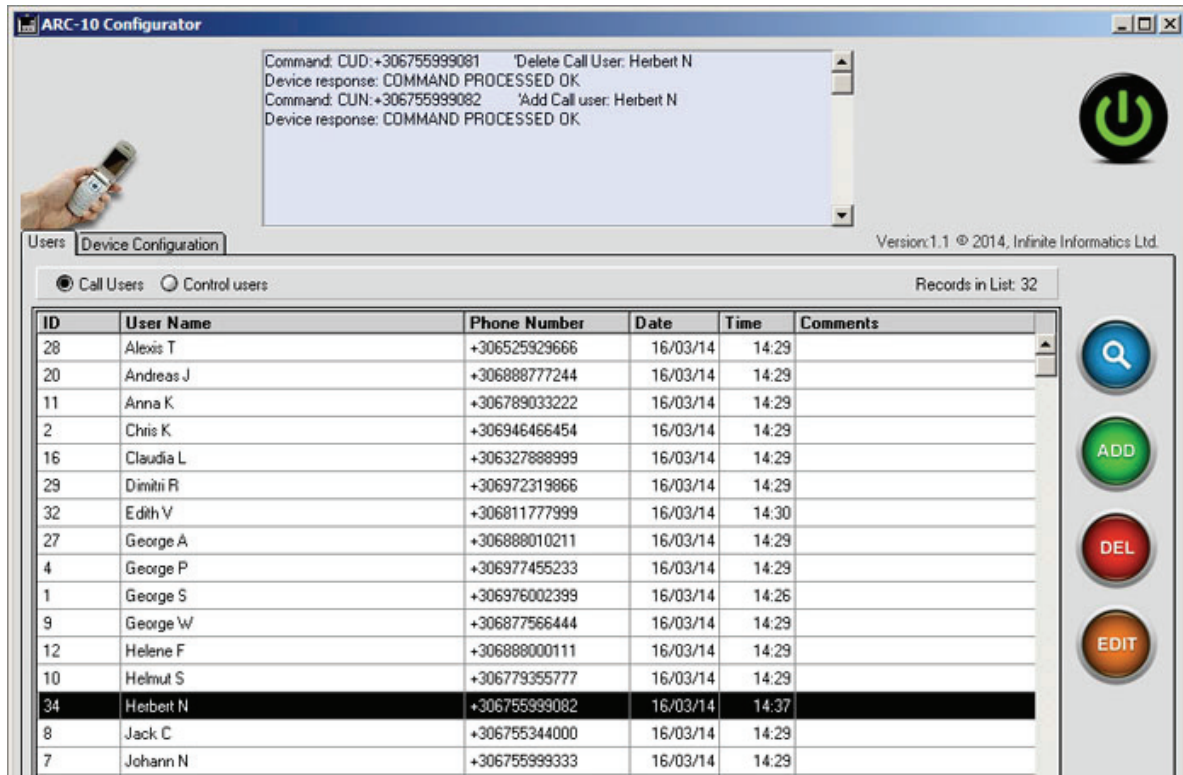
- Low cost user identification without special badges or dedicated remote controls.
- Unattended gate accessibility.
- Convenient user management.
- Remote control capability of the gate accessibility.
- Tampering alarm via SMS.

Proposal



Infinite ARC-10 GSM controller provides a secure entrance access by receiving a toll free phone call from a registered user. A special contact, connected to an ARC-10 digital input, can initiate an SMS alert to security personnel, in case of a tamper attempt. Up to 10 power users can be qualified to control (enable or disable) the gate accessibility via SMS and receive alerts from the unit.

The ARC-10 Configurator application can be used to manage a user database and synchronize it with the ARC-10 memory. The PC application communicates with the GSM controller via an occasional or a fixed serial connection. A laptop can be used for occasional connections. RS232 to RS-485 converters can be applied to establish a fixed serial connection from a distant point.



Command: CUD:+306755999081 Delete Call User: Herbert N
Device response: COMMAND PROCESSED OK
Command: CUN:+306755999082 Add Call user: Herbert N
Device response: COMMAND PROCESSED OK

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Records in List: 32

ID	User Name	Phone Number	Date	Time	Comments
28	Alexis T	+306525929666	16/03/14	14:29	
20	Andreas J	+306888777244	16/03/14	14:29	
11	Anna K	+306789033222	16/03/14	14:29	
2	Chris K	+306946466454	16/03/14	14:29	
16	Claudia L	+306327888999	16/03/14	14:29	
29	Dimitri R	+306972319866	16/03/14	14:29	
32	Edith V	+306811777999	16/03/14	14:30	
27	George A	+306888010211	16/03/14	14:29	
4	George P	+306977455233	16/03/14	14:29	
1	George S	+306976002399	16/03/14	14:26	
9	George W	+306877566444	16/03/14	14:29	
12	Helene F	+306888000111	16/03/14	14:29	
10	Helmut S	+306779355777	16/03/14	14:29	
34	Herbert N	+306755999082	16/03/14	14:37	
8	Jack C	+306755344000	16/03/14	14:29	
7	Johann N	+306755999333	16/03/14	14:29	

ARC-10 Configurator synchronizes every modification of a database record with the corresponding entry in the ARC-10 memory. In the above illustration, a user's phone number, which was previously edited in the database, is synchronized, by automatically executing the following 3 steps:

1. The erroneous phone number is removed from the device memory (CUD command),
2. The correct phone number is entered (CUN command).
3. If the commands are executed successfully, the edited record is validated, else the editing is cancelled.

System features

- Intuitive entrance access, using a mobile phone.
- Automatic synchronization of the database table with the ARC-10 GSM controller's memory.
- Import capability of a user file in the database table with respective updating of the ARC-10 memory (.csv & .txt files).
- Insert, edit or delete call users (up to 500 entries) or power users (up to 10 entries).
- Complete ARC-10 configuration and online control from within the ARC-10 Configurator application.
- Remote control and device configuration options for qualified personnel, via SMS.
- Enable or disable gate accessibility via SMS.
- Tamper alarm capability via SMS.