

Prepaid Card System



DIAMOX



"A *Voice* Processing Company"

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November 2000

First Edition

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Prepaid Card System Overview

The Prepaid Card System is an Interactive Host Voice Response Prepaid Telephone value-added service for subscribers who wishes to make prepaid pre-determined calls via the PSTN direct distance-dialing network from any touch-tone telephone location within the area of service coverage. This system is a fully automated and non-operator assisted system.

The system also provides callers the convenience in being able to make long distance calls anytime to pre-defined telephone numbers. For the Service Provider, it is revenue generating value-added service that eliminates the risks of unpaid long distance calls.

Among the functionalities are:

- It allows cardholders to place domestic or international long distance call without operator assistance, anytime and any place using a normal telephone set.
- It provides automated non-operator assisted calls by the cardholder.
- It has the capability to process up to 120 simulation calls without operator assistance.
- Designed as disposable and/or rechargeable prepaid calling card.
- It incorporates extensive Back Office management reporting.
- The system's database is initially designed to process up to 100,000 card subscribers and has an expansion capability of up to 99,000,000 cards.
- Designed to operate 24 hours a day, 7 days a week with schedule maintenance of the equipment.

The Prison Prepaid Calling Card System consists of two (2) major sub-systems compliant to digital 2 Mbit E1 interface.

- Voice Response Unit (VRU)
- Back Office System

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Status Transaction Screen

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
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■ - Active Inbound
 ■ - Active Outbound
 ■ - Inactive

Line	Line		Card Number	Time			Telephone Number Called	
	In	Out		Start	Duration	Balance		
1		90	0018365859		17:20:00	00:02:41	00:03:19	5649872
14		15	5621946587		17:21:00	00:01:41	00:04:19	6985624
3		9	0032649521		17:20:56	00:01:45	00:04:15	2316598
4		13	0000654952		17:21:30	00:01:11	00:04:49	2356849
5		5	3264958135		17:20:13	00:02:28	00:03:32	3265984

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About Exit

System Features

The DiaVox Prepaid Calling Card System is a full turn-key stand alone 60/port digital telephone service voice response automation which will be used to provide automated national and international calling services to the card subscriber without operator assistance.

The proposed system has a capacity to process 60 incoming simultaneous calls and 60 outgoing calls to dial the called number. Authorization and access to the network is facilitated through the DiaVox Prepaid Calling Card System. The system's database is initially designed to process up to 100,000 card subscribers and has an expansion capability of up to 99,000,000 cards. The system is also designed to operate at a 24-hour per day, seven days a week and 365 days a year with scheduled maintenance of the equipment.

DiaVox Technologies, Inc., proposes a fully redundant DiaVox Prepaid Card System, a fully integrated voice processing system which is expandable up to 480 ports using industry standard components fully compliant to Bellcore, LSSGR and NEBS standard.

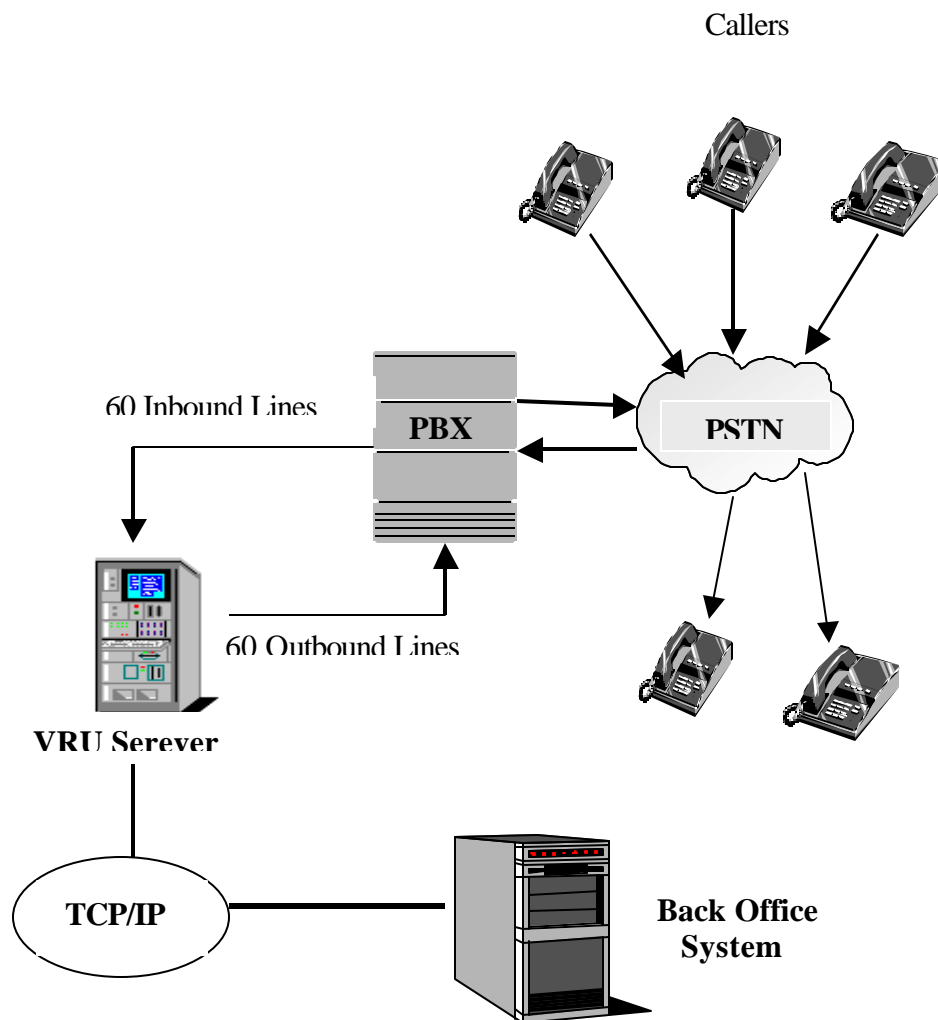
The fully redundant digital E1 Prepaid & Calling Telephone Card System is capable to answer up to will 240 simultaneous calls within a one (1) second time frame without system degradation and proven reliability of its performance in a Central Office environment.

The system consist of multiple Voice Response Unit of 120-Channel capacity per node handling 60 inbound and 60 outbound lines connected to a fully redundant Application Processor Unit responsible for validation, verification and various calculations of required of the system. The "Heart" of the system is the Back Office Processing System, client server-based processor which processes all the management functions, such as card number generation, PIN encryption and decryption process, maintenance of various tariff rates and tables, real time updating of prepaid and calling card balances and various management and performance report generation. The system uses ODBC Adapter to access the system databases.

The back office operation is a networked based system, allowing multiple workstations and connects to the Voice Response Unit (VRU) via an Ethernet LAN using 10base2 connection. This allows the whole system function seamlessly without affecting the real-time processing of callers direct distance dialing. Total management control is performed within this unit, which is our HOST computer. The system administers and maintains the system's databases, tables and report generation.

The system also has the PCS Call Status Display Screen, which provides the information on the Prepaid Card System scenarios as the runtime engine is executing them.

The system also allows speech development to create multi-lingual speeches, prompts or messages. System administration of the Prepaid & Calling Telephone Card System can be done locally or via a remote terminal including the monitoring of the system's performance through its system diagnostics module.



System Requirements

A. Hardware Requirements

1. Computer Equipment

- Server type
- Intel Pentium II 450 Mhz Processor
- 256 MB RAM
- 4 GB Hard Disk
- Network Interface Card (10/100 Mbps)
- 56K Modem
- 2 Serial Ports
- Parallel Port
- 2 ISA Slots for Full-length Cards
- CD-ROM Drive
- Floppy Drive
- VGA Monitor
- Keyboard
- Mouse

2. Network Interface & Voice Line Card:

- D/600SC-2E1

3. Peripheral:

- RJ45 shielded UTP cables to connect Dialogic D/600SC-2E1 card to MD110, 4 pieces
- RJ11 Telephone Cable to connect modem to phone jack
- Software Protection Key

B. Software Requirements

1. Operating System

- SCO UNIX Open Server Release 5.0.5
- Windows NT Server 4 (Service Pack 4)

2. Telephony Network Interface and Voice Line Card Drivers

- Dialogic Release 2 for SCO OpenServer
- Global Call API
- E1/T1 Call Control Library

3. Voice Process run-time engine

- IVRS48 –Server 4 for SCO Unix
- IVRS48 3.30 for NT