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# **Connection Central**

## **Owner's Manual**

Draft B3

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# 1 Introduction

Congratulations on becoming the owner of the Connection Central combined voice & data communications system. You will now be able to access the Internet using your high-speed DSL connection, share your phone connection between fixed & cordless handsets and access the latest in 'Voice over IP' services.

This User Guide will show you how to connect Connection Central gateway, and how to customize its configuration to get the most out of your new product.

## **Conformance**

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This equipment is designed for use in the United States.

This equipment complies with the following standards:

FCC Part 15, Subparts B,C,D  
FCC Part 68  
UL60950

Analog extension ports:	TNV3
CO port:	TNV3
ADSL port:	TNV3
Power fail port	TNV3
LAN/WAN ports	SELV
Doorstrike Port	SELV

## **Important Safety Instructions**

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The following safety information is reprinted from UL60950.

- When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:
- Read and understand all instructions.
- Follow all warnings and instructions marked on the product.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use this product near water (for example, in a wet basement).
- Do not place this product on an unstable cart, stand, or table. The product can fall, causing serious damage to the product.
- Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating; these openings must not be blocked or covered. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.

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- This product should be operated only from the type of power source indicated in the manual. If you are not sure of the type of power source to your building, consult your dealer or local Power Company.
  - The mains power socket outlet must be located near the product and must be easily accessible to allow plugging/unplugging.
  - Do not allow anything to rest on the power cord. Do not locate this product where persons walking on it will abuse the cord.
  - Do not use an extension cord with this product's AC power cord. The AC outlet for this product should not be used for any other electrical equipment.
  - Never push objects of any kind into this product through cabinet slots as they can touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
  - To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified serviceman when some service or repair work is required. Opening or removing covers can expose you to dangerous voltages or other risks. Incorrect re-assembly can cause electric shock when the product is subsequently used.
  - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    - When the power supply cord or plug is damaged or frayed.
    - If liquid has been spilled into the product.
    - If the product has been exposed to rain or water.
    - If the product does not operate normally by following the operating instructions.
    - Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls can result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
    - If the product has been dropped or the cabinet has been damaged.
    - If the product exhibits a distinct change in performance.
  - Avoid using a telephone (other than a cordless type) during an electrical storm. There can be a remote risk of electric shock from lightning.
  - Do not use the telephone to report a gas leak in the vicinity of the leak.

### **Save These Instructions.**

#### **CAUTION**

**Use only 26 AWG line cord or larger for Central Office line connections.**

### **Save These Instructions.**

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## FCC Information

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This equipment complies with Part 68 of the FCC rules and the requirements adopted by ACTA. On the exterior of the cabinet of this equipment is a label that contains, among other information, a product identifier in the format **US:LKCPF01BSIGMA**. If requested, this number must be provided to the telephone company.

- FCC Registration Number: LKCPF01BSIGMA
- Ringer Equivalence Number (REN): 0.1B
- Facility Interface Code (FIC): 02LS2
- Service Order Code (SOC): 9.0Y
- USOC Jack Type: RJ11C

A FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is Part 68 compliant. See Installation Instructions for details.

The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. Typically, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line (as determined by the total RENs) contact the local telephone company.

If this equipment Sigma / Connection Central system causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes to its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice so you can make the necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, Sigma / Connection Central system, for repair or warranty information, please contact Inter-Tel Technical Support Department, 7300 West Boston Street, Chandler, Arizona, 85226, Tel: 1-888-777-EASY (3279). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. (Contact the state public utility commission, public service commission or corporation commission for information.)

This equipment is hearing aid compatible.

## Customer Owned Coin/Credit Card Phones

To comply with state tariffs, the telephone company must be given notification prior to connection. In some states, the state public utility commission, public service commission or corporation commission must give prior approval of connection.

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## Data Equipment

The table below shows which jacks are associated with which modes of operation:

Mode of Operation	USOC Jack
Permissive	RJ11C

## Systems

Facility Interface Codes (FIC), Service Order Codes (SOC), USOC Jack Codes and Ringer Equivalence Numbers (REN) are shown in the table below for each port where applicable:

Port	FIC	SOC	USOC	REN
Line 1	02LS2	9.0Y	RJ11C	0.1B
Line 2	02LS2	9.0Y	RJ11C	0.1B
ADSL	02LS2	9.0Y	RJ11C	0.1B

## Automatic Dialers

WHEN PROGRAMMING EMERGENCY NUMBERS AND(OR) MAKING TEST CALLS TO EMERGENCY NUMBERS:

1. Remain on the line and briefly explain to the dispatcher the reason for the call.
2. Perform such activities in the off-peak hours, such as early morning or late evenings.

## Toll Restriction and Least Cost Routing Equipment

The software contained in Sigma / Connection Central to allow user access to the network must be upgraded to recognize newly established network area codes and exchange codes as they are placed into service.

Failure to upgrade the premises systems or peripheral equipment to recognize the new codes as they are established will restrict the customer and the customer's employees from gaining access to the network and to these codes.

## Equipment with Direct Inward Dialling (DID)

ALLOWING THIS EQUIPMENT TO BE OPERATED IN SUCH A MANNER AS TO NOT PROVIDE FOR PROPER ANSWER SUPERVISION IS A VIOLATION OF PART 68 OF THE FCC'S RULES

PROPER ANSWER SUPERVISION IS WHEN:

- A. This equipment returns answer supervision to the PSTN when DID calls are:
- Answered by the called station
  - Answered by the attendant
  - Routed to a recorded announcement that can be administered by the CPE user.
  - Routed to a dial prompt

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B. This equipment returns answer supervision on all DID calls forwarded to the PSTN.

Permissible exceptions are:

- A call is unanswered
- A busy tone is received
- A reorder tone is received

### **Equal Access Requirements**

This equipment is capable of providing users access to interstate providers of operator services through the use of access codes. Modification of this equipment by call aggregators to block access dialing codes is a violation of the Telephone Operator Consumers Act of 1990.

### **Electrical Safety Advisory**

It is strongly suggested that an AC surge arrestor is installed in the AC outlet to which this equipment is connected.

### **Radio Interference**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **RF Radiation Exposure**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 8 inches (20 centimeters) between the radiator and your body.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

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## **Modifications**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. There are no user-serviceable parts or adjustments inside this equipment - please do not open the equipment case.



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## Features

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The list below contains the main features of the Connection Central and may be useful to users with knowledge of networking protocols. If you are not an experienced user, the chapters throughout this guide will provide you with enough information to get the most out of your Connection Central.

Features include:

- Support for 2 external CO lines & 2 VoIP channels
- Connection of up to 4 wired phone sets
- DECT base station supporting 6 cordless extensions
- Advanced phone system features
- Internal DSL modem for high-speed Internet access
- 10/100Base-T Ethernet router to provide Internet connectivity to all computers on your LAN
- Wireless access via wireless network card and wireless security features
- Network address translation (NAT) functions to provide security for your LAN
- Network configuration through DHCP Server and DHCP Client Services including IP route and DNS configuration, RIP, and IP and DSL performance monitoring
- User-friendly configuration program accessed via a web browser

## Basic Requirements

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In order to use all the features of the Connection Central system, you must have the following:

- DSL service up and running on your telephone line (or an equivalent broadband Internet access)
- Instructions from your ISP on what type of Internet access you will be using, and the addresses needed to set up access
- Instructions from your ISP on the settings required to configure your Voice over IP (VoIP) service.
- One or more computers each containing an ethernet card (10Base-T/100Base-T network interface card (NIC)).

For system configuration using the supplied web-based program: a web browser such as Internet Explorer v4 or later, or Netscape v4 or later. Note that version 4 of each browser is the minimum version requirement – for optimum display quality, use Internet Explorer v5, or Netscape v6.1.



### Note

*You do not need to use a hub or switch in order to connect more than one Ethernet PC to your Connection Central. Instead, you can connect up to four Ethernet PCs directly to your Connection Central using the ports labeled on the rear panel.*

## Using this Document

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### Notational conventions

Acronyms are defined the first time they appear in the text and also in the glossary.

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The term LAN refers to a group of Ethernet-connected computers at one site.  
The term WLAN refers to a group of Wireless-connected computers at one site.

### **Typographical conventions**

Italic text is used for items you select from menus and drop-down lists and the names of displayed web pages.  
Bold text is used for text strings that you type when prompted by the program, and to emphasize important points.

### **Special messages**

This document uses the following icons to draw your attention to specific instructions or explanations.



**Note**

*Provides clarifying or non-essential information on the current topic.*



**Definition**

*Explains terms or acronyms that may be unfamiliar to many readers. These terms are also included in the Glossary.*



**WARNING**

*Provides messages of high importance, including messages relating to personal safety or system integrity.*

## **IMPORTANT NOTICE**

The purpose of this exhibit is to demonstrate that important information has been presented to end-users. In particular, the information at pages 3 and 4 is required in order to comply with UL60950 and the information at pages 5 through 8 is required in order to demonstrate compliance with 47CFR15 and 47CFR68 (FCC Rules Parts 15 and 68).

The remainder of this User Manual has been truncated in order to reduce the size of the document to below the 3MB limit prescribed by the FCC for filing submissions.

If you are an end-user and would like to receive a full manual, free-of-charge, please contact:

Inter-Tel Technical Support Department,  
7300 West Boston Street,  
Chandler,  
Arizona, 85226,  
Tel: 1-888-777-EASY (3279).